

Table D12: Outcomes Table for KQs 3a and 3b

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Oncologic efficacy								
Antonelli, 2011 ⁵⁴	Arm 1(RN-cT1a)	Local recurrence-free survival: n(%)	NA	NR	919	914(99.5)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 2(PN-cT1a)	Local recurrence-free survival: n(%)	NA	NR	1068	1063(99.5)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 3(RN-cT1b)	Local recurrence-free survival: n(%)	NA	NR	1426	1419(99.5)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 4(PN-cT1b)	Local recurrence-free survival: n(%)	NA	NR	198	196(99)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 1(RN-cT1a)	Cancer-specific survival: n(%)	NA	5years	919	NR(94.7)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 2(PN-cT1a)	Cancer-specific survival: n(%)	NA	5years	1068	NR(96.1)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 3(RN-cT1b)	Cancer-specific survival: n(%)	NA	5years	1426	NR(92.6)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 4(PN-cT1b)	Cancer-specific survival: n(%)	NA	5years	198	NR(90)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 1(RN-cT1a)	Cancer-specific survival: n(%)	NA	10years	919	NR(90.4)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 2(PN-cT1a)	Cancer-specific survival: n(%)	NA	10years	1068	NR(94.9)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 3(RN-cT1b)	Cancer-specific survival: n(%)	NA	10years	1426	NR(87)	NA	NR
Antonelli, 2011 ⁵⁴	Arm 4(PN-cT1b)	Cancer-specific survival: n(%)	NA	10years	198	NR(90)	NA	NR
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.65-1.27
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.49-1.41
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.60-1.85
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.44-1.70
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.42-1.43

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Badalato, 1997 ⁵⁶	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NANA	11256		NA	Comp. Arm: RN 95%CI: 0.66-1.48
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Cancer-specific survival: n(%)	NA	5	41	(97.5)	NA	NR>0.1
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Cancer-specific survival: n(%)	NA	5	48	(98.4)	NA	NR>0.1
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	5	41	38(92.7)	NA	NR
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	5	48	48(100)	NA	NR
Bedke, 2008 ⁵⁷	Arm 1(RN)	Cancer-specific survival: n(%)	NA	NR	398	361(90.7)	NA	NR
Bedke, 2008 ⁵⁷	Arm 2(PN)	Cancer-specific survival: n(%)	NA	NR	66	64(97)	NA	NR
Bedke, 2008 ⁵⁷	Overall(7cm or less)	Cancer-specific survival: n(%)	NA	5years	464	(94.1)	NA	NR
Bedke, 2008 ⁵⁷	Overall(7cm or less)	Cancer-specific survival: n(%)	NA	10years	464	(88.7)	NA	NR
Bedke, 2008 ⁵⁷	Overall(7cm or more)	Cancer-specific survival: n(%)	NA	5years	464	(78.4)	NA	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Local recurrence-free survival: n(%)	NA	15mont hs	50	50(100)	NA	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Local recurrence-free survival: n(%)	NA	25.2mo nths	38	37(97.4)	NA	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Local recurrence-free survival: n(%)	NA	15mont hs	50	50(100)	NA	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Local recurrence-free survival: n(%)	NA	25.2mo nths	38	37(97.4)	NA	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Incidence of chronic kidney disease : NR	NA	NR	45	NR(58)	NR	Comp. Arm: Arm 2 P: 0.591
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Incidence of chronic kidney disease : NR	NA	NR	108	NR(31)	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	5	27	NR(92.6)	NA	Comp. Arm: Arm 2 P: 0.493
Chang, 2014 ¹¹⁸	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5	29	NR(96.6)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Cancer-specific survival: n(%)	NA	1years	578	NR(99.4)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 2(PN)	Cancer-specific survival: n(%)	NA	1years	4402	NR(99.6)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Choueiri, 2011 ¹³⁷	Arm 3(RN)	Cancer-specific survival: n(%)	NA	1years	10165	NR(98.9)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Cancer-specific survival: n(%)	NA	2years	578	NR(98)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 2(PN)	Cancer-specific survival: n(%)	NA	2years	4402	NR(99.3)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 3(RN)	Cancer-specific survival: n(%)	NA	2years	10165	NR(98)	NA	NR
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Cancer-specific survival: n(%)	NA	2years	578	NR	NA	Comp. Arm: PN HR: 0.6 95%CI: 0.28 - 1.28 P: 0.2
Crepel, 2010 ⁵⁹	Arm 1(PN)	Cancer-specific survival: n(%)	NA	5years	275	NR(91.4)	NA	Comp. Arm: Arm 2 P: 0.3
Crepel, 2010 ⁵⁹	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5years	1100	NR(95.3)	NA	NR
Daugherty, 2014 ⁶¹	(Radical Nephrectomy)	Cancer-specific survival: n(%)	NA	5	494	NR(99.6)	NA	Comp. Arm: Arm 2 HR: 0.23 95%CI: 0.012-4.66 P: 0.34
Daugherty, 2014 ⁶¹	(Partial Nephrectomy)	Cancer-specific survival: n(%)	NA	5	222	NR(100)	NA	NR
Daugherty, 2014 ⁶¹	(Radical Nephrectomy)	Cancer-specific survival: n(%)	NA	10	494	NR(98.3)	NA	Comp. Arm: Arm 2 HR: 0.25 95%CI: 0.047-1.32 P: 0.1
Daugherty, 2014 ⁶¹	(Partial Nephrectomy)	Cancer-specific survival: n(%)	NA	10	222	NR(100)	NA	NR
Dekljaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	33	33(100)	NA	NR
Dekljaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	52	52(100)	NA	NR
Dekljaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Metastasis-free survival: n(%)	NA	NR	33	33(NR)	NA	NR
Dekljaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Metastasis-free survival: n(%)	NA	NR	52	51(NR)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Incidence of chronic kidney disease : eGFR <60 ml/min	NA	15mont hs	33	(30.3)	NR	NR0.04
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : eGFR <60 ml/min	NA	21mont hs	52	(55.7)	NR	NR0.04
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Incidence of end-stage renal disease: end stage renal disease requiring dialysis	NA	15mont hs	33	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Incidence of end-stage renal disease: end stage renal disease requiring dialysis	NA	21mont hs	52	1	NR	NR
Deklaj, 2010 ¹⁴²	Arm 1(LRN)	Creatinine measure: final eCrCl <60	NA	16.1mo nths	11	NR(100)	NR	Comp. Arm: Arm 2 and 3 P: <0.0005
Deklaj, 2010 ¹⁴²	Arm 2(LPN)	Creatinine measure: final eCrCl <60	NA	28.9mo nths	17	NR(25)	NR	P: <0.0005
Deklaj, 2010 ¹⁴²	Arm 3(LAT)	Creatinine measure: final eCrCl <60	NA	19.3mo nths	11	NR(18.2)	NR	P: <0.0005
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Local recurrence-free survival: n(%)	NA	NR	153	152(99.4)	NA	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Local recurrence-free survival: n(%)	NA	NR	89	87(97)	NA	NR
Emara, 2014 ¹¹³	(Cryoablation)	Local recurrence-free survival: n(%)	NA	mean 31.3m	56	54(96)	NA	NR
Emara, 2014 ¹¹³	(Robot assisted partial nephrectomy)	Local recurrence-free survival: n(%)	NA	mean 16.5m	47	47(100)	NA	NR
Emara, 2014 ¹¹³	(Cryoablation)	Incidence of chronic kidney disease : GFR<60	NA	6 weeks	56	10(21.3)	NR	NR
Emara, 2014 ¹¹³	(Robot assisted partial nephrectomy)	Incidence of chronic kidney disease : GFR<60	NA	6 weeks	47	25(44.6)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneoscopic radical nephrectomy)	Cancer-specific survival: n(%)	NA	Mean followup :	36	35(97)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
				22mont hs				
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Cancer-specific survival: n(%)	NA	Mean followup : 22mont hs	37	36(97)	NA	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Cancer-specific survival: n(%)	NA	Mean followup : 22mont hs	44	43(98)	NA	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneoscopic radical nephrectomy)	Metastasis-free survival: n(%)	NA	Mean followup : 22mont hs	36	36(100)	NA	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Metastasis-free survival: n(%)	NA	Mean followup : 22mont hs	37	34(92)	NA	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Metastasis-free survival: n(%)	NA	Mean followup : 22mont hs	44	43(98)	NA	NR
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Local recurrence-free survival: n(%)	NA	NR	210	210(100)	NA	Comp. Arm: Arm 2 P: <0.0001
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Local recurrence-free survival: n(%)	NA	NR	226	201(88.9)	NA	NR
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Metastasis-free survival: n(%)	NA	NR	210	209(99.5)	NA	Comp. Arm: Arm 2 P: 0.0021
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Metastasis-free survival: n(%)	NA	NR	226	213(94.2)	NA	NR
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Incidence of chronic kidney disease : NR	NA	Last follow upNR	210	26(12.2)	NR	Comp. Arm: Arm 2 P: 0.0002

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Incidence of chronic kidney disease : NR	NA	Last follow upNR	226	38(16.2)	NR	NR
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Incidence of end-stage renal disease: NR	NA	Last follow upNR	210	0(0)	NR	Comp. Arm: Arm 2 P: 0.0009
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Incidence of end-stage renal disease: NR	NA	Last follow upNR	226	11(4.7)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Local recurrence-free survival: n(%)	NA	NR	75	74(98.7)	NA	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Local recurrence-free survival: n(%)	NA	NR	92	90(97.8)	NA	NR
Houston, 2009 ⁶²	Arm 1(RN)	Cancer-specific survival: n(%)	NA	NR	873	583(66.8)	NA	NR
Houston, 2009 ⁶²	Arm 2(PN)	Cancer-specific survival: n(%)	NA	NR	286	231(80.8)	NA	NR
Huang, 2006 ⁶³	Arm 1(GFR>60 partial)	Incidence of chronic kidney disease : freedom from new onset	NA	3year	287	NR(80)	95%CI: 73-85 P: NR	NR
Huang, 2006 ⁶³	Arm 1(GFR>60 partial)	Incidence of chronic kidney disease : freedom from new onset	NA	5year	287	NR(67)	95%CI: 57-75 P: NR	NR
Huang, 2006 ⁶³	Arm 2(GFR>60 radical)	Incidence of chronic kidney disease : freedom from new onset	NA	3year	204	NR(35)	95%CI: 28-43 P: NR	NR
Huang, 2006 ⁶³	Arm 2(GFR>60 radical)	Incidence of chronic kidney disease : freedom from new onset	NA	5year	204	NR(23)	95%CI: 16-30 P: NR	Comp. Arm: Arm 1 HR: 3.82 95%CI: 2.75-5.32 P: <0.0001
Huang, 2006 ⁶³	Arm 3(GFR>45 partial)	Incidence of chronic kidney disease : freedom from new onset	NA	3year	385	NR(95)	95%CI: 91-98 P: NR	NR
Huang, 2006 ⁶³	Arm 3(GFR>45 partial)	Incidence of chronic kidney disease :	NA	5year	385	NR(93)	95%CI: 87-96 P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		freedom from new onset						
Huang, 2006 ⁶³	Arm 4(GFR>45 radical)	Incidence of chronic kidney disease : freedom from new onset	NA	3year	262	NR(64)	95%CI: 56-70 P: NR	NR
Huang, 2006 ⁶³	Arm 4(GFR>45 radical)	Incidence of chronic kidney disease : freedom from new onset	NA	5year	262	NR(57)	95%CI: 50-64 P: NR	Comp. Arm: Arm 3 HR: 11.8 95%CI: 6.24- 22.4 P: <0.0001
Huang, 2009 ⁶⁴	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NR	556	548(98.6)	NA	NR
Huang, 2009 ⁶⁴	Arm 2(RN)	Cancer-specific survival: n(%)	NA	NR	2435	2336(96)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	67	NR(95)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	195	NR(100)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	324	NR(99)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Metastasis-free survival: n(%)	NA	NR	67	NR(93)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Metastasis-free survival: n(%)	NA	NR	195	NR(86)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Metastasis-free survival: n(%)	NA	NR	324	NR(98)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Cancer-specific survival: n(%)	NA	NR	67	NR(99)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Cancer-specific survival: n(%)	NA	NR	195	NR(92)	NA	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Cancer-specific survival: n(%)	NA	NR	324	NR(99)	NA	NR
Indudhara, 1997 ⁴⁷	Arm 1(nephron sparing surgery)	Metastasis-free survival: n(%)	NA	3.1	35	34	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								SE: NA SD: NA P: NA
Indudhara, 1997 ⁴⁷	Arm 2(radical nephrectomy)	Metastasis-free survival: n(%)	NA	3.9	71	71(1)	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara, 1997 ⁴⁷	Arm 1(nephron sparing surgery)	Cancer-specific survival: n(%)	NA	3.1	35	35(1)	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara, 1997 ⁴⁷	Arm 2(radical nephrectomy)	Cancer-specific survival: n(%)	NA	3.9	71	71(1)	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara, 1997 ⁴⁷	Arm 1(nephron sparing surgery)	Local recurrence-free survival: n(%)	NA	3.1	35	34(0.971428571 428571)	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara, 1997 ⁴⁷	Arm 2(radical nephrectomy)	Local recurrence-free survival: n(%)	NA	3.9	71	71(1)	NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								SE: NA SD: NA P: NA
Janetschek, 2000 ¹⁰⁰	Arm 1(Wedge-resection)	Local recurrence-free survival: n(%)	NA	1	25	0(0)	NA	NR
Janetschek, 2000 ¹⁰⁰	Arm 2(Laparoscopic radical nephrectomy)	Local recurrence-free survival: n(%)	NA	1	73	0(0)	NA	NR
Jeon, 2009 ¹⁰⁹	Arm 1(PN)	Incidence of chronic kidney disease : CKD	NA	35mont hs	96	11(11.5)	NR	Comp. Arm: Arm 2 HR: 0.11 95%CI: 0.06- 0.22 P: <0.001
Jeon, 2009 ¹⁰⁹	Arm 2(RN)	Incidence of chronic kidney disease : CKD	NA	35mont hs	129	86(66.7)	NR	NR
Jeon, 2009 ¹⁰⁹	Arm 1(PN)	Incidence of chronic kidney disease : freedom from CKD	NA	2years	96	NR(95.7)	NR	Comp. Arm: Arm 2 P: <0.01
Jeon, 2009 ¹⁰⁹	Arm 2(RN)	Incidence of chronic kidney disease : freedom from CKD	NA	2years	129	NR(58.3)	NR	Comp. Arm: Arm 1 P: <0.01
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Incidence of chronic kidney disease : NR	NA	NR	211	40(19)	NR	Comp. Arm: Arms 2 - 5 P: <0.001
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Incidence of chronic kidney disease : NR	NA	NR	160	28(17.5)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Incidence of chronic kidney disease : NR	NA	NR	330	74(23)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Incidence of chronic kidney disease : NR	NA	NR	535	191(35.6)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Incidence of chronic kidney disease : NR	NA	NR	404	138(33.9)	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	59	59(100)	NA	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	59	59(100)	NA	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Metastasis-free survival: n(%)	NA	NR	59	59(100)	NA	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Metastasis-free survival: n(%)	NA	NR	59	59(100)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Local recurrence-free survival: n(%)	NA	NR	NR	NR(83)	NA	Comp. Arm: Arm 2 P: 0.015
Klatte, 2011 ¹²⁸	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	NR	NR	NR(100)	NA	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Metastasis-free survival: n(%)	NA	NR	NR	0(100)	NA	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Metastasis-free survival: n(%)	NA	NR	NR	0(100)	NA	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Cancer-specific survival: n(%)	NA	NR	NR	0(100)	NA	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Cancer-specific survival: n(%)	NA	NR	NR	0(100)	NA	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Incidence of chronic kidney disease : NR	NA	3months	41	4(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Incidence of chronic kidney disease : NR	NA	3months	82	2(NR)	NR	NR
Kopp, 2014 ⁶⁶	Arm 1(RN)	Cancer-specific survival: n(%)	NA	5	122	NR(82.5)	NA	Comp. Arm: Arm 2 P: 0.407
Kopp, 2014 ⁶⁶	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5	80	NR(86.7)	NA	NR
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Cancer-specific survival: n(%)	NA		82	3(3.7)	NA	NR0.279
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Cancer-specific survival: n(%)	NA		53	0(0)	NA	NR
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Metastasis-free survival: n(%)	NA		82	5(6.1)	NA	NR0.403
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Metastasis-free survival: n(%)	NA		53	1(1.9)	NA	NR
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Incidence of chronic kidney disease : Newly diagnosed CKD after surgery	NA	NR	82	23(28.3)	NR	NR
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Incidence of chronic kidney disease : Newly diagnosed CKD after surgery	NA	NR	53	10(18.4)	NR	NR
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Incidence of chronic kidney disease : CKD>3	NA	NR	82	58(70.7)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Incidence of chronic kidney disease : CKD>3	NA	NR	53	23(43.4)	NR	NR
Lane, 2010 ⁶⁸	Arm 1(PN Limited ischemia)	Cancer-specific survival: n(%)	NA	5years	804	NR(98.7)	NA	NR
Lane, 2010 ⁶⁸	Arm 2(PN Unknown ischemia)	Cancer-specific survival: n(%)	NA	5years	546	NR(99)	NA	NR
Lane, 2010 ⁶⁸	Arm 3(PN Extended ischemia)	Cancer-specific survival: n(%)	NA	5years	483	NR(99.1)	NA	NR
Lane, 2010 ⁶⁸	Arm 4(RN)	Cancer-specific survival: n(%)	NA	5years	569	NR(93.8)	NA	Comp. Arm: all PN P: <0.001
Lane, 2010 ⁶⁸	Arm 1(PN Limited ischemia)	Incidence of end-stage renal disease: eGFR<15ml/min/1.73 m ²	NA	last follow upNA	804	NR(0.3)	NR	NR
Lane, 2010 ⁶⁸	Arm 2(PN Unknown ischemia)	Incidence of end-stage renal disease: eGFR<15ml/min/1.73 m ²	NA	last follow upNA	546	NR(0.9)	NR	NR
Lane, 2010 ⁶⁸	Arm 3(PN Extended ischemia)	Incidence of end-stage renal disease: eGFR<15ml/min/1.73 m ²	NA	last follow upNA	483	NR(1.1)	NR	NR
Lane, 2010 ⁶⁸	Arm 4(RN)	Incidence of end-stage renal disease: eGFR<15ml/min/1.73 m ²	NA	last follow upNA	569	NR(1.8)	NR	NR
Lane, 2010 ⁶⁸	Arm 1(PN Limited ischemia)	Incidence of chronic kidney disease : <45	NA	last follow up	804	(11)	NR	NR
Lane, 2010 ⁶⁸	Arm 2(PN Unknown ischemia)	Incidence of chronic kidney disease : <45	NA	last follow up	546	(15)	NR	NR
Lane, 2010 ⁶⁸	Arm 3(PN Extended ischemia)	Incidence of chronic kidney disease : <45	NA	last follow up	483	(19)	NR	NR
Lane, 2010 ⁶⁸	Arm 4(RN)	Incidence of chronic kidney disease : <45	NA	last follow up	569	(35)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Cancer-specific survival: n(%)	NA	5years	105	NR(94.2)	NA	Comp. Arm: Arm 2 P: 0.33
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Cancer-specific survival: n(%)	NA	5years	146	NR(90.7)	NA	NR
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Local recurrence-free survival: n(%)	NA	NRyears	105	64(61)	NA	NR
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Local recurrence-free survival: n(%)	NA	NRyears	146	105(72)	NA	NR
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Metastasis-free survival: n(%)	NA	NRyears	105	64(61)	NA	NR
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Metastasis-free survival: n(%)	NA	NRyears	146	104(71.3)	NA	NR
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Incidence of chronic kidney disease : CKD stage \geq 3	NA	NR	52	3(5.8)	NR	NR
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Incidence of chronic kidney disease : CKD stage \geq 3	NA	NR	89	68(76.4)	NR	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Local recurrence-free survival: n(%)	NA	NR	35	35(100)	NA	NR
Li, 2007 ⁶⁹	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	NR	128	NR	NA	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Metastasis-free survival: n(%)	NA	NR	35	35(100)	NA	NR
Li, 2007 ⁶⁹	Arm 2(RN)	Metastasis-free survival: n(%)	NA	NR	128	NR	NA	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NR	35	35(100)	NA	NR
Li, 2007 ⁶⁹	Arm 2(RN)	Cancer-specific survival: n(%)	NA	NR	128	115(89.8)	NA	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	40mont hs	86	80	NA	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	44mont hs	85	83	NA	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Local recurrence-free survival: n(%)	NA	26mont hs	71	71	NA	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Metastasis-free survival: n(%)	NA	40mont hs	86	86	NA	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Metastasis-free survival: n(%)	NA	44mont hs	85	85	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Lucas, 2007 ¹³⁸	Arm 3(RN)	Metastasis-free survival: n(%)	NA	26mont hs	71	69	NA	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	40mont hs	86	80	NA	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	44mont hs	85	83	NA	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Local recurrence-free survival: n(%)	NA	26mont hs	71	71	NA	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Metastasis-free survival: n(%)	NA	40mont hs	86	86	NA	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Metastasis-free survival: n(%)	NA	44mont hs	85	85	NA	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Metastasis-free survival: n(%)	NA	26mont hs	71	69	NA	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Incidence of chronic kidney disease : CKD-3	NA	22mont hs	36	18(NR)	NR	Comp. Arm: 2 and 3 P: <0.001
Lucas, 2007 ¹³⁸	Arm 2(PN)	Incidence of chronic kidney disease : CKD-3	NA	24mont hs	48	9(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Incidence of chronic kidney disease : CKD-3	NA	45.5months	50	1(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	86	1(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	85	1(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	71	2(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Incidence of chronic kidney disease : CKD-3	NA	22mont hs	36	18(NR)	NR	Comp. Arm: 2 and 3 P: <0.001
Lucas, 2007 ¹³⁸	Arm 2(PN)	Incidence of chronic kidney disease : CKD-3	NA	24mont hs	48	9(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Incidence of chronic kidney disease : CKD-3	NA	45.5months	50	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Lucas, 2007 ¹³⁸	Arm 1(RFA)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	86	1(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 2(PN)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	85	1(NR)	NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN)	Incidence of end-stage renal disease: Need for dialysis	NA	NR	71	2(NR)	NR	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Metastasis-free survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Metastasis-free survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Cancer-specific survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Cancer-specific survival: n(%)	NA	NR	44	44(100)	NA	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Incidence of chronic kidney disease : Development of new-onset CKD	NA	6 months	44	9(20)	NR	NR
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : Development of new-onset CKD	NA	6 months	44	20(43)	NR	NR
McKiernan, 2002 ⁷²	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	5	117	1(96.4)	NA	NR>0.05
McKiernan, 2002 ⁷²	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	5	173	2(98.6)	NA	NR>0.05
McKiernan, 2002 ⁷²	Arm 1(Partial nephrectomy)	Incidence of chronic kidney disease : Renal Failure	NA	3 years	117	NR(0)	NR	NR
McKiernan, 2002 ⁷²	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : Renal Failure	NA	3 years	173	NR(0.1)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
McKiernan, 2002 ⁷²	Arm 1(Partial nephrectomy)	Incidence of chronic kidney disease : Renal Failure	NA	5 years	117	0(0)	NR	NR
McKiernan, 2002 ⁷²	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : Renal Failure	NA	5 years	173	16(0.15)	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(Radical nephrectomy)	Cancer-specific survival: n(%)	NA	48mont hs	174	120	NA	NR
Medina-Polo, 2011 ⁷³	Overall(Overall)	Local recurrence-free survival: n(%)	NA	48mont hs	245	239	NA	NR
Medina-Polo, 2011 ⁷³	Overall(Overall)	Metastasis-free survival: n(%)	NA	48mont hs	245	224	NA	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	48mont hs	116	98	NA	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS)	Incidence of chronic kidney disease : mild renal failure (<60 ml/min/1.73m ²)	NA	4years	86	28(32.6)	NR	NR0.002
Medina-Polo, 2011 ⁷³	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : mild renal failure (<60 ml/min/1.73m ²)	NA	4years	132	75(56.8)	NR	NR0.002
Medina-Polo, 2011 ⁷³	Arm 1(NSS)	Incidence of chronic kidney disease : moderate renal failure (<40 ml/min/1.73m ²)	NA	4years	86	3(14.4)	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : moderate renal failure (<40 ml/min/1.73m ²)	NA	4years	132	19(3.4)	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS)	Incidence of chronic kidney disease : periodical dialysis	NA	4years	86	1(NR)	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(Radical nephrectomy)	Incidence of chronic kidney disease : periodical dialysis	NA	4years	132	4(NR)	NR	NR
Meskawi, 2014 ⁷⁴	Arm 1(PN)	Cancer-specific survival: n(%)	NA	5year	6104	(4.4)	NA	NR
Meskawi, 2014 ⁷⁴	Arm 1(RN)	Cancer-specific survival: n(%)	NA	10year	6104	(6.1)	NA	NR0.03

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Meskawi, 2014 ⁷⁴	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5year	1526	(6)	NA	NR
Meskawi, 2014 ⁷⁴	Arm 2(RN)	Cancer-specific survival: n(%)	NA	10year	1526	(10.4)	NA	Comp. Arm: PN 95%CI: 0.65-1.26 P: 0.6
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	5	34	NR(97.1)	NA	NR
Milonas, 2013 ⁵⁰	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5	317	NR(80.9)	NA	NR
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	7	34	NR(80.6)	NA	NR
Milonas, 2013 ⁵⁰	Arm 2(RN)	Cancer-specific survival: n(%)	NA	7	317	NR(76.4)	NA	NR
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	12	34	NR(80.6)	NA	Comp. Arm: Arm 2 P: 0.198
Milonas, 2013 ⁵⁰	Arm 2(RN)	Cancer-specific survival: n(%)	NA	12	317	NR(69.6)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN)	Local recurrence-free survival: n(%)	NA	NR	143	143(100)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 2(TE)	Local recurrence-free survival: n(%)	NA	NR	332	329(99.1)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN)	Cancer-specific survival: n(%)	NA	5years	143	NR(92.1)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE)	Cancer-specific survival: n(%)	NA	5years	332	NR(94.4)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN)	Cancer-specific survival: n(%)	NA	10years	143	NR(89.4)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE)	Cancer-specific survival: n(%)	NA	10years	332	NR(94.4)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN- Fuhrman Grade 1-2)	Cancer-specific survival: n(%)	NA	6years	NR	NR(98.5)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE- Fuhrman Grade 1-2)	Cancer-specific survival: n(%)	NA	6years	NR	NR(96.8)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN- Fuhrman Grade 3)	Cancer-specific survival: n(%)	NA	6years	NR	NR(84.8)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE- Fuhrman Grade 3)	Cancer-specific survival: n(%)	NA	6years	NR	NR(83.1)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN- Fuhrman Grade 4)	Cancer-specific survival: n(%)	NA	6years	NR	NR(20.8)	NA	Comp. Arm: Arm 2 P: NS

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Minervini, 2012 ¹⁰⁸	Arm 2(TE-Fuhrman Grade 4)	Cancer-specific survival: n(%)	NA	6years	NR	NR(0)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN-pT1a)	Cancer-specific survival: n(%)	NA	10years	NR	NR(92.2)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE-pT1a)	Cancer-specific survival: n(%)	NA	10years	NR	NR(95.1)	NA	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN-pT1b)	Cancer-specific survival: n(%)	NA	10years	NR	NR(87.6)	NA	Comp. Arm: Arm 2 P: NS
Minervini, 2012 ¹⁰⁸	Arm 2(TE-pT1a)	Cancer-specific survival: n(%)	NA	10years	NR	NR(90.5)	NA	NR
Mitchell, 2005 ⁷⁵	Arm 1(PN)	Local recurrence-free survival: n(%)	NA	5year	33	NR(93.5)	NA	P: 0.471
Mitchell, 2005 ⁷⁵	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	5year	66	NR(83.3)	NA	NR
Mitchell, 2005 ⁷⁵	Arm 1(PN)	Cancer-specific survival: n(%)	NA	5year	33	NR(96.2)	NA	P: 0.893
Mitchell, 2005 ⁷⁵	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5year	66	NR(97.8)	NA	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Incidence of chronic kidney disease : Stage 1	NA	3months	50	1(2)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Incidence of chronic kidney disease : Stage 1	NA	3months	62	1(2)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Incidence of chronic kidney disease : Stage 2	NA	3months	50	10(20)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Incidence of chronic kidney disease : Stage 2	NA	3months	62	14(23)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Incidence of chronic kidney disease : Stage 2	NA	3months	50	36(72)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Incidence of chronic kidney disease : Stage 3	NA	3months	62	40(65)	NR	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Incidence of chronic kidney disease : Stage 4	NA	3months	50	3(6)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Incidence of chronic kidney disease : Stage 4	NA	3months	62	7(11)	NR	NR
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Incidence of end-stage renal disease: Chronic renal failure	NA	60 months	152	1(0.00657894736842105)	NR	NR
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Incidence of end-stage renal disease: Chronic renal failure	NA	60 months	59	0(0)	NR	NR
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Glomerular filtration rate decline: GFR<60	NA	NR	152	117(77)	NR	Comp. Arm: PN 0.068 RD: 95%CI: 0.029-0.158 <0.001
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Glomerular filtration rate decline: GFR<60	NA	NR	59	35(23)	NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Local recurrence-free survival: n(%)	NA	31months	98	3(3.1)	NA	Comp. Arm: Partial Nephrectomy P: 0.25
Mues, 2012 ¹²⁰	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	24months	100	0(0)	NA	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Local recurrence-free survival: n(%)	NA	31months	98	7(7.1)	NA	Comp. Arm: Partial Nephrectomy P: 0.04
Mues, 2012 ¹²⁰	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	24months	100	3(3)	NA	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Local recurrence-free survival: n(%)	NA	31months	98	10(10.2)	NA	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	24months	100	3(3)	NA	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Metastasis-free survival: n(%)	NA	31months	98	2(2)	NA	P: 0.33
Mues, 2012 ¹²⁰	Arm 2(PN)	Metastasis-free survival: n(%)	NA	24months	100	1(1)	NA	NR
Mues, 2012 ¹²⁰	Overall(Ablation + PN)	Incidence of chronic kidney disease : eGFR<60 ml/min/1.73 m ²	NA	3months	84	19(23)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Mues, 2012 ¹²⁰	Overall(Ablation + PN)	Incidence of end-stage renal disease: eGFR<15 ml/min/1.73 m ²	NA	NR	84	1(1.2)	NR	NR
Mues, 2012 ¹²⁰	Overall(Ablation + PN)	Incidence of chronic kidney disease : eGFR<60 ml/min/1.73 m ²	NA	12mont hs	84	15(18)	NR	NR
Olweny, 2012 ¹²⁵	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	5years	37	NR(91.7)	NA	NR
Olweny, 2012 ¹²⁵	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	5years	37	NR(94.6)	NA	NR
Olweny, 2012 ¹²⁵	Arm 1(RFA)	Metastasis-free survival: n(%)	NA	5years	37	NR(97.2)	NA	NR
Olweny, 2012 ¹²⁵	Arm 2(PN)	Metastasis-free survival: n(%)	NA	5years	37	NR(91.8)	NA	NR
Olweny, 2012 ¹²⁵	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	5years	37	NR(97.2)	NA	NR
Olweny, 2012 ¹²⁵	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5years	37	NR(100)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Cancer-specific survival: n(%)	NA	3years	48	48(100)	NA	Comp. Arm: Arm 2 P: <0.05
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Cancer-specific survival: n(%)	NA	3years	30	NR(93)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Cancer-specific survival: n(%)	NA	5years	48	48(100)	NA	Comp. Arm: Arm 2 P: <0.05
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Cancer-specific survival: n(%)	NA	5years	30	NR(88)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Local recurrence-free survival: n(%)	NA	3years	48	48(100)	NA	Comp. Arm: Arm 2 P: <0.05
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Local recurrence-free survival: n(%)	NA	3years	30	NR(92)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Local recurrence-free survival: n(%)	NA	5years	48	48(100)	NA	Comp. Arm: Arm 2 P: <0.05

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Local recurrence-free survival: n(%)	NA	5years	30	NR(86)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Metastasis-free survival: n(%)	NA	NRyears	48	47(97.9)	NA	Comp. Arm: Arm 2 P: 0.05
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Metastasis-free survival: n(%)	NA	NRyears	30	26(96.7)	NA	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Incidence of end-stage renal disease: Permanent dialysis	NA	NR	48	2(4.2)	NR	Comp. Arm: Arm 2 P: 0.263
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic cryoablation)	Incidence of end-stage renal disease: Permanent dialysis	NA	NR	30	0(0)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Incidence of chronic kidney disease : CKD Stage Increase	NA	NR	48	19(39.5)	NR	Comp. Arm: Arm 2 P: 0.01
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic cryoablation)	Incidence of chronic kidney disease : CKD Stage Increase	NA	NR	30	4(13.3)	NR	NR
Patard, 2004 ⁷⁷	Arm 1(PN-T1a)	Local recurrence-free survival: n(%)	NA	42months	544	NR(99.2)	NA	Comp. Arm: PNT1b P: 0.2
Patard, 2004 ⁷⁷	Arm 2(RN T1a)	Local recurrence-free survival: n(%)	NA	42months	544	NR(99.4)	NA	Comp. Arm: RNT1b P: 0.001
Patard, 2004 ⁷⁷	Arm 3(PN-T1b)	Local recurrence-free survival: n(%)	NA	42months	544	NR(96.4)	NA	NR
Patard, 2004 ⁷⁷	Arm 4(RN T1b)	Local recurrence-free survival: n(%)	NA	42months	544	NR(97.7)	NA	NR
Patard, 2004 ⁷⁷	Arm 1(PN-T1a)	Cancer-specific survival: n(%)	NA	51months	314	307(97.8)	NA	Comp. Arm: All T1a: PN v RN P: 0.7
Patard, 2004 ⁷⁷	Arm 2(RN T1a)	Cancer-specific survival: n(%)	NA	51months	499	486(97.4)	NA	NR
Patard, 2004 ⁷⁷	Arm 3(PN-T1b)	Cancer-specific survival: n(%)	NA	51months	65	61(93.8)	NA	Comp. Arm: All T1b: PN v RN P: 0.8
Patard, 2004 ⁷⁷	Arm 4(RN T1b)	Cancer-specific survival: n(%)	NA	51months	576	524(91)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Cancer-specific survival: n(%)	NA	1	754	NR(95.9)	NA	NR
Patel, 2014 ¹³¹	Arm 2(PN)	Cancer-specific survival: n(%)	NA	1	1849	NR(99.6)	NA	NR
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management <75 years)	Cancer-specific survival: n(%)	NA	5	754	NR	NA	Comp. Arm: Arm 2 HR: 0.64 95%CI: 0.28 to - 1.46 P: 0.29
Patel, 2014 ¹³¹	Arm 2(PN<75 years)	Cancer-specific survival: n(%)	NA	5	1849	NR	NA	Comp. Arm: Arm 3 HR: 0.75 95%CI: 0.45 - 1.26 P: 0.28
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management 75-<80years)	Cancer-specific survival: n(%)	NA	5	754	NR	NA	Comp. Arm: Arm 2 HR: 0.27 95%CI: 0.12 to - 0.58 P: <0.01
Patel, 2014 ¹³¹	Arm 3(RN>/=80years)	Cancer-specific survival: n(%)	NA	5	4574	NR	NA	Comp. Arm: Arm 1 HR: 0.68 95%CI: 0.45 - 1.04 P: 0.08
Patel, 2014 ¹³²	Arm 1(DT(Deferred Treatmet)-Low Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	754	NR(78)	NA	NR
Patel, 2014 ¹³²	Arm 3(RN-Low Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	4574	NR(91)	NA	Comp. Arm: Arm 2 HR: 0.55 95%CI: 0.39 - 0.79 P: <0.01

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Patel, 2014 ¹³²	Arm 2(PN-High Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	1849	NR(87)	NA	Comp. Arm: Arm 1 HR: 0.59 95%CI: 0.25 - 1.41 P: 0.23
Patel, 2014 ¹³²	Arm 2(PN-Low Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	1849	NR(94)	NA	Comp. Arm: Arm 1 HR: 0.33 95%CI: 0.2 - 0.53 P: <0.01
Patel, 2014 ¹³²	Arm 1(DT(Deferred Treatmet)-High Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	754	NR(78)	NA	NR
Patel, 2014 ¹³²	Arm 3(RN-High Cardiovascular risk)	Cancer-specific survival: n(%)	NA	100 months	4574	NR(78)	NA	Comp. Arm: Arm 2 HR: 0.42 95%CI: 0.46 - 1.43 P: 0.47
Patel, 2014 ¹³¹	Arm 3(RN)	Cancer-specific survival: n(%)	NA	1	4574	NR(99.2)	NA	NR
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Cancer-specific survival: n(%)	NA	3	754	NR(89.4)	NA	NR
Patel, 2014 ¹³¹	Arm 2(PN)	Cancer-specific survival: n(%)	NA	3	1849	NR(98.1)	NA	NR
Patel, 2014 ¹³¹	Arm 3(RN)	Cancer-specific survival: n(%)	NA	3	4574	NR(96.5)	NA	NR
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Cancer-specific survival: n(%)	NA	5	754	NR(82.5)	NA	Comp. Arm: Arm 2 HR: 0.42 95%CI: 0.27 - 0.64 P: <0.01
Patel, 2014 ¹³¹	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5	1849	NR(96.7)	NA	Comp. Arm: Arm 3 HR: 0.67

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								95%CI: 0.47 - 0.95 P: 0.03
Patel, 2014 ¹³¹	Arm 3(RN)	Cancer-specific survival: n(%)	NA	5	4574	NR(93.5)	NA	Comp. Arm: Arm 1 HR: 0.62 95%CI: 0.46 - 0.85 P: <0.01
Patel, 2014 ¹³¹	Arm 3(RN<75 years)	Cancer-specific survival: n(%)	NA	5	4574	NR	NA	Comp. Arm: Arm 1 HR: 0.86 95%CI: 0.42 - 1.74 P: 0.67
Patel, 2014 ¹³¹	Arm 2(PN75-<80years)	Cancer-specific survival: n(%)	NA	5	1849	NR	NA	Comp. Arm: Arm 3 HR: 0.66 95%CI: 0.34 - 1.30 P: 0.23
Patel, 2014 ¹³¹	Arm 3(RN75-<80years)	Cancer-specific survival: n(%)	NA	5	4574	NR	NA	Comp. Arm: Arm 1 HR: 0.4 95%CI: 0.22 - 0.73 P: <0.01
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management>=80 years)	Cancer-specific survival: n(%)	NA	5	754	NR	NA	Comp. Arm: Arm 2 HR: 0.41 95%CI: 0.19 to - 0.91 P: 0.03
Patel, 2014 ¹³¹	Arm 2(PN>=80years)	Cancer-specific survival: n(%)	NA	5	1849	NR	NA	Comp. Arm: Arm 3 HR: 0.6 95%CI: 0.29 - 1.26 P: 0.18
O'Malley,2014 ⁹⁷	Arm 1(PN)	Cancer-specific survival: n(%)	NA	5Years	1893	NR(93)	NA	P: <0.001
O'Malley,2014 ⁹⁷	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5Years	10864	NR(86)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Cooper, 2015 ¹⁴¹	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	NR	9	7(78)	NA	NR
Cooper, 2015 ¹⁴¹	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	NR	9	8(89)	NA	NR
Cooper, 2015 ¹⁴¹	Arm 3(RN)	Local recurrence-free survival: n(%)	NA	NR	31	31(100)	NA	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	5years	27	NR(92.6)	NA	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5years	29	NR(96.6)	NA	NR
Chung, 2014 ⁹⁴	Arm 1(RN(>/=65years))	Cancer-specific survival: n(%)	NA	5years	170	NR(96.6)	NA	NR
Chung, 2014 ⁹⁴	Arm 2(PN(>/=65years))	Cancer-specific survival: n(%)	NA	5years	170	NR(99.6)	NA	NR
Chung, 2014 ⁹⁴	Arm 3(RN(<65years))	Cancer-specific survival: n(%)	NA	5years	452	NR(99)	NA	NR
Chung, 2014 ⁹⁴	Arm 4(PN(<65years))	Cancer-specific survival: n(%)	NA	5years	452	NR(100)	NA	NR
Chung, 2014 ⁹⁴	Arm 1(RN(>/=65years))	Local recurrence-free survival: n(%)	NA	5years	170	NR(93)	NA	NR
Chung, 2014 ⁹⁴	Arm 2(PN(>/=65years))	Local recurrence-free survival: n(%)	NA	5years	170	NR(94)	NA	NR
Chung, 2014 ⁹⁴	Arm 3(RN(<65years))	Local recurrence-free survival: n(%)	NA	5years	452	NR(97)	NA	NR
Chung, 2014 ⁹⁴	Arm 4(PN(<65years))	Local recurrence-free survival: n(%)	NA	5years	452	NR(95.7)	NA	NR
Renal Functional Outcomes Categorical								
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Cancer-specific survival: n(%)	NA	Median 4.18Years	32	31	NA	NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Cancer-specific survival: n(%)	NA	Median 4.8 yearsYears	36	34	NA	NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy)	Cancer-specific survival: n(%)	NA	Median 7.81Years	37	35	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	(NSS), for young (<55 years old))							
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Cancer-specific survival: n(%)	NA	NRYear s	39	38	NA	NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Incidence of chronic kidney disease : eGFR <60 ml/min/1.73m ²	NA	>30 days	36	2(5.6)	NR	Between arm1 and arm2, p=0.009, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Incidence of chronic kidney disease : eGFR <60 ml/min/1.73m ²	NA	>30 days	45	14(31.1)	NR	Between arm1 and arm2, p=0.009, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Incidence of chronic kidney disease : eGFR <60 ml/min/1.73m ²	NA	>30 days	33	8(24.2)	NR	Between arm3 and arm4, p<0.001, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Incidence of chronic kidney disease : eGFR <60 ml/min/1.73m ²	NA	>30 days	55	28(50.9)	NR	Between arm3 and arm4, p<0.001, between young and old, p=NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Local recurrence-free survival: n(%)	NA	NR	101	99(98)	NA	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	NR	146	145(99.3)	NA	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Metastasis-free survival: n(%)	NA	NR	101	94(93.1)	NA	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Metastasis-free survival: n(%)	NA	NR	146	136(93.8)	NA	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	5years	101	NR(94)	NA	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5years	146	NR(97)	NA	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	10years	101	NR(91)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2012 ⁵¹	Arm 2(RN)	Cancer-specific survival: n(%)	NA	10years	146	NR(95)	NA	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Cancer-specific survival: n(%)	NA	4.7years	16	16(100)	NA	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor >7cm))	Cancer-specific survival: n(%)	NA	2.3years	28	2(92.9)	NA	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Incidence of chronic kidney disease : stage 3 ckd	NA	4.86 years	101	14(13.8)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Incidence of chronic kidney disease : stage 3 ckd	NA	6.48 years	146	62(42.5)	NR	NR
Scosyrev, 2014 ⁷⁸	Arm 1(RN)	Incidence of chronic kidney disease : eGFR<60	NA	6.7years	259	222(85.7)	NR	Comp. Arm: NSS RD: 21 95%CI: 13.8-28.3 P: <0.001
Scosyrev, 2014 ⁷⁸	Arm 2(NSS)	Incidence of chronic kidney disease : eGFR<60	NA	6.7years	255	165(64.7)	NR	NR
Scosyrev, 2014 ⁷⁸	Arm 1(RN)	Incidence of chronic kidney disease : eGFR<45	NA	6.7years	259	127(49)	NR	Comp. Arm: RD: 21.9 95%CI: 13.8-30.2
Scosyrev, 2014 ⁷⁸	Arm 2(NSS)	Incidence of chronic kidney disease : eGFR<45	NA	6.7years	255	69(27.1)	NR	NR
Scosyrev, 2014 ⁷⁸	Arm 1(RN)	Incidence of chronic kidney disease : eGFR<30	NA	6.7years	259	26(10)	NR	Comp. Arm: RD: 3.7 95%CI: (-1.0-8.5)
Scosyrev, 2014 ⁷⁸	Arm 2(NSS)	Incidence of chronic kidney disease : eGFR<30	NA	6.7years	255	16(6.3)	NR	NR
Scosyrev, 2014 ⁷⁸	Arm 1(RN)	Incidence of chronic kidney disease : eGFR<15	NA	6.7years	259	4(1.5)	NR	Comp. Arm: RD: -0.1 95%CI: (-2.2-2.1)
Scosyrev, 2014 ⁷⁸	Arm 2(NSS)	Incidence of chronic kidney disease : eGFR<15	NA	6.7years	255	4(1.6)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Shinohara, 2001 ⁵²	Arm 1(NSS)	Metastasis-free survival: n(%)	NA	NR	15	15(NR)	NA	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Metastasis-free survival: n(%)	NA	1.16, 1.25, and 3.58	51	48(NR)	NA	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Local recurrence-free survival: n(%)	NA	NR	15	15(NR)	NA	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	1.16, 1.25, and 3.58	51	48(NR)	NA	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	1years	40	NR(97.4)	NA	Comp. Arm: Arm 2 P: NR
Stern, 2007 ¹²¹	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	1years	37	NR(100)	NA	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	3years	40	NR(93.4)	NA	Comp. Arm: Arm 2 P: 0.67
Stern, 2007 ¹²¹	Arm 2(PN)	Local recurrence-free survival: n(%)	NA	3years	37	NR(95.8)	NA	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	NR	40	NR(100)	NA	NR
Stern, 2007 ¹²¹	Arm 2(PN)	Cancer-specific survival: n(%)	NA	NR	37	NR(100)	NA	NR
Sun, 2012 ⁸⁰	Arm 1(PN)	Incidence of chronic kidney disease : stage >=3	NA	NR	840	96(11.4)	NR	Comp. Arm: Arm 2 HR: 1.9 95%CI: 1.48-2.45 P: <0.001
Sun, 2012 ⁸⁰	Arm 2(RN)	Incidence of chronic kidney disease : stage >=3	NA	NR	840	169(20.1)	NR	NR
Sun, 2012 ⁸⁰	Arm 1(PN)	Incidence of end-stage renal disease: NR	NA	NR	840	18(2.1)	NR	Comp. Arm: Arm 2 HR: 1.83 95%CI: 1.03-3.27 P: 0.04
Sun, 2012 ⁸⁰	Arm 2(RN)	Incidence of end-stage renal disease: NR	NA	NR	840	32(3.8)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Sun, 2013 ¹³³	Arm 1(NSM)	Cancer-specific survival: n(%)	NA	5years	3271	NR(89.8)	NA	NR
Sun, 2013 ¹³³	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5years	1051	NR(96.9)	NA	NR
Sun, 2013 ¹³³	Arm 3(RN)	Cancer-specific survival: n(%)	NA	5years	6273	NR(93.3)	NA	NR
Sun, 2013 ¹³³	Arm 1(NSM-cT1a)	Cancer-specific survival: n(%)	NA	5years	3271	NR(92.6)	NA	NR
Sun, 2013 ¹³³	Arm 2(PN-cT1a)	Cancer-specific survival: n(%)	NA	5years	1051	NR(95.3)	NA	NR
Sun, 2013 ¹³³	Arm 3(RN-cT1a)	Cancer-specific survival: n(%)	NA	5years	6273	NR(95.5)	NA	NR
Sun, 2013 ¹³³	Arm 1(NSM- ≥75years)	Cancer-specific survival: n(%)	NA	5years	3271	NR(85.3)	NA	NR
Sun, 2013 ¹³³	Arm 2(PN- ≥75years)	Cancer-specific survival: n(%)	NA	5years	1051	NR(95.7)	NA	NR
Sun, 2013 ¹³³	Arm 3(RN- ≥75years)	Cancer-specific survival: n(%)	NA	5years	6273	NR(91.9)	NA	NR
Sun, 2013 ¹³³	Arm 1(NSM- ≥75years-cT1a)	Cancer-specific survival: n(%)	NA	5years	3271	NR(89.4)	NA	NR
Sun, 2013 ¹³³	Arm 2(PN- ≥75years-cT1a)	Cancer-specific survival: n(%)	NA	5years	1051	NR(95.6)	NA	NR
Sun, 2013 ¹³³	Arm 3(RN- ≥75years-cT1a)	Cancer-specific survival: n(%)	NA	5years	6273	NR(94.1)	NA	NR
Takagi, 2011 ⁸¹	Arm 1(PN-eGFR 45 - 59)	Incidence of end-stage renal disease: NR	NA	100mon ths	30	1(NR)	NR	NR
Takagi, 2011 ⁸¹	Arm 2(RN-eGFR 45 - 59)	Incidence of end-stage renal disease: NR	NA	100mon ths	38	0(NR)	NR	NR
Takagi, 2011 ⁸¹	Arm 3(PN-eGFR 30 - 44)	Incidence of end-stage renal disease: NR	NA	48mont hs	14	2(NR)	NR	NR
Takagi, 2011 ⁸¹	Arm 4(RN-eGFR 30 - 44)	Incidence of end-stage renal disease: NR	NA	72mont hs	13	1(NR)	NR	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	5	21	NR(94)	NA	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Cancer-specific survival: n(%)	NA	5	39	NR(100)	NA	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Cancer-specific survival: n(%)	NA	10	21	NR(94)	NA	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Cancer-specific survival: n(%)	NA	10	39	NR(100)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	1week	21	14(NR)	NA	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	1week	39	39(NR)	NA	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	5 years	21	88(NR)	NA	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	5 years	39	88(NR)	NA	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Local recurrence-free survival: n(%)	NA	10 years	21	84(NR)	NA	Comp. Arm: Arm 2 P: 0.99
Takaki, 2014 ¹³⁵	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	10 years	39	84(NR)	NA	NR
Tan, 2012 ⁸²	Arm 1(PN)	Cancer-specific survival: n(%)	NA	NR	1925	1888(98.1)	NA	NR
Tan, 2012 ⁸²	Arm 2(RN)	Metastasis-free survival: n(%)	NA	NR	5213	4991(95.7)	NA	NR
Tanagho, 2013 ¹²⁶	(Cryoablation)	Cancer-specific survival: n(%)	NA	5	267	NR(96.4)	NA	NR
Tanagho, 2013 ¹²⁶	(Robot assisted partial nephrectomy)	Cancer-specific survival: n(%)	NA	5	233	NR(100)	NA	NR
Tanagho, 2013 ¹²⁶	(Cryoablation)	Metastasis-free survival: n(%)	NA		267	10(12.7)	NA	Comp. Arm: Arm 2 HR: 11.41 OR: RD: 95%CI: 1.90-68.67 0.01
Tanagho, 2013 ¹²⁶	(Robot assisted partial nephrectomy)	Metastasis-free survival: n(%)	NA		233	0(0)	NA	NR
Thompson, 2014 ¹²²	Arm 1(cT1a-Partial Nephrectomy)	Local recurrence-free survival: n(%)	NA	3	1057	NR(98)	NA	Comp. Arm: Arm2 and 3 P: 0.49
Thompson, 2014 ¹²²	Arm 2(cT1a-Radiofrequency Ablation)	Local recurrence-free survival: n(%)	NA	3	166	NR(98)	NA	NR
Thompson, 2014 ¹²²	Arm 3(cT1a-Cryoablation)	Local recurrence-free survival: n(%)	NA	3	174	NR(98)	NA	Comp. Arm: Arm 5 P: 0.81
Thompson, 2014 ¹²²	Arm 4(cT1b-Partial Nephrectomy)	Local recurrence-free survival: n(%)	NA	3	326	NR(96)	NA	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Thompson, 2014 ¹²²	Arm 5(cT1b-Cryoablation)	Local recurrence-free survival: n(%)	NA	3	48	NR(97)	NA	NR
Thompson, 2014 ¹²²	Arm 1(cT1a-Partial Nephrectomy)	Metastasis-free survival: n(%)	NA	3	836	NR(99)	NA	Comp. Arm: Arm 3 P: 0.31
Thompson, 2014 ¹²²	Arm 2(cT1a-Radiofrequency Ablation)	Metastasis-free survival: n(%)	NA	3	73	NR(93)	NA	NR
Thompson, 2014 ¹²²	Arm 3(cT1a-Cryoablation)	Metastasis-free survival: n(%)	NA	3	108	NR(100)	NA	NR
Thompson, 2014 ¹²²	Arm 4(cT1b-Partial Nephrectomy)	Metastasis-free survival: n(%)	NA	3	274	NR(96)	NA	Comp. Arm: Arm 5 P: 0.45
Thompson, 2014 ¹²²	Arm 5(cT1b-Cryoablation)	Metastasis-free survival: n(%)	NA	3	36	NR(92)	NA	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Cancer-specific survival: n(%)	NA	2years	36	(100)	NA	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Cancer-specific survival: n(%)	NA	2years	36	(88.5)	NA	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Cancer-specific survival: n(%)	NA	2years	29	(83.9)	NA	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Local recurrence-free survival: n(%)	NA	Mean followup : 42.5 months	36	36	NA	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Local recurrence-free survival: n(%)	NA	Mean followup : 24 months	36	30	NA	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Local recurrence-free survival: n(%)	NA	Mean followup : 14 months	29	16	NA	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	36	32(89)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	36	26(72.2)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	29	16(55.2)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	36	2(5.5)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	36	7(19.5)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	29	7(24.1)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had decrease in serum creatinine	NA	Postop NR	36	2(5.5)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had decrease in serum creatinine	NA	Postop NR	36	3(8.3)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had decrease in serum creatinine	NA	Postop NR	29	6(20.7)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	36	2(5.5)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	36	7(19.5)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had no change in serum creatinine	NA	Postop NR	29	7(24.1)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	36	32(89)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	36	26(72.2)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had increase in serum creatinine	NA	Postop NR	29	16(55.2)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had increase in GFR	NA	Postop NR	36	2(5.5)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had increase in GFR	NA	Postop NR	36	4(11.1)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had increase in GFR	NA	Postop NR	29	4(13.8)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had no change in GFR	NA	Postop NR	36	3(8.3)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had no change in GFR	NA	Postop NR	36	5(13.9)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had no change in GFR	NA	Postop NR	29	5(17.3)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: Had decrease in GFR	NA	Postop NR	36	31(86.2)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: Had decrease in GFR	NA	Postop NR	36	27(75)	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: Had decrease in GFR	NA	Postop NR	29	20(68.9)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Incidence of end-stage renal disease: permanent dialysis	NA	Postop NR	36	2(5.6)	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Incidence of end-stage renal disease: permanent dialysis	NA	Postop NR	36	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Incidence of end-stage renal disease: permanent dialysis	NA	Postop NR	29	0(0)	NR	NR
Uchida, 2004 ⁸⁵	Arm 1(PN)	Cancer-specific survival: n(%)	NA	44mont hs	54	44(100)	NA	NR
Uchida, 2004 ⁸⁵	Arm 2(RN)	Cancer-specific survival: n(%)	NA	54mont hs	51	54(100)	NA	NR
Uchida, 2004 ⁸⁵	Arm 1(PN)	Metastasis-free survival: n(%)	NA	44mont hs	54	52(96.3)	NA	NR
Uchida, 2004 ⁸⁵	Arm 2(RN)	Metastasis-free survival: n(%)	NA	54mont hs	51	51(100)	NA	NR
Uchida, 2004 ⁸⁵	Arm 1(PN)	Local recurrence-free survival: n(%)	NA	44mont hs	54	54(100)	NA	NR
Uchida, 2004 ⁸⁵	Arm 2(RN)	Local recurrence-free survival: n(%)	NA	54mont hs	51	50(98)	NA	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Local recurrence-free survival: n(%)	NA	NR	28	26(93)	NA	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Local recurrence-free survival: n(%)	NA	NR	52	49(94.2)	NA	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Cancer-specific survival: n(%)	NA	NR	28	NR(96.5)	NA	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Cancer-specific survival: n(%)	NA	NR	52	NR(100)	NA	NR
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Local recurrence-free survival: n(%)	NA	10years	268	262	NA	NR
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	10years	273	272	NA	NR
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Metastasis-free survival: n(%)	NA	10years	268	261	NA	NR
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Metastasis-free survival: n(%)	NA	10years	273	263	NA	NR
Weight, 2010 ⁸⁹	Arm 1(RN-Upstaged Cohort)	Cancer-specific survival: n(%)	NA	5years	117	NR(73)	NA	NR
Weight, 2010 ⁸⁹	Arm 2(PN-Upstaged Cohort)	Cancer-specific survival: n(%)	NA	5years	96	NR(94)	NA	Comp. Arm: Arm 1 P: 0.01
Weight, 2010 ⁸⁹	Arm 3(RN-High Grade cohort)	Cancer-specific survival: n(%)	NA	5years	43	NR(37)	NA	NR
Weight, 2010 ⁸⁹	Arm 4(PN-High Grade cohort)	Cancer-specific survival: n(%)	NA	5years	52	NR(88)	NA	Comp. Arm: Arm 1 P: <0.01
Weight, 2010 ⁹⁰	Arm 1(RN)	Cancer-specific survival: n(%)	NA	5years	480	NR(94.3)	NA	Comp. Arm: Arm 2 P: NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Weight,2010 ⁹⁰	Arm 2(PN)	Cancer-specific survival: n(%)	NA	5years	524	NR(89.2)	NA	HR: 0.77 95%CI: 0.41-1.42 P: 0.4
Whitson, 2012 ¹²⁴	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	5years	7560	NR	NA	NR
Whitson, 2012 ¹²⁴	Arm 2(Ablation)	Cancer-specific survival: n(%)	NA	5years	1076	NR	NA	NR
Whitson, 2012 ¹²⁴	Arm 1(NSS)	Cancer-specific survival: n(%)	NA	10years	7560	NR	NA	NR
Whitson, 2012 ¹²⁴	Arm 2(Ablation)	Cancer-specific survival: n(%)	NA	10years	1076	NR	NA	NR
Whitson, 2012 ¹²⁴	Overall(NR)	Cancer-specific survival: n(%)	NA	NR	NR	NR	NA	HR: 2.6 95%CI: 1.6-4.2 P: <0.001
Whitson, 2012 ¹²⁴	Overall(NR)	Cancer-specific survival: n(%)	NA	NR	NR	NR	NA	Comp. Arm: NSS HR: 1.9 95%CI: 1.1-3.3 P: 0.02
Whitson, 2012 ¹²⁴	Overall(NR)	Cancer-specific survival: n(%)	NA	NR	NR	NR	NA	0.93
Woldu, 2014 ⁹¹	Arm 1(NSS)	Glomerular filtration rate decline: new-onset GFR <30	NA	60	539	19(3.5)	Comp. Arm: 93 P: NR	NR
Woldu, 2014 ⁹¹	Arm 2(RN)	Glomerular filtration rate decline: new-onset GFR <30	NA	60	767	46(6)	Comp. Arm: 93 P: NR	NR
Woldu, 2014 ⁹¹	Overall(Cohort)	Glomerular filtration rate decline: new-onset GFR <30	NA	60	1306	65(5)	P: 0.395	NR
Woldu, 2014 ⁹¹	Arm 1(NSS)	Glomerular filtration rate decline: new onset GFR <45	NA	60	506	35(6.9)	Comp. Arm: 87 P: NR	NR
Woldu, 2014 ⁹¹	Arm 2(RN)	Glomerular filtration rate decline: new onset GFR <45	NA	60	726	150(20.7)	Comp. Arm: 74 P: NR	NR
Woldu, 2014 ⁹¹	Overall(Cohort)	Glomerular filtration rate decline: new onset GFR <45	NA	60	1232	185(15)	HR: 2.3 95%CI: 1.6-3.3 P: 0.001	HR: 2.3 95%CI: 1.6-3.3 P: <0.001

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Woldu, 2014 ⁹¹	Arm 1(NSS)	Glomerular filtration rate decline: annual rate of decline	NA	60	539	NR	Comp. Arm: - 1.17 95%CI:	NR
Woldu, 2014 ⁹¹	Arm 2(RN)	Glomerular filtration rate decline: annual rate of decline	NA	60	767	NR	Comp. Arm: - 1.89 95%CI:	NR
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Local recurrence-free survival: n(%)	NA	Median 37 month Months	75	75	NA	NR
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Local recurrence-free survival: n(%)	NA	Median 45 month Months	341	297	NA	NR
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Metastasis-free survival: n(%)	NA	Median 37 month Months	75	74	NA	NR
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Metastasis-free survival: n(%)	NA	Median 45 month Months	341	341	NA	NR
Yokoyama, 2011 ¹⁵³	Overall	: n(%)	NA				NA	NR
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Glomerular filtration rate decline: Freedom from new onset eGFR < 60 ml/min/1.73m ²	NA	3years	75	(89)	NR	NR<0.001
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Glomerular filtration rate decline: Freedom from new onset eGFR < 60 ml/min/1.73m ²	NA	3years	341	(63)	NR	NR<0.001
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Glomerular filtration rate decline: Freedom from new onset eGFR < 45 ml/min/1.73m ²	NA	3years	75	(95)	NR	NR0.247
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Glomerular filtration rate decline: Freedom from new onset eGFR < 45 ml/min/1.73m ²	NA	3years	341	(89)	NR	NR0.247

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Incidence of end-stage renal disease: Incidence of end-stage renal disease requiring dialysis	NA	NR	75	0	NR	NR
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Incidence of end-stage renal disease: Incidence of end-stage renal disease requiring dialysis	NA	NR	341	2	NR	NR
Youn, 2013 ¹³⁰	Arm 1(Open PN)	Local recurrence-free survival: n(%)	NA	50	14	14(NR)	NA	NR
Youn, 2013 ¹³⁰	Arm 2(Laparoscopic RFA)	Local recurrence-free survival: n(%)	NA	50	41	40(NR)	NA	NR
Youn, 2013, ¹³⁰	Arm 2(Laparoscopic RFA)	Metastasis-free survival: n(%)	NA	50	41	41(NR)	NA	NR
Youn, 2013 ¹³⁰	Arm 1(Open PN)	Metastasis-free survival: n(%)	NA	50	14	14(NR)	NA	NR
Zorn, 2007 ¹⁰³	Arm 1(LPN)	Creatinine measure: >1.5	NA	6months	42	0	NR	NR
Zorn, 2007 ¹⁰³	Arm 2(LRN)	Creatinine measure: >1.5	NA	6months	55	24(36.4)	NR	NR
Zorn, 2007 ¹⁰³	Arm 2(LRN)	Creatinine measure: >2	NA	6months	55	3(5.5)	NR	NR
Chang, 2014, ⁹⁵	Arm 1(RN)	Incidence of chronic kidney disease : NR	NA	3years	339	177(55.7)	NR	Comp. Arm: Arm 2 P: <0.001
Chang, 2014, ⁹⁵	Arm 2(PN)	Incidence of chronic kidney disease : NR	NA	3years	218	13(6.2)	NR	NR
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Antoniewicz, 2012 ⁵⁵	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.8 SD: 18.4	3 months	33	Mean: 47.1 SD: 9.5	NR	NR
Antoniewicz, 2012 ⁵⁵	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 74 SD: 21.1	3 months	18	Mean: 69.6 SD: 18.4	NR	Comp. Arm: Arm 1 P: <0.01
Antoniewicz, 2012 ⁵⁵	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.8 SD: 18.4	12 months	33	Mean: 48.1 SD: 10.2	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Antoniewicz, 2012 ⁵⁵	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 74 SD: 21.1	12 months	18	Mean: 70.5 SD: 22.8	NR	Comp. Arm: Arm 1 P: <0.01
Antoniewicz, 2012 ⁵⁵	Arm 1(RN)	Creatinine measure: mmol/l	Mean: 90.5 SD: 19.5	3 months	33	Mean: 128.1 SD: 25	NR	NR
Antoniewicz, 2012 ⁵⁵	Arm 2(PN)	Creatinine measure: mmol/l	Mean: 89.4 SD: 23.3	3 months	18	Mean: 94.9 SD: 27.3	NR	Comp. Arm: Arm 1 P: <0.01
Antoniewicz, 2012 ⁵⁵	Arm 1(RN)	Creatinine measure: mmol/l	Mean: 90.5 SD: 19.5	12 months	33	Mean: 126.4 SD: 24.7	NR	NR
Antoniewicz, 2012 ⁵⁵	Arm 2(PN)	Creatinine measure: mmol/l	Mean: 89.4 SD: 23.3	12 months	18	Mean: 95.1 SD: 34.9	NR	Comp. Arm: Arm 1 P: <0.01
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Creatinine measure: ml/min	Mean: 105 SD:	4 years	41	Mean: 90 SD:	NR	NR>0.01
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Creatinine measure: ml/min	Mean: 107 SD:	4 years	48	Mean: 80 SD:	NR	NR>0.01
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Glomerular filtration rate decline: ML/MIN	Mean: 74.9 SD: NR	NR	45	Mean: 65.3 SD: NR	Comp. Arm: 21.1 SD: 12.9 P: NR	Comp. Arm: Arm 2 P: <0.001
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Glomerular filtration rate decline: ML/MIN	Mean: 69.5 SD: NR	NR	108	Mean: 48.8 SD: NR	Comp. Arm: 12 SD: 13.2 P: NR	NR
Dash, 2006 ⁶⁰	Arm 1(PN)	Creatinine measure: mg/dL	Mean: 1.16 SD: 0.33	>3 months	45	Mean: 1.39 SD: 0.6	NR	Comp. Arm: Arm 2 95%CI: 0.23-0.48 P: <0.001
Dash, 2006 ⁶⁰	Arm 2(RN)	Creatinine measure: mg/dL	Mean: 1.09 SD: 0.36	>3 months	151	Mean: 1.6 SD: 0.76	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Creatinine measure: ml/min	Mean: 87.39 SD:	15 months	33	Mean: 85.8 SD:	NR	NR0.002
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Creatinine measure: ml/min	Mean: 101.35 SD:	21 months	52	Mean: 62.3 SD:	NR	NR0.002
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Glomerular filtration rate decline: percent	Mean: NR SD:	15 months	33	Mean: 12.5 SD:	NR	NR0.002

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Glomerular filtration rate decline: percent	Mean: NR SD:	21 months	52	Mean: 29.3 SD:	NR	NR0.002
Deklaj, 2010 ¹⁴²	Arm 1(LRN)	Creatinine measure: mL/min	Mean: 63.3 SD: 16.2	16.1	19	Mean: 43.4 SD: 9.3	Comp. Arm: - 19.5 P: NR	Comp. Arm: Arm 2 and 3 P: 0.049
Deklaj, 2010 ¹⁴²	Arm 2(LPN)	Creatinine measure: mL/min	Mean: 63.2 SD: 17.7	28.9	28	Mean: 61.4 SD: 18.8	Comp. Arm: - 6 P: NR	NR
Deklaj, 2010 ¹⁴²	Arm 3(LAT)	Creatinine measure: mL/min	Mean: 65.2 SD: 26.4	19.3	19	Mean: 59.2 SD: 27.1	Comp. Arm: - 6.1 P: NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Creatinine measure: mg/dl	Mean: 1.02 SD: 0.32	NR	153	Mean: 1.27 SD: 0.92	Comp. Arm: 16.4 P: NR	Comp. Arm: Arm 2 P: 0.31
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Creatinine measure: mg/dl	Mean: 1.19 SD: 0.57	NR	89	Mean: 1.41 SD: 0.65	Comp. Arm: 13.7 P: NR	NR
Emara, 2014 ¹¹³	(Cryoablation)	Creatinine measure: mmol/L	Mean: NR SD: NR	6 weeks	56	Mean: NR SD: NR	Comp. Arm: 9.214 P: NR	Comp. Arm: Arm 2 RR: 0.66 P:
Emara, 2014 ¹¹³	(Robot assisted partial nephrectomy)	Creatinine measure: mmol/L	Mean: NR SD: NR	6 weeks	47	Mean: NR SD: NR	Comp. Arm: 5.4 P: NR	NR
Faddegon, 2013 ¹¹⁹	Arm 1(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 75 SD: 22.5	NR	142	Mean: NR SD: NR	Comp. Arm: - 7.97 SD: 15.3 P: NR	NR
Faddegon, 2013 ¹¹⁹	Arm 2(RFA)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 80.7 SD: 21.8	NR	205	Mean: NR SD: NR	Comp. Arm: - 8.01 SD: 15 P: NR	NR
Ficarra, 2003 ⁴⁶	Arm 1(RN)	Quality of life: Hospital Anxiety and Depression Scale (H.A.D.S.)-Assessing Anxiety	NR	NR	88	Mean: 2.77 SD: 2.77	NR	Comp. Arm: Arm 2 P: 0.003
Ficarra, 2003 ⁴⁶	Arm 2(NSS)	Quality of life: Hospital Anxiety and Depression Scale (H.A.D.S.)-Assessing Anxiety	NR	NR	56	Mean: 1.79 SD: 2.47	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Ficarra, 2003 ⁴⁶	Arm 1(RN)	Quality of life: Hospital Anxiety and Depression Scale (H.A.D.S.)-Assessing Depression	NR	NR	88	Mean: 2.08 SD: 2.32	NR	Comp. Arm: Arm 2 P: 0.015
Ficarra, 2003 ⁴⁶	Arm 2(NSS)	Quality of life: Hospital Anxiety and Depression Scale (H.A.D.S.)-Assessing Depression	NR	NR	56	Mean: 1.7 SD: 2.8	NR	NR
Ficarra, 2003 ⁴⁶	Arm 1(RN)	Quality of life: Social Problem Questionnaire	NR	NR	88	Mean: 0.31 SD: 0.79	NR	Comp. Arm: Arm 2 P: NS
Ficarra, 2003 ⁴⁶	Arm 2(NSS)	Quality of life: Social Problem Questionnaire	NR	NR	56	Mean: 0.46 SD: 1.15	NR	NR
Ficarra, 2003 ⁴⁶	Arm 1(RN)	Quality of life: General Health Questionnaire	NR	NR	88	Mean: 0.78 SD: 1.88	NR	Comp. Arm: Arm 2 P: NS
Ficarra, 2003 ⁴⁶	Arm 2(NSS)	Quality of life: General Health Questionnaire	NR	NR	56	Mean: 0.5 SD: 1.46	NR	NR
Foyil, 2008 ¹⁴³	Arm 1(LPN-Non)	Creatinine Clearance: ml/min	Mean: 63.2 SD: NR	12 months	55	Mean: NR SD: NR	Comp. Arm: 3.74 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 2(LPN-Warm ischemia)	Creatinine Clearance: ml/min	Mean: 71.97 SD: NR	12 months	37	Mean: NR SD: NR	Comp. Arm: 4.12 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 3(LPN-Cold ischemia)	Creatinine Clearance: ml/min	Mean: 63.34 SD: NR	12 months	6	Mean: NR SD: NR	Comp. Arm: 7.81 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 4(LRN)	Creatinine Clearance: ml/min	Mean: 56.11 SD: NR	12 months	50	Mean: NR SD: NR	Comp. Arm: - 13.24 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 5(Cryo)	Creatinine Clearance: ml/min	Mean: 56.21 SD: NR	12 months	49	Mean: NR SD: NR	Comp. Arm: - 1.95 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 1(LPN-Non)	Creatinine Clearance: ml/min	Mean: 63.2 SD: NR	12 months	55	Mean: NR SD: NR	Comp. Arm: 3.74 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 2(LPN-Warm ischemia)	Creatinine Clearance: ml/min	Mean: 71.97 SD: NR	12 months	37	Mean: NR SD: NR	Comp. Arm: 4.12 P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Foyil, 2008 ¹⁴³	Arm 3(LPN-Cold ischemia)	Creatinine Clearance: ml/min	Mean: 63.34 SD: NR	12 months	6	Mean: NR SD: NR	Comp. Arm: 7.81 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 4(LRN)	Creatinine Clearance: ml/min	Mean: 56.11 SD: NR	12 months	50	Mean: NR SD: NR	Comp. Arm: -13.24 P: NR	NR
Foyil, 2008 ¹⁴³	Arm 5(Cryo)	Creatinine Clearance: ml/min	Mean: 56.21 SD: NR	12 months	49	Mean: NR SD: NR	Comp. Arm: -1.95 P: NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Creatinine measure: Percent change	Mean: SD:	6 months	36	Mean: +34 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Creatinine measure: Percent change	Mean: SD:	6 months	37	Mean: +18 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Creatinine measure: Percent change	Mean: SD:	6 months	44	Mean: 0 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Creatinine measure: Percent change	Mean: SD:	6 months	36	Mean: +34 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Creatinine measure: Percent change	Mean: SD:	6 months	37	Mean: +18 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Creatinine measure: Percent change	Mean: SD:	6 months	44	Mean: 0 SD: NR	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Quality of life: SF-36	NR	NR	36	Mean: 48 SD:	NR	NR0.503
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Quality of life: SF-36	NR	NR	37	Mean: 48.3 SD:	NR	NR0.503
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Quality of life: SF-36	NR	NR	44	Mean: 44.5 SD:	NR	NR0.503
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Quality of life: SF-36	NR	NR	36	Mean: 47.4 SD:	NR	NR0.968

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Quality of life: SF-36	NR	NR	37	Mean: 48 SD:	NR	NR0.968
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Quality of life: SF-36	NR	NR	44	Mean: 47.2 SD:	NR	NR0.968
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Glomerular filtration rate decline: ml/min	Mean: 86.3 SD: 36	6 months	210	Mean: 76 SD: 21.2	Comp. Arm: -11.2 P: NR	Comp. Arm: Arm 2 P: 0.4
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Glomerular filtration rate decline: ml/min	Mean: 65.8 SD: 28.6	6 months	226	Mean: 60.1 SD: 31.4	Comp. Arm: -8.9 P: NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Creatinine measure: mg/dl	Mean: 1.1 SD: NR	NR	75	Mean: 1 SD: NR	NR	Comp. Arm: Arm 2 P: 0.101
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Creatinine measure: mg/dl	Mean: 0.9 SD: NR	NR	92	Mean: 1.2 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.6 SD: NR	1 year	67	Mean: 59.5 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.3 SD: NR	1 year	195	Mean: 47.1 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.1 SD: NR	1 year	324	Mean: 63.8 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.6 SD: NR	3 year	67	Mean: 58.5 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.3 SD: NR	3 year	195	Mean: 49.8 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.1 SD: NR	3 year	324	Mean: 61.9 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.6 SD: NR	5 year	67	Mean: 65.3 SD: NR	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 70.3 SD: NR	5 year	195	Mean: 51.9 SD: NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Iizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.1 SD: NR	5 year	324	Mean: 62.3 SD: NR	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Creatinine measure: mg/dl	Mean: 1.02 SD: 0.44	NR	79	Mean: 1.03 SD: 0.45	NR	NR0.02
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Creatinine measure: mg/dl	Mean: 1.18 SD: 0.37	NR	35	Mean: 1.51 SD: 0.22	NR	NR0.02
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Glomerular filtration rate decline: ML/MIN	Mean: 87 SD: NR	12mont hs	51	Mean: 82.5 SD: NR	Comp. Arm: 5.17 P: <0.01	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Glomerular filtration rate decline: ML/MIN	Mean: 88 SD: NR	12mont hs	51	Mean: 80.7 SD: NR	Comp. Arm: 8.29 P: <0.01	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN-Preop CKD1)	Glomerular filtration rate decline: ML/MIN	Mean: 117.9 SD: NR	12mont hs	21	Mean: 106.7 SD: NR	Comp. Arm: 9.49 P: <0.01	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT-Preop CKD1)	Glomerular filtration rate decline: ML/MIN	Mean: 116.2 SD: NR	12mont hs	23	Mean: 102.1 SD: NR	Comp. Arm: 12.13 P: <0.01	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN-Preop CKD2)	Glomerular filtration rate decline: ML/MIN	Mean: 72.3 SD: NR	12mont hs	23	Mean: 72 SD: NR	Comp. Arm: 0.4 P: 0.44	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT-Preop CKD2)	Glomerular filtration rate decline: ML/MIN	Mean: 76.4 SD: NR	12mont hs	18	Mean: 7.6 SD: NR	Comp. Arm: 1.57 P: 0.67	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN-Preop CKD3 - 5)	Glomerular filtration rate decline: ML/MIN	Mean: 45.4 SD: NR	12mont hs	7	Mean: 44.1 SD: NR	Comp. Arm: 2.86 P: 0.47	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT-Preop CKD3 - 5)	Glomerular filtration rate decline: ML/MIN	Mean: 42.5 SD: NR	12mont hs	10	Mean: 39.5 SD: NR	Comp. Arm: 7.05 P: 0.03	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 63.6 SD: NR	3 months	41	Mean: NR SD: NR	Comp. Arm: - 5.3 SE: 2.4 P: 0.049	Comp. Arm: Arm 2 P: NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 63.6 SD: NR	3 months	82	Mean: NR SD: NR	Comp. Arm: - 6.4 SE: 1.5 P: <0.001	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Glomerular filtration rate decline: mL/min/1.73m ²	Mean: 67.77 SD: 22.9	1	82	Mean: 47.54 SD: 14.7	NR	Comp. Arm: Arm 2 P: <0.001
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Glomerular filtration rate decline: mL/min/1.73m ²	Mean: 69.42 SD: 22.1	1	53	Mean: 61.98 SD: 20.3	NR	NR
Lane, 2010 ⁶⁸	Arm 1(PN Limited ischemia)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 82 SD: NR	last follow up	804	Mean: 72 SD: NR	Comp. Arm: 12 P: NR	Comp. Arm: Arms 2,3 and 4 P: <0.001
Lane, 2010 ⁶⁸	Arm 2(PN Unknown ischemia)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 84 SD: NR	last follow up	546	Mean: 74 SD: NR	Comp. Arm: 12 P: NR	NR
Lane, 2010 ⁶⁸	Arm 3(PN Extended ischemia)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 84 SD: NR	last follow up	483	Mean: 68 SD: NR	Comp. Arm: 19 P: NR	NR
Lane, 2010 ⁶⁸	Arm 4(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 83 SD: NR	last follow up	569	Mean: 52 SD: NR	Comp. Arm: 35 P: NR	NR
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 54 SD: NR	NR	105	Mean: 51 SD: NR	NR	NR
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 64 SD: NR	NR	146	Mean: 41 SD: NR	NR	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Creatinine measure: mg/dl	Mean: 1.3 SD: 0.6	12 months	35	Mean: 1.7 SD: 1.2	NR	Comp. Arm: Arm 2 P: 0.103
Li, 2007 ⁶⁹	Arm 2(RN)	Creatinine measure: mg/dl	Mean: 1.2 SD: 0.6	12 months	86	Mean: 1.7 SD: 1.1	NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	19	Mean: NR SD: NR	Comp. Arm: - 1.7 SD: 13.7 P: NR	Comp. Arm: Arms 2 and 3 P: 0.46
Lucas, 2007 ¹³⁸	Arm 2(PN with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	18	Mean: NR SD: NR	Comp. Arm: - 5.2 SD: 9.7 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	6	Mean: NR SD: NR	Comp. Arm: - 8.9 SD: 17.3 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: 3.1 SD: 17.3 P: NR	Comp. Arm: Arms 2 and 3 P: 0.46

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Lucas, 2007 ¹³⁸	Arm 2(PN with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: -5.3 SD: 7.2 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: -10 SD: 10 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	19	Mean: NR SD: NR	Comp. Arm: -1.7 SD: 13.7 P: NR	Comp. Arm: Arms 2 and 3 P: 0.46
Lucas, 2007 ¹³⁸	Arm 2(PN with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	18	Mean: NR SD: NR	Comp. Arm: -5.2 SD: 9.7 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN with preexisting CKD 3)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	6	Mean: NR SD: NR	Comp. Arm: -8.9 SD: 17.3 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 1(RFA with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: 3.1 SD: 17.3 P: NR	Comp. Arm: Arms 2 and 3 P: 0.46
Lucas, 2007 ¹³⁸	Arm 2(PN with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: -5.3 SD: 7.2 P: NR	NR
Lucas, 2007 ¹³⁸	Arm 3(RN with preexisting CKD 3b)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD: NR	NR	NR	Mean: NR SD: NR	Comp. Arm: -10 SD: 10 P: NR	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Glomerular filtration rate decline: ml/min	Mean: 69 SD: 69	6 months	44	Mean: 59 SD:	Comp. Arm: -0.12 95%CI:	NR<0.001
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Glomerular filtration rate decline: ml/min	Mean: 65 SD: 65	6 months	44	Mean: 45 SD:	Comp. Arm: -0.3 95%CI:	NR<0.001
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Creatinine measure: mg/dl	Mean: 0.91 SD:	4 months	82	Mean: 1.01 SD:	NR	NR0.001
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Creatinine measure: mg/dl	Mean: 0.97 SD:	4 months	35	Mean: 1.41 SD:	NR	NR0.001
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Creatinine measure: mg/dl	Mean: 0.91 SD:	6 months	82	Mean: 1.01 SD:	NR	NR<0.001

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Creatinine measure: mg/dl	Mean: 0.97 SD:	6 months	35	Mean: 1.41 SD:	NR	NR<0.001
McKiernan, 2002 ⁷²	Arm 1(Partial nephrectomy)	Creatinine measure: mg/dl	Mean: 0.98 SD:	NR	117	Mean: 1 SD:	NR	NR<0.001
McKiernan, 2002 ⁷²	Arm 2(Radical nephrectomy)	Creatinine measure: mg/dl	Mean: 1 SD:	NR	173	Mean: 1.5 SD:	NR	NR<0.001
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.3 SD: 18.63	6 months	86	Mean: 75.83 SD: 19.51	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.97 SD: 15.49	6 months	132	Mean: 57.08 SD: 12.62	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.3 SD: 18.63	12 months	86	Mean: 74.13 SD: 17.39	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.97 SD: 15.49	12 months	132	Mean: 59.1 SD: 13.67	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.3 SD: 18.63	24 months	86	Mean: 75.98 SD: 19.19	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.97 SD: 15.49	24 months	132	Mean: 59.64 SD: 17.1	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.3 SD: 18.63	36 months	86	Mean: 74.86 SD: 19.82	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.97 SD: 15.49	36 months	132	Mean: 63.41 SD: 19.96	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.3 SD: 18.63	48 months	86	Mean: 75.38 SD: 24.82	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR>60)	Creatinine measure: ml/min/1.73m ²	Mean: 84.97 SD: 15.49	48 months	132	Mean: 63.45 SD: 18.26	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 50.13 SD: 6.99	6 months	30	Mean: 47.07 SD: 13.54	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 54.02 SD: 11.54	6 months	42	Mean: 37.33 SD: 12.48	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 50.13 SD: 6.99	12 months	30	Mean: 46.74 SD: 12.45	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 54.02 SD: 11.54	12 months	42	Mean: 38.72 SD: 13.08	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 50.13 SD: 6.99	24 months	30	Mean: 47.76 SD: 13.45	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 54.02 SD: 11.54	24 months	42	Mean: 39.89 SD: 13.06	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 50.13 SD: 6.99	36 months	30	Mean: 49.02 SD: 13.74	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 54.02 SD: 11.54	36 months	42	Mean: 39.86 SD: 13.05	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 50.13 SD: 6.99	48 months	30	Mean: 48.84 SD: 13.99	NR	NR
Medina-Polo, 2011 ⁷³	Arm 2(RN - GFR<60)	Creatinine measure: ml/min/1.73m ²	Mean: 54.02 SD: 11.54	48 months	42	Mean: 41.92 SD: 16.11	NR	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Creatinine measure: mg/dl	Mean: 1.3 SD: NR	3 months	50	Mean: 1.4 SD: NR	Comp. Arm: 0.1 P: NR	Comp. Arm: Arm 2 P: 0.596
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Creatinine measure: mg/dl	Mean: 1.5 SD: NR	3 months	62	Mean: 1.5 SD: NR	Comp. Arm: 0.1 P: NR	NR
Mitchell, 2011 ¹²⁹	Arm 1(Ablation)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 53.4 SD: NR	3 months	50	Mean: 49.3 SD: NR	Comp. Arm: - 1.5 P: NR	Comp. Arm: Arm 2 P: 0.767
Mitchell, 2011 ¹²⁹	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 53.5 SD: NR	3 months	62	Mean: 50.3 SD: NR	Comp. Arm: - 3.3 P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.3 SD: 16	60 months	152	Mean: 46.2 SD: 12.6	Comp. Arm: 25.1 SD: 11.3 P: NR	Comp. Arm: Arm 2 P: <0.001
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.4 SD: 20.1	60 months	59	Mean: 60.8 SD: 18.3	Comp. Arm: 9.27 SD: 13.5 P: NR	NR
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Creatinine measure: mg/dl	Mean: 0.82 SD: 0.18	60 months	152	Mean: 1.24 SD: 0.38	NR	Comp. Arm: Arm 2 P: <0.001
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Creatinine measure: mg/dl	Mean: 0.83 SD: 0.22	60 months	59	Mean: 0.96 SD: 0.32	NR	NR
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.3 SD: 16	Not Specified	152	Mean: 46.2 SD: 12.6	Comp. Arm: - 25.1 SD: 11.3 P: NR	Comp. Arm: Arm 2 P: <0.001
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 71.4 SD: 20.1	Not Specified	59	Mean: 60.8 SD: 18.3	Comp. Arm: - 9.27 SD: 13.5 P: NR	NR
Miyamoto, 2012 ⁷⁶	Arm 1(RN)	Creatinine measure: mg/dl	Mean: 0.82 SD: 0.18	Not Specified	152	Mean: 1.24 SD: 0.38	NR	Comp. Arm: Arm 2 P: <0.001
Miyamoto, 2012 ⁷⁶	Arm 2(PN)	Creatinine measure: mg/dl	Mean: 0.83 SD: 0.22	Not Specified	59	Mean: 0.96 SD: 0.32	NR	NR
Mues, 2012 ¹²⁰	Arm 1(ablation)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: 59 SD: NR	3 months	98	Mean: 52 SD: NR	NR	P:
Mues, 2012 ¹²⁰	Arm 2(PN)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: 59 SD: NR	3 months	100	Mean: 53 SD: NR	NR	P: 0.76
Mues, 2012 ¹²⁰	Arm 1(ablation)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: 59 SD: NR	12 months	98	Mean: 51 SD: NR	NR	P:
Mues, 2012 ¹²⁰	Arm 2(PN)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: 59 SD: NR	12 months	100	Mean: 52 SD: NR	NR	P: 0.78

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 61.6 SD: 18.6	NR	48	Mean: 47.5 SD: 18.4	Comp. Arm: -14.5 SD: 16.4 P: NR	Comp. Arm: Arm 2 P: 0.02
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 53.8 SD: 19	NR	30	Mean: 47.5 SD: 14.8	Comp. Arm: -7.3 SD: 12.2 P: NR	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Creatinine measure: mg/dl	Mean: 1.2 SD: 0.3	NR	48	Mean: 1.7 SD: 0.9	Comp. Arm: 0.4 SD: 0.5 P: NR	Comp. Arm: Arm 2 P: 0.04
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Creatinine measure: mg/dl	Mean: 1.5 SD: 0.5	NR	30	Mean: 1.7 SD: 0.6	Comp. Arm: 0.2 SD: 0.3 P: NR	NR
QUALITY OF LIFE								
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Creatinine measure: ml/min/1.73m ²	Mean: 81.28 SD:	>30 days	36	Mean: 93.06 SD:	NR	NRBetween arm1 and arm2, p<0.001, between young and old, p<0.001
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Creatinine measure: ml/min/1.73m ²	Mean: 79.9 SD:	>30 days	45	Mean: 62.84 SD:	NR	NRBetween arm1 and arm2, p<0.001, between young and old, p<0.001
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Creatinine measure: ml/min/1.73m ²	Mean: 81.87 SD:	>30 days	33	Mean: 62.66 SD:	NR	NRBetween arm3 and arm4, p=0.015, between young and old, p<0.001
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Creatinine measure: ml/min/1.73m ²	Mean: 75.41 SD:	>30 days	55	Mean: 47.28 SD:	NR	NRBetween arm3 and arm4, p=0.015, between young and old, p<0.001

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD:	>30 days	36	Mean: 12.87 SD:	NR	NRBetween arm1 and arm2, p<0.001, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD:	>30 days	45	Mean: 23.6 SD:	NR	NRBetween arm1 and arm2, p<0.001, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD:	>30 days	33	Mean: 13.48 SD:	NR	NRBetween arm3 and arm4, p=0.095, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: NR SD:	>30 days	55	Mean: 21.37 SD:	NR	NRBetween arm3 and arm4, p=0.095, between young and old, p=NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor 4.1 - 7cm))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 78.72 SD: NR	Last follow up	85	Mean: 72.52 SD: NR	NR	Comp. Arm: Arm 2 P: <0.001
Roos, 2012 ⁵¹	Arm 2(RN(tumor 4.1 - 7cm))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 76.02 SD: NR	Last follow up	118	Mean: 56.65 SD: NR	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 79.13 SD: NR	Last follow up	16	Mean: 81.02 SD: NR	NR	Comp. Arm: Arm 2 P: 0.006
Roos, 2012 ⁵¹	Arm 2(RN(tumor > 7cm))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 85.72 SD: NR	Last follow up	28	Mean: 64.67 SD: NR	NR	NR
Scosyrev, 2014 ⁷⁸	Arm 1(RN)	Glomerular filtration rate decline: mg/dl/1.73m ²	Mean: NR SD:	1 year	259	Mean: 52.7 SD:	NR	Comp. Arm: NSS RD: 14.1 95%CI:
Scosyrev, 2014 ⁷⁸	Arm 2(NSS)	Glomerular filtration rate decline: mg/dl/1.73m ²	Mean: NR SD:	1 year	255	Mean: 66.8 SD:	NR	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Quality of life: ORTC Quality of Life	NR	NR	15	Mean: 77.1 SD: NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Questionnaire C30 (EORTC QLQ-C30)						
Shinohara, 2001 ⁵²	Arm 2(RN)	Quality of life: ORTC Quality of Life Questionnaire C30 (EORTC QLQ-C30)	NR	NR	51	Mean: 66.9 SD: NR	NR	NR
Snow, 2008 ¹⁰²	Arm 1(LPN)	Creatinine measure: mL/dL	Mean: 0.9 SD: 0.2	7 months	48	Mean: 1.03 SD: 0.34	NR	Comp. Arm: Arm 2 P: 0.0002
Snow, 2008 ¹⁰²	Arm 2(LRN)	Creatinine measure: mL/dL	Mean: 0.9 SD: 0.2	7.8mont hs	37	Mean: 1.4 SD: 0.32	NR	NR
Snow, 2008 ¹⁰²	Arm 1(LPN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 89.5 SD: 22.1	7 months	48	Mean: 79 SD: 22	NR	Comp. Arm: Arm 2 P: 0.000001
Snow, 2008 ¹⁰²	Arm 2(LRN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 90 SD: 16.7	7.8mont hs	37	Mean: 55 SD: 14	NR	NR
Snow, 2008 ¹⁰²	Arm 1(LPN)	Creatinine measure: mL/dL	Mean: 0.9 SD: 0.2	7 months	48	Mean: 1.03 SD: 0.34	NR	Comp. Arm: Arm 2 P: 0.0002
Snow, 2008 ¹⁰²	Arm 2(LRN)	Creatinine measure: mL/dL	Mean: 0.9 SD: 0.2	7.8mont hs	37	Mean: 1.4 SD: 0.32	NR	NR
Snow, 2008 ¹⁰²	Arm 1(LPN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 89.5 SD: 22.1	7 months	48	Mean: 79 SD: 22	NR	Comp. Arm: Arm 2 P: 0.000001
Snow, 2008 ¹⁰²	Arm 2(LRN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 90 SD: 16.7	7.8mont hs	37	Mean: 55 SD: 14	NR	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 63.2 SD: 27.8	1 month	21	Mean: 55.7 SD: 26.3	NR	Comp. Arm: Arm 2 P: <0.001
Takaki, 2014 ¹³⁵	Arm 2(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 88.4 SD: 22	1 month	39	Mean: 55.5 SD: 13.5	NR	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 63.2 SD: 27.8	Last follow up	21	Mean: 56.8 SD: 31.4	NR	Comp. Arm: Arm 2 P: 0.08
Takaki, 2014 ¹³⁵	Arm 2(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 88.4 SD: 22	Last follow up	39	Mean: 59.6 SD: 17.8	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Tanagho, 2013 ¹²⁶	(Cryoablation)	Glomerular filtration rate decline: mL/min/1.73m ²	Mean: 66.3 SD: 24.7	mean 35.8m	267	Mean: 61.3 SD: 27	P: <0.01	P: </=0.01
Tanagho, 2013 ¹²⁶	(Robot assisted partial nephrectomy)	Glomerular filtration rate decline: mL/min/1.73m ²	Mean: 84.5 SD: 20.9	mean 11.8m	233	Mean: 73.4 SD: 22.4	P: <0.01	NR
Tanagho, 2013 ¹²⁶	(Cryoablation)	Creatinine measure: mg/dl	Mean: 1.2 SD: 0.9	mean 35.8m	267	Mean: 1.4 SD: 1.1	NR	P: </=0.01
Tanagho, 2013 ¹²⁶	(Robot assisted partial nephrectomy)	Creatinine measure: mg/dl	Mean: 0.9 SD: 0.3	mean 11.8m	233	Mean: 1.1 SD: 0.5	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: mg/dl	Mean: 1.2 SD: 0.4	Postop	36	Mean: 1.6 SD: 0.6	NR	NR0.766
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: mg/dl	Mean: 1.4 SD: 0.5	Postop	36	Mean: 1.6 SD: 0.7	NR	NR0.766
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: mg/dl	Mean: 1.4 SD: 0.5	Postop	29	Mean: 1.5 SD: 0.8	NR	NR0.766
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: mg/dl	Mean: SD:	Postop	36	Mean: 0.4 SD: 0.5	NR	NR0.028
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: mg/dl	Mean: SD:	Postop	36	Mean: 0.2 SD: 0.3	NR	NR0.028
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: mg/dl	Mean: SD:	Postop	29	Mean: 0.1 SD: 0.4	NR	NR0.028
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Creatinine measure: m/min/1.73m ²	Mean: 65 SD: 23.5	Postop	36	Mean: 48 SD: 17	NR	NR0.705
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: m/min/1.73m ²	Mean: 52.3 SD: 19.7	Postop	36	Mean: 51 SD: 27	NR	NR0.705
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: m/min/1.73m ²	Mean: 53.2 SD: 16.2	Postop	29	Mean: 52 SD: 15	NR	NR0.705
Turna, 2009 ¹²³	Arm 1(Laparoscopic	Creatinine measure: m/min/1.73m ²	Mean: SD:	Postop	36	Mean: 18 SD: 17	NR	NR0.0025

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	partial nephrectomy)							
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Creatinine measure: m/min/1.73m ²	Mean: SD:	Postop	36	Mean: 3 SD: 17	NR	NR0.0025
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Creatinine measure: m/min/1.73m ²	Mean: SD:	Postop	29	Mean: 7 SD: 15	NR	NR0.0025
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Creatinine measure: mg/dl	Mean: NR SD: NR	9.3 years	268	Mean: 1.3 SD:	NR	NR
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Creatinine measure: mg/dl	Mean: NR SD: NR	9.3 years	273	Mean: 1.5 SD:	NR	NR
Woldu, 2014 ⁹¹	Arm 1(NSS)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: NR SD: NR	60	539	Mean: NR SD: NR	Comp. Arm: - 1.17 P: NR	NR
Woldu, 2014 ⁹¹	Arm 2(RN)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: NR SD: NR	60	767	Mean: NR SD: NR	Comp. Arm: - 1.89 P: NR	NR
Yasuda, 2012 ⁹²	Arm 1(NSS)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: NR SD: NR	3	97	Mean: NR SD: NR	Comp. Arm: - 8.9 P: NR	NR
Yasuda, 2012 ⁹²	Arm 2(RN)	Glomerular filtration rate decline: mL/min/1.73 m ²	Mean: NR SD: NR	3	103	Mean: NR SD: NR	Comp. Arm: - 38.1 P: NR	NR
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Creatinine measure: ml/min/1.73m ²	Mean: 99 SD:	5 years	75	Mean: 76 SD:	NR	NR
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Creatinine measure: ml/min/1.73m ²	Mean: 99 SD:	5 years	341	Mean: 64 SD:	NR	NR
Youn, 2013 ¹³⁰	Arm 1(Open PN)	Creatinine measure: mg/dL	Mean: 0.82 SD: 0.17	NR	14	Mean: 0.89 SD: 0.32	NR	Comp. Arm: Arm 2 P: 0.87
Youn, 2013 ¹³⁰	Arm 2(Laparoscopic RFA)	Creatinine measure: mg/dL	Mean: 0.83 SD: 0.22	NR	41	Mean: 0.88 SD: 0.29	NR	NR
Zorn, 2007 ¹⁰³	Arm 1(LPN)	Creatinine measure: mg/dl	Mean: 0.91 SD: NR	6 months	42	Mean: 1 SD: NR	NR	Comp. Arm: Arm 2 P: 0.006
Zorn, 2007 ¹⁰³	Arm 2(LRN)	Creatinine measure: mg/dl	Mean: 0.91 SD: NR	6 months	55	Mean: 1.4 SD: NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Zorn, 2007 ¹⁰³	Arm 1(LPN)	Creatinine Clearance: NR	Mean: 94.3 SD: NR	6 months	42	Mean: 88.7 SD: NR	NR	Comp. Arm: Arm 2 P: <0.001
Zorn, 2007 ¹⁰³	Arm 2(LRN)	Creatinine Clearance: NR	Mean: 100.8 SD: NR	6 months	55	Mean: 64.2 SD: NR	NR	NR
Cooper, 2015 ¹⁴¹	Arm 1(RFA)	Glomerular filtration rate decline: NR	Mean: 52.4 SD: 12.41	NR	9	Mean: 50.8 SD: 17.13	NR	NR
Cooper, 2015 ¹⁴¹	Arm 2(PN)	Glomerular filtration rate decline: NR	Mean: 56.7 SD: 7.7	NR	9	Mean: 55.3 SD: 10.3	NR	NR
Cooper, 2015 ¹⁴¹	Arm 3(RN)	Glomerular filtration rate decline: NR	Mean: 53.6 SD: 13.2	NR	31	Mean: 53.5 SD: 11.2	NR	NR
Cooper, 2015 ¹⁴¹	Arm 1(RFA)	Creatinine measure: NR	Mean: 1.1 SD: 0.6	NR	9	Mean: 1.4 SD: 1.29	NR	NR
Cooper, 2015 ¹⁴¹	Arm 2(PN)	Creatinine measure: NR	Mean: 10.4 SD: 28.4	NR	9	Mean: 0.99 SD: 0.55	NR	NR
Cooper, 2015 ¹⁴¹	Arm 3(RN)	Creatinine measure: NR	Mean: 1.1 SD: 0.9	NR	31	Mean: 1.63 SD: 1.73	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 78.8 SD: 28.9	NR	27	Mean: 71.6 SD: 25.4	NR	Comp. Arm: Arm 2 P: 0.437
Chang, 2015 ¹²⁷	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 86.4 SD: 29.3	NR	29	Mean: 76.9 SD: 25	NR	NR
Danzig, 2015 ¹³⁴	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 73.34 SD: 18.26	NR	15	Mean: 64.15 SD: 10.81	Comp. Arm: - 9.19 RR: NR HR: NR OR: NR RD: NR 95%CI: NR SE: NR SD: 10.65 P: NR	Comp. Arm: Arms 2, 3 and 4 P: 0.001
Danzig, 2015 ¹³⁴	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 89.69 SD: 11.68	NR	65	Mean: 87.77 SD: 11.95	Comp. Arm: - 1.92 RR: NR HR: NR OR: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
							RD: NR 95%CI: NR SE: NR SD: 6.24 P: NR	
Danzig, 2015 ¹³⁴	Arm 3(AS)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 81.45 SD: 12.08	NR	68	Mean: 80.9 SD: 13.07	Comp. Arm: -0.55 RR: NR HR: NR OR: NR RD: NR 95%CI: NR SE: NR SD: 8 P: NR	NR
Danzig, 2015 ¹³⁴	Arm 4(Cryoablation)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 88.55 SD: 12.6	NR	14	Mean: 85.67 SD: 12.75	Comp. Arm: -2.88 RR: NR HR: NR OR: NR RD: NR 95%CI: NR SE: NR SD: 5.53 P: NR	NR
Chung, 2014 ⁹⁴	Arm 1(RN(>/=65years))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 72.4 SD: 13.1	5 years	170	Mean: 47.8 SD: NR	NR	NR
Chung, 2014 ⁹⁴	Arm 2(PN(>/=65years))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 72.1 SD: 14.7	5 years	170	Mean: 65.5 SD: NR	NR	NR
Chung, 2014 ⁹⁴	Arm 3(RN(<65years))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 83.4 SD: 14.1	5 years	452	Mean: 64.3 SD: NR	NR	NR
Chung, 2014 ⁹⁴	Arm 4(PN(<65years))	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 83 SD: 13.2	5 years	452	Mean: 79.9 SD: NR	NR	NR
Chang, 2014 ⁹⁵	Arm 1(RN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 80.1 SD: 17.6	3years	339	Mean: 58.7 SD: NR	NR	NR
Chang, 2014 ⁹⁵	Arm 2(PN)	Glomerular filtration rate decline: ml/min/1.73m ²	Mean: 83.9 SD: 15.1	3years	218	Mean: 78.4 SD: NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
OVERALL SURVIVAL								
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA	5	1047	(82.5)	NR	NR
Badalato, 1997 ⁵⁶	Arm 2(RN)	Overall survival	NA	5	10209	(85)	NR	NR
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA	10	1047	(From KM)	NR	NR
Badalato, 1997 ⁵⁶	Arm 2(RN)	Overall survival	NA	10	10209	(From KM)	NR	NR0.161
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.91-1.36
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.76-1.35
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.76-1.55
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.87-1.91
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.76-1.60
Badalato, 1997 ⁵⁶	Arm 1(PN)	Overall survival	NA		11256		NR	Comp. Arm: RN 95%CI: 0.89-1.40
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Overall survival	NA	NR	50	49(98)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Overall survival	NA	NR	38	32(84.2)	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Overall survival	NA	5	27	NR(85.5)	NR	Comp. Arm: Arm 2 P: 0.14
Chang, 2014 ¹¹⁸	Arm 2(PN)	Overall survival	NA	5	29	NR(96.6)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Overall survival	NA	1	578	NR(96.4)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 2(PN)	Overall survival	NA	1	4402	NR(98.8)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 3(RN)	Overall survival	NA	1	10165	NR(97.2)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Overall survival	NA	2	578	NR(92.5)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 2(PN)	Overall survival	NA	2	4402	NR(97.6)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 3(RN)	Overall survival	NA	2	10165	NR(94.6)	NR	NR
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Overall survival	NA	2	578	NR	NR	Comp. Arm: PN P: 0.32
Choueiri, 2011 ¹³⁷	Arm 1(TA)	Overall survival	NA	2	578	NR	NR	Comp. Arm: RN P: 0.73
Daugherty, 2014 ⁶¹	(Radical Nephrectomy)	Overall survival	NA	5	494	NR(95.5)	NR	Comp. Arm: Arm 2 HR: 0.46 95%CI: 0.21- 1.05 P: 0.07
Daugherty, 2014 ⁶¹	(Partial Nephrectomy)	Overall survival	NA	10	222	NR(98.2)	NR	NR
Daugherty, 2014 ⁶¹	(Radical Nephrectomy)	Overall survival	NA	5	494	NR(89.7)	NR	Comp. Arm: Arm2 HR: 0.5 95%CI: 0.28- 0.92 P: 0.025
Daugherty, 2014 ⁶¹	(Partial Nephrectomy)	Overall survival	NA	10	222	NR(94)	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Overall survival	NA	NR	33	33(100)	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Overall survival	NA	NR	52	52(100)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Overall survival	NA	NR	153	153(100)	NR	Comp. Arm: Arm 2 P: 0.09
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Overall survival	NA	NR	89	86(96.6)	NR	NR
Emara, 2014 ¹¹³	(Cryoablation)	Overall survival	NA	31.3m	56	53(94.6)	NR	NR
Emara, 2014 ¹¹³	(Robot assisted partial nephrectomy)	Overall survival	NA	16.5m	47	47(100)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos	Overall survival	NA	1	36	33(91.7)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	copic radical nephrectomy)							
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Overall survival	NA	1	37	36(97.3)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Overall survival	NA	1	44	43(97.7)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Overall survival	NA	NR	75	74(98.7)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Overall survival	NA	NR	92	92(100)	NR	NR
Houston, 2009 ⁶²	Arm 1(RN)	Overall survival	NA	NR	704	630(89.5)	NR	NR
Houston, 2009 ⁶²	Arm 2(PN)	Overall survival	NA	NR	239	231(96.7)	NR	NR
Huang, 2009 ⁶⁴	Arm 1(PN)	Overall survival	NA	3	556	NR(87)	NR	NR
Huang, 2009 ⁶⁴	Arm 2(RN)	Overall survival	NA	3	2435	NR(80)	NR	NR
Huang, 2009 ⁶⁴	Arm 1(PN)	Overall survival	NA	5	556	NR(74)	NR	NR
Huang, 2009 ⁶⁴	Arm 2(RN)	Overall survival	NA	5	2435	NR(68)	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Overall survival	NA	5	67	NR(100)	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Overall survival	NA	5	195	NR(86.5)	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Overall survival	NA	5	324	NR(95.2)	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 1(T1b-Partial Nephrectomy)	Overall survival	NA	10	67	NR(100)	NR	Comp. Arm: Arm 2 P: 0.84
lizuka, 2012 ¹⁰⁷	Arm 2(T1b-Radical Nephrectomy)	Overall survival	NA	10	195	NR(67.2)	NR	NR
lizuka, 2012 ¹⁰⁷	Arm 3(T1a-Partial Nephrectomy)	Overall survival	NA	10	324	NR(81.1)	NR	Comp. Arm: Arm 2 P: <0.01
Indudhara, 1997 ⁴⁷	Arm 1(nephron sparing surgery)	Overall survival	NA	3.1	35	33(0.91)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Indudhara, 1997 ⁴⁷	Arm 2(radical nephrectomy)	Overall survival	NA	3.6	71	67(0.943661971830986)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Kates, 2011, ⁶⁵	Arm 1(PN)	Overall survival	NA	10	2301	2201(95.7)	NR	NR
Kates, 2011, ⁶⁵	Arm 2(RN)	Overall survival	NA	10	1915	1677(87.6)	NR	NR
Kopp, 2014 ⁶⁶	Arm 1(RN)	Overall survival	NA	5	122	NR(80)	NR	Comp. Arm: Arm 2 P: 0.291
Kopp, 2014 ⁶⁶	Arm 2(PN)	Overall survival	NA	5	80	NR(83.3)	NR	NR
Kyung, 2014 ⁶⁷	(Radical Nephrectomy)	Overall survival	NA	5	82	NR(90.7)	95%CI: 77-91 P: NR	NR
Kyung, 2014 ⁶⁷	(Partial Nephrectomy)	Overall survival	NA	5	53	NR(93.8)	95%CI: 80-98 P: NR	NR
Lane, 2010 ⁶⁸	Arm 1(PN Limited ischemia)	Overall survival	NA	5	804	NR(95.7)	NR	NR
Lane, 2010 ⁶⁸	Arm 2(PN Unknown ischemia)	Overall survival	NA	5	546	NR(93.9)	NR	NR
Lane, 2010 ⁶⁸	Arm 3(PN Extended ischemia)	Overall survival	NA	5	483	NR(94)	NR	NR
Lane, 2010 ⁶⁸	Arm 4(RN)	Overall survival	NA	5	569	NR(84.3)	NR	NR
Lane, 2010 ¹³⁶	Arm 1(Active surveillance)	Overall survival	NA	5	105	NR(58)	NR	NR
Lane, 2010 ¹³⁶	Arm 2(Radical Nephrectomy)	Overall survival	NA	5	146	NR(72)	NR	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Overall survival	NA	NR	35	26(74.3)	NR	NR
Li, 2007 ⁶⁹	Arm 2(RN)	Overall survival	NA	NR	128	104(81.3)	NR	NR
Li, 2007 ⁶⁹	Arm 1(PN)	Overall survival	NA	5	35	NR(85)	NR	P: 0.126
Li, 2007 ⁶⁹	Arm 2(RN)	Overall survival	NA	5	128	NR(91.4)	NR	NR
Mariusdottir, 2013 ⁴⁹	Arm 2(Radical nephrectomy)	Overall survival	NA	5	44	34(65)	NR	NR
Mariusdottir, 2013 ⁴⁹	Arm 1(Partial nephrectomy)	Overall survival	NA	5	44	44(100)	NR	NR
Medina-Polo, 2011 ⁷³	Arm 1(NSS)	Overall survival	NA	4	116	105(90.6)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Medina-Polo, 2011 ⁷³	Arm 2(Radical nephrectomy)	Overall survival	NA	4	174	140(80.5)	NR	NR
Meskawi, 2014 ⁷⁴	Arm 1(PN)	Overall survival	NA	5	6104	NR(7)	NR	NR
Meskawi, 2014 ⁷⁴	Arm 1(RN)	Overall survival	NA	10	6104	NR(23.8)	NR	NR
Meskawi, 2014 ⁷⁴	Arm 2(PN)	Overall survival	NA	5	1526	NR(9.1)	NR	NR
Meskawi, 2014 ⁷⁴	Arm 2(RN)	Overall survival	NA	10	1526	NR(20.3)	NR	P: 0.3
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Overall survival	NA	5	34	NR(83.1)	NR	NR
Milonas, 2013 ⁵⁰	Arm 2(RN)	Overall survival	NA	5	317	NR(71.2)	NR	NR
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Overall survival	NA	7	34	NR(64.4)	NR	NR
Milonas, 2013 ⁵⁰	Arm 2(RN)	Overall survival	NA	7	317	NR(63.1)	NR	NR
Milonas, 2013 ⁵⁰	Arm 1(NSS)	Overall survival	NA	12	34	NR(55.2)	NR	P: 0.437
Milonas, 2013 ⁵⁰	Arm 2(RN)	Overall survival	NA	12	317	NR(53.7)	NR	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN)	Overall survival	NA	5	143	NR(81.3)	NR	NR
Minervini, 2012 ¹⁰⁸	Arm 2(TE)	Overall survival	NA	5	332	NR(82.9)	NR	NR
Minervini, 2012 ¹⁰⁸	Arm 1(RN)	Overall survival	NA	10	143	NR(71.5)	NR	NR
Minervini, 2012 ¹⁰⁸	Arm 2(TE)	Overall survival	NA	10	332	NR(71.9)	NR	NR
Mues, 2012 ¹²⁰	Arm 1(ablation)	Overall survival	NA	31	98	0(0)	NR	Comp. Arm: Arm 2 P: 0.5
Mues, 2012 ¹²⁰	Arm 2(PN)	Overall survival	NA	24	100	1(1)	NR	NR
Olweny, 2012 ¹²⁵	Arm 1(RFA)	Overall survival	NA	5	37	NR(97.2)	NR	NR
Olweny, 2012 ¹²⁵	Arm 2(PN)	Overall survival	NA	5	37	NR(100)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Overall survival	NA	3	48	NR(93)	NR	Comp. Arm: Arm 2 P: 0.74
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic)	Overall survival	NA	3	30	NR(93)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	Renal cryoablation)							
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Overall survival	NA	5	48	NR(93)	NR	Comp. Arm: Arm 2 P: 0.74
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Overall survival	NA	5	30	NR(88)	NR	NR
Patel, 2014 ¹³²	Arm 1(DT(Deferred Treatmet)-Low Cardiovascular risk)	Overall survival	NA	100 months	754	NR(34)	NR	NR
Patel, 2014 ¹³²	Arm 2(PN-Low Cardiovascular risk)	Overall survival	NA	100 months	1849	NR(71)	NR	Comp. Arm: Arm 1 HR: 0.35 95%CI: 0.29 - 0.41 P: <0.01
Patel, 2014 ¹³²	Arm 3(RN-Low Cardiovascular risk)	Overall survival	NA	100 months	4574	NR(63)	NR	Comp. Arm: Arm 2 HR: 0.47 95%CI: 0.41 - 0.54 P: <0.01
Patel, 2014 ¹³²	Arm 1(DT(Deferred Treatmet)-High Cardiovascular risk)	Overall survival	NA	100 months	754	NR(78)	NR	NR
Patel, 2014 ¹³²	Arm 2(PN-High Cardiovascular risk)	Overall survival	NA	100 months	1849	NR(87)	NR	Comp. Arm: Arm 1 HR: 0.48 95%CI: 0.36 - 0.65 P: <0.01
Patel, 2014 ¹³²	Arm 3(RN-High Cardiovascular risk)	Overall survival	NA	100 months	4574	NR(78)	NR	Comp. Arm: Arm 2 HR: 0.65 95%CI: 0.52 -

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								0.80 P: <0.01
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Overall survival	NA	1	754	NR(88.1)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 2(PN)	Overall survival	NA	1	1849	NR(98.3)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 3(RN)	Overall survival	NA	1	4574	NR(96.8)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Overall survival	NA	3	754	NR(63.3)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 2(PN)	Overall survival	NA	3	1849	NR(91.8)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 3(RN)	Overall survival	NA	3	4574	NR(86.7)	NR	95%CI:
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management)	Overall survival	NA	5	754	NR(46.4)	NR	Comp. Arm: Arm 2 HR: 0.4 95%CI: 0.34 to - 0.46' P: <0.01
Patel, 2014 ¹³¹	Arm 2(PN)	Overall survival	NA	5	1849	NR(83.1)	NR	Comp. Arm: Arm 3 HR: 0.8 95%CI: 0.71 to 0.90 P: <0.01
Patel, 2014 ¹³¹	Arm 3(RN)	Overall survival	NA	5	4574	NR(76.1)	NR	Comp. Arm: Arm 1 HR: 0.5 95%CI: 0.45 to 0.56 P: <0.01
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management <75 years)	Overall survival	NA	5	754	NR	NR	Comp. Arm: Arm 2 HR: 0.44 95%CI: 0.35 to - 0.56 P: <0.01
Patel, 2014 ¹³¹	Arm 2(PN<75 years)	Overall survival	NA	5	1849	NR	NR	Comp. Arm: Arm 3 HR: 0.87 95%CI: 0.73 - 1.02 P: 0.09
Patel, 2014 ¹³¹	Arm 3(RN<75 years)	Overall survival	NA	5	4574	NR	NR	Comp. Arm: Arm 1 HR:

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								0.51 95%CI: 0.42 - 0.63 P: <0.01
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management 75- <80years)	Overall survival	NA	5	754	NR	NR	Comp. Arm: Arm 2 HR: 0.33 95%CI: 0.25 to - 0.43 P: <0.01
Patel, 2014 ¹³¹	Arm 2(PN75- <80years)	Overall survival	NA	5	1849	NR	NR	Comp. Arm: Arm 3 HR: 0.86 95%CI: 0.7 - 1.07 P: 0.8
Patel, 2014 ¹³¹	Arm 3(RN75- <80years)	Overall survival	NA	5	4574	NR	NR	Comp. Arm: Arm 1 HR: 0.38 95%CI: 0.3 - 0.48 P: <0.01
Patel, 2014 ¹³¹	Arm 1(Non Surgical Management>=80 years)	Overall survival	NA	5	754	NR	NR	Comp. Arm: Arm 2 HR: 0.36 95%CI: 0.27 to - 0.48 P: <0.01
Patel, 2014 ¹³¹	Arm 2(PN>=80years)	Overall survival	NA	5	1849	NR	NR	Comp. Arm: Arm 3 HR: 0.65 95%CI: 0.5 - 0.84 P: <0.01
Patel, 2014 ¹³¹	Arm 3(RN>=80years)	Overall survival	NA	5	4574	NR	NR	Comp. Arm: Arm 1 HR: 0.55 95%CI: 0.46 - 0.66 P: <0.01

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	Median 4.8 years	36	33	NR	NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	Median 7.81	37	31	NR	NR
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Overall survival	NA	Median 4.18	32	20	NR	NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Overall survival	NA	NR	39	29	NR	NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	5	36	(92)	NR	Comp. Arm: RN young 95%CI: 0.655
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	5	37	(91)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Overall survival	NA	5	32	(72)	NR	Comp. Arm: RN old 95%CI: 0.058
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Overall survival	NA	5	39	(89)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	10	36	(84)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Overall survival	NA	10	37	(86)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Overall survival	NA	10	32	(36)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Overall survival	NA	10	39	(68)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Overall survival	NA	5	101	NR(83)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Overall survival	NA	5	146	NR(86)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Overall survival	NA	10	101	NR(64)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Overall survival	NA	10	146	NR(76)	NR	NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.6 95%CI: 1.03-2.3 P: NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.5 95%CI: 1.1-1.9 P: NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.7 95%CI: 1.1-2.5 P: NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.4 95%CI: 1.04-2.0 P: NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.3 95%CI: 1.1-1.6 P: NR
Smaldone, 2012 ⁷⁹	Overall(Overall)	Overall survival	NA	13.7	5496	NR	NR	HR: 1.5 95%CI: 1.02-2.3 P: NR
Smaldone, 2012 ⁷⁹	Arm 1(PN)	Overall survival	NA	13.7	1665	NR(35)	NR	NR
Smaldone, 2012 ⁷⁹	Arm 2(RN)	Overall survival	NA	13.6	3831	NR(25)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN)	Overall survival	NA	2	924	NR(7.1)	NR	NR
Sun, 2012 ¹⁵²	Arm 2(RN)	Overall survival	NA	2	924	NR(7.9)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN)	Overall survival	NA	5	924	NR(20.5)	NR	Comp. Arm: Arm 2 HR: 0.84 95%CI: 0.7-0.99 P: 0.043

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Sun, 2012 ¹⁵²	Arm 2(RN)	Overall survival	NA	5	924	NR(24.1)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN age ≥ 75)	Overall survival	NA	2	414	NR(8.9)	NR	NR
Sun, 2012 ¹⁵²	Arm 2(RN age ≥ 75)	Overall survival	NA	2	405	NR(10.1)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN age ≥ 75)	Overall survival	NA	5	414	NR(26)	NR	Comp. Arm: Arm 2 HR: 0.79 95%CI: 0.62- 1.01 P: 0.05
Sun, 2012 ¹⁵²	Arm 2(RN age ≥ 75)	Overall survival	NA	5	405	NR(28.5)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN ≥ 2 comorbidities)	Overall survival	NA	2	612	NR(7.9)	NR	NR
Sun, 2012 ¹⁵²	Arm 2(RN ≥ 2 comorbidities)	Overall survival	NA	2	619	NR(8.6)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN ≥ 2 comorbidities)	Overall survival	NA	5	612	NR(22.2)	NR	Comp. Arm: Arm 2 HR: 0.84 95%CI: 0.68- 1.04 P: 0.1
Sun, 2012 ¹⁵²	Arm 2(RN ≥ 2 comorbidities)	Overall survival	NA	5	619	NR(26.1)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN age ≥ 75 and ≥ 2 comorbidities)	Overall survival	NA	2	215	NR(10)	NR	NR
Sun, 2012 ¹⁵²	Arm 2(RN age ≥ 75 and ≥ 2 comorbidities)	Overall survival	NA	2	215	NR(12.4)	NR	NR
Sun, 2012 ¹⁵²	Arm 1(PN age ≥ 75 and ≥ 2 comorbidities)	Overall survival	NA	5	215	NR(28.4)	NR	Comp. Arm: Arm 2 HR: 0.71 OR: 95%CI: 0.52- 0.97 P: 0.03
Sun, 2012 ¹⁵²	Arm 2(RN age ≥ 75 and ≥ 2 comorbidities)	Overall survival	NA	5	215	NR(32.6)	NR	NR
takagi, 2011 ⁸¹	Arm 1(PN-eGFR 45 - 59)	Overall survival	NA	5	30	26(86)	NR	P: 0.0835

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
takagi, 2011 ⁸¹	Arm 2(RN-eGFR 45 - 59)	Overall survival	NA	5	38	36(94)	NR	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Overall survival	NA	5	21	NR(63)	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Overall survival	NA	5	39	NR(97)	NR	NR
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Overall survival	NA	10	21	NR(48)	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Overall survival	NA	10	39	NR(97)	NR	P: <0.009
Tan, 2012 ⁸²	Arm 1(PN)	Overall survival	NA	NR	1925	1438(74.7)	NR	NR
Tan, 2012 ⁸²	Arm 2(RN)	Overall survival	NA	NR	5213	3049(58.5)	NR	NR
Tanagho, 2013 ¹²⁶	(Cryoablation)	Overall survival	NA	5	267	NR(77.1)	NR	NR
Tanagho, 2013 ¹²⁶	(Robot assisted partial nephrectomy)	Overall survival	NA	5	233	NR(91.7)	NR	NR
Thompson, 2008 ⁸³	Arm 1(PN)	Overall survival	NA	NR	358	296(82.7)	NR	NR
Thompson, 2008 ⁸³	Arm 2(RN)	Overall survival	NA	NR	290	206(71)	NR	NR
Thompson, 2008 ⁸³	Arm 3(PN- <65years)	Overall survival	NA	10	187	NR(82)	NR	NR
Thompson, 2008 ⁸³	Arm 4(RN- <65years)	Overall survival	NA	10	140	NR(93)	NR	NR
Thompson, 2014 ¹²²	Arm 1(cT1a-Partial Nephrectomy)	Overall survival	NA	3	1057	NR(95)	NR	Comp. Arm: Arm 2 P: <0.001
Thompson, 2014 ¹²²	Arm 2(cT1a-Radiofrequency Ablation)	Overall survival	NA	3	180	NR(82)	NR	Comp. Arm: Arm 3 P: 0.42
Thompson, 2014 ¹²²	Arm 3(cT1a-Cryoablation)	Overall survival	NA	3	187	NR(88)	NR	NR
Thompson, 2014 ¹²²	Arm 4(cT1b-Partial Nephrectomy)	Overall survival	NA	3	326	NR(93)	NR	Comp. Arm: Arm 5 P: 0.45
Thompson, 2014 ¹²²	Arm 5(cT1b-Cryoablation)	Overall survival	NA	3	53	NR(74)	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Overall survival	NA	2	36	(91.2)	NR	NR0.785

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Overall survival	NA	2	36	(88.5)	NR	NR0.785
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Overall survival	NA	2	29	(83.9)	NR	NR0.785
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Overall survival	NA	2	36	(100)	NR	NR0.0009
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Overall survival	NA	2	36	(69.6)	NR	NR0.0009
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Overall survival	NA	2	29	(33.2)	NR	NR0.0009
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Overall survival	NA	10	268	201(75.7)	NR	Comp. Arm: RR: HR: 1.5 OR: RD: 95%CI: 1.03- 2.16 noninferiority, 0.77;superiority, 0.03
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Overall survival	NA	10	273	223(81.1)	NR	Comp. Arm: RR: HR: 1.5 OR: RD: 95%CI: 1.03- 2.16 noninferiority, 0.77;superiority, 0.03
Weight, 2010 ⁸⁹	Arm 1(RN-Upstaged Cohort)	Overall survival	NA	6	117	NR(46)	NR	NR
Weight, 2010 ⁸⁹	Arm 2(PN-Upstaged Cohort)	Overall survival	NA	6	96	NR(65)	NR	Comp. Arm: Arm 1 P: 0.01
Weight, 2010 ⁸⁹	Arm 3(RN-High Grade cohort)	Overall survival	NA	6	43	NR(29)	NR	NR
Weight, 2010 ⁸⁹	Arm 4(PN-High Grade cohort)	Overall survival	NA	6	52	NR(73)	NR	Comp. Arm: Arm 1 P: <0.0001

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Weight, 2010 ⁹⁰	Arm 1(RN)	Overall survival	NA	NR	480	NR(78)	NR	NR
Weight, 2010 ⁹⁰	Arm 2(PN)	Overall survival	NA	NR	524	NR(85)	NR	Comp. Arm: Arm 1 HR: 0.903 95%CI: 0.56-1.5 P: 0.68
Whitson, 2012 ¹²⁴	Overall	Overall survival	NA	NR	8818	716(8.1)	NR	NR
Yokoyama, 2011 ¹⁵³	Arm 1(Partial nephrectomy)	Overall survival	NA	Median 37 month	75	72	NR	NR
Yokoyama, 2011 ¹⁵³	Arm 2(Radical nephrectomy)	Overall survival	NA	Median 45 month	341	318	NR	NR
Zini, 2009 ⁹³	Arm 1(Partial nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	5	2153	(89.3)	NR	Comp. Arm: Arm1 RR: HR: Reference OR: RD: 95%CI: 0.001
Zini, 2009 ⁹³	Arm 2(Radical nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	5	5616	(84.4)	NR	Comp. Arm: Arm1 RR: HR: 1.23 OR: RD: 95%CI: 0.001
Zini, 2009 ⁹³	Arm 3(Partial nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	5	1283	(88.9)	NR	Comp. Arm: Arm3 RR: HR: Reference OR: RD: 95%CI: 0.048
Zini, 2009 ⁹³	Arm 4(Radical nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	5	3166	(85.5)	NR	Comp. Arm: Arm3 RR: HR: 1.19 OR: RD: 95%CI: 0.048
Zini, 2009 ⁹³	Arm 1(Partial nephrectomy (matched for age,	Overall survival	NA	10	2153	(71.3)	NR	Comp. Arm: Arm1 RR: HR: Reference

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	tumor size, year of surgery, not by Furhman grade))							OR: RD: 95%CI: 0.001
Zini, 2009 ⁹³	Arm 2(Radical nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	10	5616	(68.2)	NR	Comp. Arm: Arm1 RR: HR: 1.23 OR: RD: 95%CI: 0.001
Zini, 2009 ⁹³	Arm 3(Partial nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	10	1283	(70.9)	NR	Comp. Arm: Arm3 RR: HR: Reference OR: RD: 95%CI: 0.048
Zini, 2009 ⁹³	Arm 4(Radical nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	10	3166	(68.8)	NR	Comp. Arm: Arm3 RR: HR: 1.19 OR: RD: 95%CI: 0.048
Zini, 2009 ⁹³	Arm 1(Partial nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	5	2153	(88.3)	NR	NR<0.001
Zini, 2009 ⁹³	Arm 2(Radical nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	5	5616	(83.7)	NR	NR<0.001
Zini, 2009 ⁹³	Arm 3(Partial nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	5	1283	(87.6)	NR	NR0.02
Zini, 2009 ⁹³	Arm 4(Radical nephrectomy	Overall survival	NA	5	3166	(84.4)	NR	NR0.02

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	(matched for age, tumor size, year of surgery, Furhman grade))							
Zini, 2009 ⁹³	Arm 1(Partial nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	10	2153	(72.9)	NR	NR<0.001
Zini, 2009 ⁹³	Arm 2(Radical nephrectomy (matched for age, tumor size, year of surgery, not by Furhman grade))	Overall survival	NA	10	5616	(68.4)	NR	NR<0.001
Zini, 2009 ⁹³	Arm 3(Partial nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	10	1283	(72.9)	NR	NR0.02
Zini, 2009 ⁹³	Arm 4(Radical nephrectomy (matched for age, tumor size, year of surgery, Furhman grade))	Overall survival	NA	10	3166	(69.4)	NR	NR0.02
O'Malley,2014 ⁹⁷	Arm 1(PN)	Overall survival	NA	5	1893	NR(79.5)	NR	Comp. Arm: Arm 2 P: <0.001
O'Malley,2014 ⁹⁷	Arm 2(RN)	Overall survival	NA	5	10864	NR(70.1)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Overall survival	NA	5	27	NR(85.5)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Overall survival	NA	5	29	NR(96.6)	NR	NR
Chung, 2014 ⁹⁴	Arm 1(RN(>/=65years))	Overall survival	NA	5	170	NR(91.9)	NR	P:

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Chung, 2014 ⁹⁴	Arm 2(PN(>/=65years))	Overall survival	NA	5	170	NR(94.7)	NR	Comp. Arm: Arm 1 P: 0.698
Chung, 2014 ⁹⁴	Arm 3(RN(<65years))	Overall survival	NA	5	452	NR(96.3)	NR	P:
Chung, 2014 ⁹⁴	Arm 4(PN(<65years))	Overall survival	NA	5	452	NR(99.7)	NR	Comp. Arm: Arm 3 P: 0.015
Chang, 2014 ⁹⁵	Arm 1(RN)	Overall survival	NA	3	339	305(89.97)	NR	NR
Chang, 2014 ⁹⁵	Arm 2(PN)	Overall survival	NA	3	218	201(92.2)	NR	NR
HARMS								
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	48	2	NR	NR
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Harm Name: Other-define Define: Thrombophlebitis If Clavien,report grade:	NA	NR	48	0	NR	NR
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Harm Name: Wound complications (hernia, dehiscence) Define: Minor flank protrusion If Clavien,report grade:	NA	NR	48	1	NR	NR
Barbalias, 1999 ⁴⁵	Arm 2(Radical nephrectomy)	Harm Name: Acute kidney injury Define: Hemodialysis If Clavien,report grade:	NA	NR	48	0(0)	NR	NR
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	41	1	NR	NR
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Harm Name: Other-define Define: Thrombophlebitis If Clavien,report grade:	NA	NR	41	1	NR	NR
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Harm Name: Wound complications (hernia, dehiscence) Define: Minor flank protrusion If Clavien,report grade:	NA	NR	41	2	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Barbalias, 1999 ⁴⁵	Arm 1(Partial nephrectomy)	Harm Name: Acute kidney injury Define: Hemodialysis If Clavien,report grade:	NA	NR	41	0(0)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Other-define Define: Genitourinary If Clavien,report grade: NA	NA	30mont hs	1066	NR(13)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Hemorrhage Define: Bleeding If Clavien,report grade: NA	NA	30mont hs	1066	NR(4)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Wound complications (hernia, dehiscence) Define: Wound If Clavien,report grade: NA	NA	30mont hs	1066	NR(2)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Respiratory Define: respiratory failure If Clavien,report grade: NA	NA	30mont hs	1066	NR(12)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Infectious disease Define: infection If Clavien,report grade: NA	NA	30mont hs	1066	NR(10)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Gastrointestinal Define: gastrointestinal If Clavien,report grade: NA	NA	30mont hs	1066	NR(10)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Cardiovascular Define: cardiac If Clavien,report grade: NA	NA	30mont hs	1066	NR(3)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Other-define Define: renal failure If Clavien,report grade: NA	NA	30mont hs	1066	NR(2)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade: NA	NA	30mont hs	1066	NR(2)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Hematologic (thromboembolic) Define: E/DVT If Clavien,report grade: NA	NA	30mont hs	1066	NR(1)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 1(LapRN)	Harm Name: Neurologic Define: neurological If Clavien,report grade: NA	NA	30mont hs	1066	NR(0)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Other-define Define: Genitourinary If Clavien,report grade: NA	NA	30mont hs	157	NR(20)	NR	Comp. Arm: Arm 1 OR: 1.7 P: NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Hemorrhage Define: Bleeding If Clavien,report grade: NA	NA	30mont hs	157	NR(8)	NR	Comp. Arm: Arm 1 OR: 2.2 P: NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Wound complications (hernia, dehiscence) Define: Wound If Clavien,report grade: NA	NA	30mont hs	157	NR(1)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Respiratory Define: respiratory failure If	NA	30mont hs	157	NR(15)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Infectious disease Define: infection If Clavien,report grade: NA	NA	30mont hs	157	NR(15)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Gastrointestinal Define: gastrointestinal If Clavien,report grade: NA	NA	30mont hs	157	NR(9)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Cardiovascular Define: cardiac If Clavien,report grade: NA	NA	30mont hs	157	NR(4)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Other-define Define: renal failure If Clavien,report grade: NA	NA	30mont hs	157	NR(5)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade: NA	NA	30mont hs	157	NR(2)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Hematologic (thromboembolic) Define: E/DVT If Clavien,report grade: NA	NA	30mont hs	157	NR(1)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 3(LPN)	Harm Name: Neurologic Define: neurological If Clavien,report grade: NA	NA	30mont hs	157	NR(0)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Other-define Define: Genitourinary If	NA	30mont hs	1094	NR(20)	NR	Comp. Arm: Arm 1 OR: 1.7 P: NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Hemorrhage Define: Bleeding If Clavien,report grade: NA	NA	30mont hs	1094	NR(5)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Wound complications (hernia, dehiscence) Define: Wound If Clavien,report grade: NA	NA	30mont hs	1094	NR(1)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Respiratory Define: respiratory failure If Clavien,report grade: NA	NA	30mont hs	1094	NR(13)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Infectious disease Define: infection If Clavien,report grade: NA	NA	30mont hs	1094	NR(10)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Gastrointestinal Define: gastrointestinal If Clavien,report grade: NA	NA	30mont hs	1094	NR(9)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Cardiovascular Define: cardiac If Clavien,report grade: NA	NA	30mont hs	1094	NR(3)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Other-define Define: renal failure If Clavien,report grade: NA	NA	30mont hs	1094	NR(4)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Infectious disease Define: sepsis If	NA	30mont hs	1094	NR(2)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Hematologic (thromboembolic) Define: E/DVT If Clavien,report grade: NA	NA	30months	1094	NR(1)	NR	NR
Becker, 2014 ¹⁰⁴	Arm 2(OPN)	Harm Name: Neurologic Define: neurological If Clavien,report grade: NA	NA	30months	1094	NR(0)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	50	2(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	50	1(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Need for subsequent intervention Define: NA If Clavien,report grade: NA	NA	NR	50	3(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Loss of kidney Define: NA If Clavien,report grade: NA	NA	NR	50	0(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	50	2(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If	NA	NR	50	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Need for subsequent intervention Define: NA If Clavien,report grade: NA	NA	NR	50	3(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 1(LPN)	Harm Name: Loss of kidney Define: NA If Clavien,report grade: NA	NA	NR	50	0(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	38	0(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	38	1(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Need for subsequent intervention Define: NA If Clavien,report grade: NA	NA	NR	38	1(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Loss of kidney Define: NA If Clavien,report grade: NA	NA	1year	38	1(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	38	0(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	38	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Need for subsequent intervention Define: NA If Clavien,report grade: NA	NA	NR	38	1(NR)	NR	NR
Bensalah, 2007 ¹¹¹	Arm 2(LRFA)	Harm Name: Loss of kidney Define: NA If Clavien,report grade: NA	NA	1year	38	1(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	108	6(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	108	4(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	108	3(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	108	6(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	108	2(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	108	4(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	NR	108	4(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	108	1(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	108	0(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 2(MRN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: V	NA	NR	108	0(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	45	5(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	45	2(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	45	2(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	45	1(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	45	0(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Respiratory Define:	NA	NR	45	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		NA If Clavien,report grade: NA						
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	NR	45	0(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	45	0(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	45	1(NR)	NR	NR
Brewer, 2012 ⁹⁸	Arm 1(MPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: V	NA	NR	45	0(NR)	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR0	27	0(NR)	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR1	27	NR	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR1	27	NR	NR	NR
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Listed by severity of complications (using	NA	NR2	27	NR	NR	SD: 0.44 P:

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		the Clavien Grading System if available) Define: NA If Clavien,report grade: I						
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR2	27	NR	NR	SD: 0.949 P:
Chang, 2014 ¹¹⁸	Arm 1(RFA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIa	NA	NR3	27	NR	NR	SD: 0.933 P:
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR0	29	0(NR)	NR	NR
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR0	29	0(NR)	NR	NR
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR1	29	NR	NR	NR
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR0	29	NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR1	29	NR	NR	NR
Chang, 2014 ¹¹⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIa	NA	NR2	29	NR	NR	NR
Deklaj, 2010 ¹⁴²	Arm 1(LRN)	Harm Name: Other-define Define: Intraoperative complication If Clavien,report grade: NA	NA	NR	19	NR(5.3)	NR	P: 0.38
Deklaj, 2010 ¹⁴²	Arm 1(LRN)	Harm Name: Other-define Define: postoperative complication If Clavien,report grade: NA	NA	NR	19	NR(21.1)	NR	P: 0.87
Deklaj, 2010 ¹⁴²	Arm 2(LPN)	Harm Name: Other-define Define: Intraoperative complication If Clavien,report grade: NA	NA	NR	28	NR(10.7)	NR	P: 0.38
Deklaj, 2010 ¹⁴²	Arm 2(LPN)	Harm Name: Other-define Define: postoperative complication If Clavien,report grade: NA	NA	NR	28	NR(21.4)	NR	P: 0.87
Deklaj, 2010 ¹⁴²	Arm 3(LAT)	Harm Name: Other-define Define:	NA	NR	19	NR(5.3)	NR	P: 0.38

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Intraoperative complication If Clavien,report grade: NA						
Deklaj, 2010 ¹⁴²	Arm 3(LAT)	Harm Name: Other-define Define: postoperative complication If Clavien,report grade: NA	NA	NR	19	NR(15.8)	NR	P: 0.87
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	52	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	52	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade:	NA	NR	52	2	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Cardiovascular Define: vascular injury If Clavien,report grade:	NA	NR	52	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: bowel injury If Clavien,report grade:	NA	NR	52	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Cardiovascular Define: non-surgical cardiovascular complication If Clavien,report grade:	NA	NR	52	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Neurologic Define: post-op delirium If Clavien,report grade:	NA	NR	52	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Other-define Define:	NA	NR	52	1	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		liver/splenic injury If Clavien,report grade:						
Deklaj, 2010 ⁹⁹	Arm 2(Radical nephrectomy)	Harm Name: Positive Surgical Margin Define: If Clavien,report grade:	NA	NR	52	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	33	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	33	4	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade:	NA	NR	33	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Cardiovascular Define: vascular injury If Clavien,report grade:	NA	NR	33	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: bowel injury If Clavien,report grade:	NA	NR	33	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Cardiovascular Define: non-surgical cardiovascular complication If Clavien,report grade:	NA	NR	33	1	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Neurologic Define: post-op delirium If Clavien,report grade:	NA	NR	33	0	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Other-define Define: liver/splenic injury If Clavien,report grade:	NA	NR	33	3	NR	NR
Deklaj, 2010 ⁹⁹	Arm 1(Partial nephrectomy)	Harm Name: Positive Surgical Margin	NA	NR	33	1	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: If Clavien,report grade:						
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	153	15(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	153	1(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: abscess Define: NA If Clavien,report grade: NA	NA	NR	153	1(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	153	4(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Gastrointestinal Define: Prolonged ileus If Clavien,report grade: NA	NA	NR	153	2(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Respiratory Define: Atelectasis, pleural effusion, pneumonia, If Clavien,report grade: NA	NA	NR	153	7(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Hematologic (thromboembolic) Define: Pulmonary embolism,Internal jugular vein thrombus,deep vein thrombus If Clavien,report grade: NA	NA	NR	153	6(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Cardiovascular Define: Atrial fibrillation, congestive heart failure If Clavien,report grade: NA	NA	NR	153	3(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 1(Laparoscopic PN)	Harm Name: Wound complications (hernia, dehiscence) Define: dehiscence, hernia If Clavien,report grade: NA	NA	NR	153	4(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	78	1(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: abscess Define: NA If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Gastrointestinal Define: Prolonged ileus If Clavien,report grade: NA	NA	NR	78	1(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Respiratory Define: Atelectasis, pneumothorax, pneumonia, pleural	NA	NR	78	4(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		injury If Clavien,report grade: NA						
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Hematologic (thromboembolic) Define: Pulmonary embolism, Internal jugular vein thrombus, deep vein thrombus If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Cardiovascular Define: Atrial fibrillation, congestive heart failure If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Desai, 2005 ¹¹²	Arm 2(Cryoablation)	Harm Name: Wound complications (hernia, dehiscence) Define: dehiscence, hernia If Clavien,report grade: NA	NA	NR	78	0(NR)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	47	2(4.3)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	47	0(0)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	47	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	NR	47	0(0)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	47	2(4.3)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	47	0(0)	NR	NR
Emara, 2014 ¹¹³	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIB	NA	NR	47	1(1.8)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	56	3(5.4)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	56	1(1.8)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	56	1(1.8)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	NR	56	1(1.8)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	56	3(5.4)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	56	1(1.8)	NR	NR
Emara, 2014 ¹¹³	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIB	NA	NR	56	2(4.3)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneoscopic radical nephrectomy)	Harm Name: Cardiovascular Define: Deep Vein Thrombosis If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneoscopic radical nephrectomy)	Harm Name: Cardiovascular Define: Pulmonary Embolism If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneoscopic radical nephrectomy)	Harm Name: Cardiovascular Define: Myocardial	NA	NR	36	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Infarction If Clavien,report grade:						
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Other-define Define: Pneumothorax If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Infectious disease Define: Sepsis If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Infectious disease Define: Pneumonia If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Acute kidney injury Define: Acute renal failure If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	36	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	36	2(5.6)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 1(Retroperitoneos copic radical nephrectomy)	Harm Name: Wound complications (hernia, dehiscence) Define: Secondary wound healing If Clavien,report grade:	NA	NR	36	1(2.8)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Cardiovascular Define: Deep Vein Thrombosis If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Cardiovascular Define: Pulmonary Embolism If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Cardiovascular Define: Myocardial Infarction If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Other-define Define: Pneumothorax If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Infectious disease Define: Sepsis If Clavien,report grade:	NA	NR	37	1(2.7)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Infectious disease Define: Pneumonia If Clavien,report grade:	NA	NR	37	1(2.7)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Acute kidney injury Define: Acute renal failure If Clavien,report grade:	NA	NR	37	1(2.7)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	37	1(2.7)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	37	2(5.4)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 2(Open radical nephrectomy)	Harm Name: Wound complications (hernia, dehiscence) Define: Secondary wound healing If Clavien,report grade:	NA	NR	37	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Cardiovascular Define: Deep Vein Thrombosis If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Cardiovascular Define: Pulmonary Embolism If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Cardiovascular Define: Myocardial Infarction If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Other-define Define: Pneumothorax If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Infectious disease Define: Sepsis If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Infectious disease Define:	NA	NR	44	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Pneumonia If Clavien,report grade:						
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Acute kidney injury Define: Acute renal failure If Clavien,report grade:	NA	NR	44	2(4.6)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	44	0(0)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	44	2(4.6)	NR	NR
Gratzke, 2009 ¹¹⁰	Arm 3(Nephron-sparing surgery)	Harm Name: Wound complications (hernia, dehiscence) Define: Secondary wound healing If Clavien,report grade:	NA	NR	44	1(2.3)	NR	NR
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	226	19(8)	NR	NR
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	210	36(17)	NR	Comp. Arm: Arm 2 P: 0.004
Guillotreau, 2012 ¹¹⁴	Arm 1(RPN)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	210	6(3)	NR	Comp. Arm: Arm 2 P: 0.71
Guillotreau, 2012 ¹¹⁴	Arm 2(LCA)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	226	8(3)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Hemorrhage Define:	NA	NR	92	5(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		NA If Clavien,report grade: NA						
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade: NA	NA	NR	92	2(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Respiratory Define: pneumonia, pneumothorax, atelectasia If Clavien,report grade: NA	NA	NR	92	3(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Need for subsequent intervention Define: stent If Clavien,report grade: NA	NA	NR	92	0(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	92	3(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	92	7(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 2(LPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: III	NA	NR	92	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	75	3(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade: NA	NA	NR	75	1(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Respiratory Define: pneumonia, pneumothorax, atelectasia If Clavien,report grade: NA	NA	NR	75	0(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Need for subsequent intervention Define: stent If Clavien,report grade: NA	NA	NR	75	1(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	75	2(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	75	3(NR)	NR	NR
Haramis, 2012 ¹¹⁵	Arm 1(LCA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If	NA	NR	75	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: III						
Indudhara,1997 ⁴⁷	Arm 2(radical nephrectomy)	Harm Name: urine leak Define: NR If Clavien,report grade: NR	NA	1year	71	0(0)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara,1997 ⁴⁷	Arm 2(radical nephrectomy)	Harm Name: wound infection Define: NR If Clavien,report grade: NR	NA	1year	71	0(0)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara,1997 ⁴⁷	Arm 1(nephron sparing surgery)	Harm Name: urine leak Define: NR If Clavien,report grade: NR	NA	1year	35	2(0.0571428571428571)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Indudhara,1997 ⁴⁷	Arm 1(nephron sparing surgery)	Harm Name: wound infection Define: NR If Clavien,report grade: NR	NA	1year	35	1(0.0285714285714286)	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA	Comp. Arm: NA RR: NA HR: NA OR: NA RD: NA 95%CI: NA SE: NA SD: NA P: NA
Janetschek, 2000 ¹⁰⁰	Arm 2(Laparoscopic)	Harm Name: Minor vs. major Define: Minor	NA	NR	73		NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
	radical nephrectomy)	complications If Clavien,report grade:						
Janetschek, 2000 ¹⁰⁰	Arm 2(Laparoscopic radical nephrectomy)	Harm Name: Minor vs. major Define: Major complications If Clavien,report grade:	NA	NR	73		NR	NR
Janetschek, 2000 ¹⁰⁰	Arm 1(Wedge-resection)	Harm Name: Minor vs. major Define: Minor complications If Clavien,report grade:	NA	NR	25		NR	NR
Janetschek, 2000 ¹⁰⁰	Arm 1(Wedge-resection)	Harm Name: Minor vs. major Define: Major complications If Clavien,report grade:	NA	NR	25		NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	30 days	535	56(10.5)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	31 - 365 days	535	51(9.5)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	30 days	535	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	30 days	535	108(20.3)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	30 days	535	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 4(MIRN)	Harm Name: Need for subsequent intervention Define: Stent Placement If	NA	30 days	535	NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	30 days	160	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	31 - 365 days	160	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	30 days	160	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	30 days	160	30(18.3)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	30 days	160	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 2(MIPN)	Harm Name: Need for subsequent intervention Define: Stent Placement If Clavien,report grade: NA	NA	30 days	160	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	30 days	404	52(12.8)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	31 - 365 days	404	37(9)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Cardiovascular Define: NA If	NA	30 days	404	12(3)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	30 days	404	102(25.1)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	30 days	404	14(3.4)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 5(ORN)	Harm Name: Need for subsequent intervention Define: Stent Placement If Clavien,report grade: NA	NA	30 days	404	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	30 days	330	23(7)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	31 - 365 days	330	27(8.5)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	30 days	330	NR	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	30 days	330	92(28.8)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	30 days	330	12(3.7)	NR	NR
Kaowalczyk, 2013 ¹⁴⁴	Arm 3(OPN)	Harm Name: Need for subsequent	NA	30 days	330	12(3.8)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		intervention Define: Stent Placement If Clavien,report grade: NA						
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	30 days	211	NR	NR	Comp. Arm: Arms 2 - 5 P: <0.001
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	31 - 365 days	211	12(5.8)	NR	Comp. Arm: Arms 2 - 5 P: <0.001
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	30 days	211	NR	NR	Comp. Arm: Arms 2 - 5 P: 0.121
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	30 days	211	27(12.8)	NR	Comp. Arm: Arms 2 - 5 P: <0.001
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Wound complications (hernia, dehiscence) Define: NA If Clavien,report grade: NA	NA	30 days	211	NR	NR	Comp. Arm: Arms 2 - 5 P: 0.077
Kaowalczyk, 2013 ¹⁴⁴	Arm 1(Ablation)	Harm Name: Need for subsequent intervention Define: Stent Placement If Clavien,report grade: NA	NA	30 days	211	NR	NR	Comp. Arm: Arms 2 - 5 P: <0.001
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	35	1	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Acute kidney injury Define: Acute renal failure If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Respiratory Define: Atelectasis If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	35	2	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: Serosal tear If Clavien,report grade:	NA	NR	35	2	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Other-define Define: Foley catheter clot If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Hemorrhage Define: bleeding requiring transfusion If Clavien,report grade:	NA	NR	35	2	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Hematologic (thromboembolic) Define: lumbar vein tear If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: splenic capsule tear If Clavien,report grade:	NA	NR	35	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal	NA	NR	35	1	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: liver injury If Clavien,report grade:						
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Gastrointestinal Define: mesenteric injury If Clavien,report grade:	NA	NR	35	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 2(Radical nephrectomy)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	35	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: If Clavien,report grade:	NA	NR	79	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Infectious disease Define: Wound infection If Clavien,report grade:	NA	NR	79	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	79	2	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Acute kidney injury Define: Acute renal failure If Clavien,report grade:	NA	NR	79	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Respiratory Define: Atelectasis If Clavien,report grade:	NA	NR	79	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	79	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: Serosal tear If Clavien,report grade:	NA	NR	79	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Other-define Define: Foley	NA	NR	79	1	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		catheter clot If Clavien,report grade:						
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Hemorrhage Define: bleeding requiring transfusion If Clavien,report grade:	NA	NR	79	4	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Hematologic (thromboembolic) Define: lumbar vein tear If Clavien,report grade:	NA	NR	79	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: splenic capsule tear If Clavien,report grade:	NA	NR	79	1	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: liver injury If Clavien,report grade:	NA	NR	79	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Gastrointestinal Define: mesenteric injury If Clavien,report grade:	NA	NR	79	0	NR	NR
Kim, 2003 ¹⁰¹	Arm 1(Partial nephrectomy)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	79	0	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	51	6(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Urinary tract infection Define: NA If Clavien,report grade: NA	NA	NR	51	0(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Hematologic	NA	NR	51	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		(thromboembolic) Define: DVT If Clavien,report grade: NA						
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Wound complications (hernia, dehiscence) Define: Incisional hernia If Clavien,report grade: NA	NA	NR	51	0(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	51	1(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 1(LPN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	51	5(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	51	5(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Urinary tract infection Define: NA If Clavien,report grade: NA	NA	NR	51	1(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Hematologic (thromboembolic) Define: DVT If Clavien,report grade: NA	NA	NR	51	0(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Wound complications (hernia, dehiscence) Define:	NA	NR	51	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Incisional hernia If Clavien,report grade: NA						
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	51	3(NR)	NR	NR
Kiriluk, 2011 ¹¹⁶	Arm 2(LAT)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	51	9(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	41	1(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Acute kidney injury Define: ARF If Clavien,report grade: NA	NA	NR	41	1(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	41	1(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	41	0(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Respiratory pneumonia, pneumothorax If Clavien,report grade: NA	NA	NR	41	0(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Need for subsequent	NA	NR	41	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		intervention Define: Stent If Clavien,report grade:						
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	41	3(7)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	41	3(7)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: III	NA	NR	41	0(0)	NR	NR
Klatte, 2011 ¹²⁸	Arm 1(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IV	NA	NR	41	2(5)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	82	3(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Acute kidney injury Define: ARF If Clavien,report grade: NA	NA	NR	82	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	82	0(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	82	2(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Respiratory Define: pneumonia, pneumothorax If Clavien,report grade: NA	NA	NR	82	2(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Need for subsequent intervention Define: stent If Clavien,report grade:	NA	NR	82	0(NR)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	82	5(6)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	82	4(5)	NR	NR
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: III	NA	NR	82	4(5)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Klatte, 2011 ¹²⁸	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IV	NA	NR	82	1(1)	NR	NR
Kopp, 2014 ⁶⁶	Arm 1(RN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR0	122	0(NR)	NR	SD: <0.001 P:
Kopp, 2014 ⁶⁶	Arm 1(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: NA	NA	NR3	122	NR	NR	NR
Kopp, 2014 ⁶⁶	Arm 2(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR8	80	10(NR)	NR	NR
Kopp, 2014 ⁶⁶	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: NA	NA	NR14	80	NR	NR	SD: <0.001 P:
Kyung, 2014 ⁶⁷	NA(Radical Nephrectomy)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	82	24(29.3)	NR	Comp. Arm: Arm 2 HR: 1.137 P: 0.718
Kyung, 2014 ⁶⁷	NA(Partial Nephrectomy)	Harm Name: Cardiovascular Define: NA If	NA	NR	53	12(22.6)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Lane, 2010 ⁶⁸	Arm 4(RN)	Harm Name: Acute kidney injury Define: If Clavien,report grade:	NA		569	8(1.4)	NR	NR
Lane, 2010 ⁶⁸	Arm 1(PN, ALL)	Harm Name: Acute kidney injury Define: If Clavien,report grade:	NA		1833	14(0.8)	NR	NR
Lowrance, 2010 ⁷¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: low grade 1-2 If Clavien,report grade: NA	NA	NR	651	73(11)	NR	NR
Lowrance, 2010 ⁷¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: high grade 3-4 If Clavien,report grade: NA	NA	NR	651	17(3)	NR	NR
Lowrance, 2010 ⁷¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: death 5 If Clavien,report grade: NA	NA	NR	651	3(0.5)	NR	NR
Lowrance, 2010 ⁷¹	Arm 1(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: low grade 1-2 If Clavien,report grade: NA	NA	NR	1061	151(14)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Lowrance, 2010 ⁷¹	Arm 1(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: high grade 3-4 If Clavien,report grade: NA	NA	NR	1061	61(6)	NR	NR
Lowrance, 2010 ⁷¹	Arm 1(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: death 5 If Clavien,report grade: NA	NA	NR	1061	0(0)	NR	NR
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	35	0	NR	NR
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	35	0	NR	NR
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Harm Name: Cardiovascular Define: Arrythmia If Clavien,report grade:	NA	NR	35	1	NR	NR
Matin, 2002 ¹⁰⁵	Arm 2(Laparoscopic radical nephrectomy)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	35	3	NR	NR
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	82	1	NR	NR
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	82	2	NR	NR
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Harm Name: Cardiovascular	NA	NR	82	3	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: Arrythmia If Clavien,report grade:						
Matin, 2002 ¹⁰⁵	Arm 1(Nephron sparing surgery)	Harm Name: Gastrointestinal Define: Ileus If Clavien,report grade:	NA	NR	82	7	NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Positive Surgical Margin Define: If Clavien,report grade:	NA	NR	66	5(7.6)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Hematologic (thromboembolic) Define: deep venous thrombosis If Clavien,report grade:	NA	NR	66	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	NR	66	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Other-define Define: prolonged intubation If Clavien,report grade:	NA	NR	66	3(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Other-define Define: symptomatic pneumothorax If Clavien,report grade:	NA	NR	66	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Wound complications (hernia, dehiscence) Define: seroma If Clavien,report grade:	NA	NR	66	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 2(RN)	Harm Name: Other-define Define: prolonged ilius If Clavien,report grade:	NA	NR	66	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 1(PN)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	periopNR	33	2(NR)	Comp. Arm: P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Mitchell, 2006 ⁷⁵	Arm 1(PN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	periopN R	33	1(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 1(PN)	Harm Name: Hemorrhage Define: bleeding If Clavien,report grade:	NA	periopN R	33	2(NR)	Comp. Arm: P: NR	NR
Mitchell, 2006 ⁷⁵	Arm 1(PN)	Harm Name: Positive Surgical Margin Define: If Clavien,report grade:	NA	NR	33	2(6.1)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Other- define Define: Intraoperative complications If Clavien,report grade:	NA	NR	100	6(6)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Other- define Define: Postoperative complications If Clavien,report grade:	NA	NR	100	18(18)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Other- define Define: Renal artery Injury If Clavien,report grade:	NA	NR	100	1(1)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Respiratory Define: Pleural injury If Clavien,report grade:	NA	NR	100	1(1)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: I	NA	NR	100	10(10)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading	NA	NR	100	2(2)	Comp. Arm: P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		System if available) Define: If Clavien,report grade: II						
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: IIIa	NA	NR	100	0(0)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: IIIb	NA	NR	100	6(6)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Other-define Define: Intraoperative complications If Clavien,report grade:	NA	NR	98	1(1)	Comp. Arm: P: NR	Comp. Arm: Arm 2 P: 0.16
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Other-define Define: Postoperative complications If Clavien,report grade:	NA	NR	98	9(9.2)	Comp. Arm: P: NR	Comp. Arm: Arm 2 P: 0.05
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Other-define Define: Renal artery Injury If Clavien,report grade:	NA	NR	98	0(0)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Respiratory Define: Pleural injury If Clavien,report grade:	NA	NR	98	0(0)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Listed by severity of complications (using the Clavien Grading	NA	NR	98	5(5.1)	Comp. Arm: P: NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		System if available) Define: If Clavien,report grade: I						
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: II	NA	NR	98	1(1)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: IIIa	NA	NR	98	1(1)	Comp. Arm: P: NR	NR
Mues, 2012 ¹²⁰	Arm 1(Ablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: If Clavien,report grade: IIIb	NA	NR	98	2(2)	Comp. Arm: P: NR	NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	3months	48	2(4.2)	NR	Comp. Arm: Arm 2 P: 0.5
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	3months	48	7(14.5)	NR	Comp. Arm: Arm 2 P: NR
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	3months	48	1(2.1)	NR	Comp. Arm: Arm 2 P: 0.43

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	1month	48	3(6.3)	NR	Comp. Arm: Arm 2 P: 0.28
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	1month	48	1(2.1)	NR	Comp. Arm: Arm 2 P: 1
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Cardiovascular Define: MI If Clavien,report grade: NA	NA	1month	48	1(2.1)	NR	Comp. Arm: Arm 2 P: 1
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	1month	48	0(0)	NR	Comp. Arm: Arm 2 P: 0.4
Pascal, 2011 ¹¹⁷	Arm 1(LPN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	1month	48	1(2.1)	Comp. Arm: P: NR	Comp. Arm: Arm 2 P: 0.432
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	3months	30	0(0)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	3months	30	1(3.3)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	3months	30	0(0)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Hematologic (thromboembolic) Define: NA If	NA	1month	30	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	1month	30	1(3.3)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Cardiovascular Define: MI If Clavien,report grade: NA	NA	1month	30	0(0)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	1month	30	1(3.3)	NR	NR
Pascal, 2011 ¹¹⁷	Arm 2(Laparoscopic Renal cryoablation)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	1month	30	0(0)	Comp. Arm: P: NR	NR
Permpongkosol, 2007 ¹³⁹	Arm 1(LRN)	Harm Name: Minor vs. major Define: NA If Clavien,report grade: NA	NA	intraop and postopNR	549	110(20)	Comp. Arm: RR: 0.9 95%CI: 0.7-1.1 P: NR	NR
Permpongkosol, 2007 ¹³⁹	Arm 2(LPN)	Harm Name: Minor vs. major Define: NA If Clavien,report grade: NA	NA	intraop and postopNR	345	97(28)	Comp. Arm: RR: 1.3 95%CI: 1.1-1.6 P: NR	NR
Permpongkosol, 2007 ¹³⁹	Arm 3(LRA)	Harm Name: Minor vs. major Define: NA If Clavien,report grade: NA	NA	intraop and postopNR	81	23(18.6)	Comp. Arm: RR: 1.3 95%CI: 0.9-1.8 P: NR	NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Harm Name: Cardiovascular Define: Pulmonary If Clavien,report grade:	NA	NR	45	3(6.6)	NR	NRBetween arm1 and arm2, p=0.479, between young and old, p=0.541
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Harm Name: Cardiovascular Define: Cardiovascular If Clavien,report grade:	NA	NR	45	19(NR)	NR	NRBetween arm1 and arm2, p=0.021,

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
								between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 2(Radical nephrectomy (NSS), for young (<55 years old))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Urinary fistula If Clavien,report grade:	NA	NR	45	0(0)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Harm Name: Cardiovascular Define: Pulmonary If Clavien,report grade:	NA	NR	55	6(11.5)	NR	NRBetween arm3 and arm4, p=0.399, between young and old, p=0.541
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Harm Name: Cardiovascular Define: Cardiovascular If Clavien,report grade:	NA	NR	55	0(0)	NR	NRBetween arm3 and arm4, p=0.314, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 4(Radical nephrectomy, for old (>65 years old))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Urinary fistula If Clavien,report grade:	NA	NR	55	0(0)	NR	NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Harm Name: Cardiovascular Define: Pulmonary If Clavien,report grade:	NA	NR	36	4(11.1)	NR	NRBetween arm1 and arm2, p=0.479, between young and old, p=0.541
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Harm Name: Cardiovascular Define: Cardiovascular If Clavien,report grade:	NA	NR	36	1(3.3)	NR	NRBetween arm1 and arm2, p=0.021, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 1(Partial nephrectomy (NSS), for young (<55 years old))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define:	NA	NR	36	4(11.1)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Urinary fistula If Clavien,report grade:						
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Harm Name: Cardiovascular Define: Pulmonary If Clavien,report grade:	NA	NR	33	2(6.1)	NR	NRBetween arm3 and arm4, p=0.399, between young and old, p=0.541
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Harm Name: Cardiovascular Define: Cardiovascular If Clavien,report grade:	NA	NR	33	0(0)	NR	NRBetween arm3 and arm4, p=0.314, between young and old, p=NR
Roos, 2010 ¹⁰⁶	Arm 3(Partial nephrectomy, for old (>65 years old))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Urinary fistula If Clavien,report grade:	NA	NR	33	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Respiratory insufficiency,analgesics, diuretics If Clavien,report grade: I	NA	NR	146	38(26)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Perioperative blood transfusions If Clavien,report grade: II	NA	NR	146	18(12.3)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading	NA	NR	146	5(3.4)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		System if available) Define: Transurethral or suprapubic catheter or DJ-insertion, thoracal drain If Clavien,report grade: IIIa						
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Open revision or intraoperative complications If Clavien,report grade: IIIb	NA	NR	146	3(2.1)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Acute renal failure If Clavien,report grade: IV	NA	NR	146	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Death If Clavien,report grade: V	NA	NR	146	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor >7cm))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Fistula If Clavien,report grade: NA	NA	NR	28	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2012 ⁵¹	Arm 2(RN(tumor >7cm))	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	28	5(45.5)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor >7cm))	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	28	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor >7cm))	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	28	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor 4.1 - 7cm))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Fistula If Clavien,report grade: NA	NA	NR	118	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor 4.1 - 7cm))	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	118	12(34.3)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor 4.1 - 7cm))	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	118	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 2(RN(tumor 4.1 - 7cm))	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	118	2(5.7)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Respiratory insufficiency,analgesis, diuretics If Clavien,report grade: I	NA	NR	101	17(16.8)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Perioperative blood transfusions If Clavien,report grade: II	NA	NR	101	27(26.7)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Transurethral or suprapubic catheter or DJ-insertion, thoracal drain If Clavien,report grade: IIIa	NA	NR	101	5(5)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Open revision or intraoperative complications If Clavien,report grade: IIIb	NA	NR	101	1(1)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Acute renal failure If Clavien,report grade: IV	NA	NR	101	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2012 ⁵¹	Arm 1(NSS)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: Death If Clavien,report grade: V	NA	NR	101	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Fistula If Clavien,report grade: NA	NA	NR	16	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	16	1(NR)	NR	Comp. Arm: Arm 2 P: 0.28
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	16	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor >7cm))	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	16	0(0)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor 4.1 - 7cm))	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: Fistula If Clavien,report grade: NA	NA	NR	85	5(16.1)	NR	NR
Roos, 2012 ⁵¹	Arm 1(NSS(tumor 4.1 - 7cm))	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	85	7(22.5)	NR	Comp. Arm: Arm 2 P: 0.641
Roos, 2012 ⁵¹	Arm 1(NSS(tumor 4.1 - 7cm))	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	85	2(6.5)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Roos, 2012 ⁵¹	Arm 1(NSS(tumor 4.1 - 7cm))	Harm Name: Neurologic Define: NA If Clavien,report grade: NA	NA	NR	85	3(9.7)	NR	Comp. Arm: Arm 2 P: 0.349
Shinohara, 2001 ⁵²	Arm 2(RN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	51	4(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Harm Name: Hemorrhage Define: retroperitoneal hemorrhage If Clavien,report grade: NA	NA	NR	51	0(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Harm Name: Gastrointestinal Define: including subileus or ileus If Clavien,report grade: NA	NA	NR	51	9(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Harm Name: Neurologic Define: Anorexia If Clavien,report grade: NA	NA	NR	51	1(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 2(RN)	Harm Name: Respiratory Define: Atelectasis If Clavien,report grade: NA	NA	NR	51	1(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	15	0(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Harm Name: Hemorrhage Define: retroperitoneal hemorrhage If Clavien,report grade: NA	NA	NR	15	1(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Shinohara, 2001 ⁵²	Arm 1(NSS)	Harm Name: Gastrointestinal Define: including subileus or ileus If Clavien,report grade: NA	NA	NR	15	0(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Harm Name: Neurologic Define: Cerebral bleeding If Clavien,report grade: NA	NA	NR	15	1(NR)	NR	NR
Shinohara, 2001 ⁵²	Arm 1(NSS)	Harm Name: Respiratory Define: Atelectasis If Clavien,report grade: NA	NA	NR	15	0(NR)	NR	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade: NA	NA	NR	40	2(NR)	NR	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Harm Name: Wound complications (hernia, dehiscence) Define: hernia If Clavien,report grade: NA	NA	NR	40	1(NR)	NR	NR
Stern, 2007 ¹²¹	Arm 1(RFA)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade: NA	NA	NR	40	0(NR)	NR	NR
Stern, 2007 ¹²¹	Arm 2(PN)	Harm Name: Gastrointestinal Define: ileus If Clavien,report grade: NA	NA	NR	37	0(NR)	NR	NR
Stern, 2007 ¹²¹	Arm 2(PN)	Harm Name: Wound complications (hernia, dehiscence) Define: hernia If	NA	NR	37	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Stern, 2007 ¹²¹	Arm 2(PN)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade: NA	NA	NR	37	1(NR)	NR	NR
Sun, 2012 ⁸⁰	Arm 2(RN)	Harm Name: Acute kidney injury Define: ARF If Clavien,report grade: NA	NA	NR	840	169(20.1)	NR	NR
Sun, 2012 ⁸⁰	Arm 1(PN)	Harm Name: Acute kidney injury Define: ARF If Clavien,report grade: NA	NA	NR	840	123(14.6)	NR	Comp. Arm: Arm 2 HR: 1.83 95%CI: 1.16-1.86 P: 0.001
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: 0.12
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Acute kidney injury Define: Dialysis If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: >.99
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Gastrointestinal Define: Bowel Ischemia If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: >.99
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Respiratory Define: Pneumothorax If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: 0.35
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Hemorrhage Define: hematoma or bleeding	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: 0.12

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		If Clavien,report grade: NA						
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Infectious disease Define: infection or abscess If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: >.99
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: 0.61
Takaki, 2014 ¹³⁵	Arm 1(RFA)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	21	NR	NR	Comp. Arm: Arm 2 P: 0.12
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Acute kidney injury Define: Dialysis If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Gastrointestinal Define: Bowel Ischemia If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Respiratory Define: Pneumothorax If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Hemorrhage Define: hematoma or bleeding If Clavien,report grade: NA	NA	NR	39	NR	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Infectious disease Define: infection or abscess If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Takaki, 2014 ¹³⁵	Arm 2(RN)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	39	NR	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	233	1(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	233	1(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	233	1(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	233	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	233	0(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	233	2(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	233	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	233	4(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	233	5(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIA	NA	NR	233	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Robot assisted partial nephrectomy)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IVA	NA	NR	233	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	267	0(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Hemorrhage Define:	NA	NR	267	3(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		NA If Clavien,report grade: NA						
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	267	0(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	267	3(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	267	1(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	267	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	267	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	267	1(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	267	2(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIA	NA	NR	267	2(NR)	NR	NR
Tanagho, 2013 ¹²⁶	NA(Cryoablation)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IVA	NA	NR	267	2(NR)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	307	0(0)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	307	6(7.7)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	307	14(18)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	307	18(23.1)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	307	6(7.7)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Cardiovascular Define: NA If	NA	NR	307	7(9)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Clavien,report grade: NA						
Tomaszewski, 2014 ⁸⁴	Arm 2(RN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	307	4(5.1)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN-cT1b-T2)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	187	17(9.1)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN-cT1b-T2)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	187	3(1.6)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN-cT1b-T2)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	187	36(19.3)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 2(RN-cT1b-T2)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	187	16(8.6)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	785	43(20.5)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	785	4(1.9)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	785	30(14.3)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Gastrointestinal Define: NA If Clavien,report grade: NA	NA	NR	785	30(14.3)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Respiratory Define: NA If Clavien,report grade: NA	NA	NR	785	20(9.5)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Cardiovascular Define: NA If Clavien,report grade: NA	NA	NR	785	16(7.6)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	785	8(3.8)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN-cT1b-T2)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	154	0(0)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN-cT1b-T2)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	NR	154	5(3.2)	NR	NR
Tomaszewski, 2014 ⁸⁴	Arm 1(PN-cT1b-T2)	Harm Name: Minor vs. major Define: Minor If Clavien,report grade: NA	NA	NR	154	24(15.6)	NR	Comp. Arm: Arm 2 P: 0.059
Tomaszewski, 2014 ⁸⁴	Arm 1(PN-cT1b-T2)	Harm Name: Minor vs. major Define: Major If Clavien,report grade: NA	NA	NR	154	9(5.8)	NR	Comp. Arm: Arm 2 P: 0.618
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Harm Name: Other-define Define: All urological complications If Clavien,report grade:	NA	NR	36	9	NR	NR
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Harm Name: Other-define Define: All non-urological complications If Clavien,report grade:	NA	NR	36	12	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Turna, 2009 ¹²³	Arm 1(Laparoscopic partial nephrectomy)	Harm Name: Acute kidney injury Define: Requiring hemodialysis (temporary and permanent) If Clavien,report grade:	NA	NR	36	5	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Harm Name: Other-define Define: All urological complications If Clavien,report grade:	NA	NR	29	1	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Harm Name: Other-define Define: All non-urological complications If Clavien,report grade:	NA	NR	29	1	NR	NR
Turna, 2009 ¹²³	Arm 3(Radiofrequency ablation)	Harm Name: Acute kidney injury Define: Requiring hemodialysis (temporary and permanent) If Clavien,report grade:	NA	NR	29	0	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Harm Name: Other-define Define: All urological complications If Clavien,report grade:	NA	NR	36	3	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Harm Name: Other-define Define: All non-urological complications If Clavien,report grade:	NA	NR	36	2	NR	NR
Turna, 2009 ¹²³	Arm 2(Cryoablation)	Harm Name: Acute kidney injury Define: Requiring hemodialysis (temporary and permanent) If Clavien,report grade:	NA	NR	36	0	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Uchida, 2004 ⁸⁵	Arm 2(RN)	Harm Name: Gastrointestinal Define: If Clavien,report grade:	NA	NR	54	2(NR)	NR	NR
Uchida, 2004 ⁸⁵	Arm 2(RN)	Harm Name: Infectious disease Define: If Clavien,report grade:	NA	NR	51	1(NR)	NR	NR
Uchida, 2004 ⁸⁵	Arm 2(RN)	Harm Name: Hemorrhage Define: If Clavien,report grade:	NA	NR	51	1(NR)	NR	NR
Uchida, 2004 ⁸⁵	Arm 1(PN)	Harm Name: Urine leak Define: If Clavien,report grade:	NA	NR	54	2(NR)	NR	NR
Uchida, 2004 ⁸⁵	Arm 1(PN)	Harm Name: Other-define Define: renal hypertension If Clavien,report grade:	NA	NR	54	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Harm Name: Hematologic (thromboembolic) Define: Pulmonary embolism If Clavien,report grade: NA	NA	NR	28	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Harm Name: Gastrointestinal Define: Post operative ileus If Clavien,report grade: NA	NA	NR	28	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Harm Name: Respiratory Define: Pneumonia If Clavien,report grade: NA	NA	NR	28	0(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Harm Name: Hemorrhage Define: Perinephric hematoma If Clavien,report grade: NA	NA	NR	28	0(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 1(RN)	Harm Name: abscess Define: Perinephric	NA	NR	28	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		abscess If Clavien,report grade: NA						
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Harm Name: Hematologic (thromboembolic) Define: Pulmonary embolism If Clavien,report grade: NA	NA	NR	52	0(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Harm Name: Gastrointestinal Define: Post operative ileus If Clavien,report grade: NA	NA	NR	52	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Harm Name: Respiratory Define: Pneumonia If Clavien,report grade: NA	NA	NR	52	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Harm Name: Hemorrhage Define: Perinephric hematoma If Clavien,report grade: NA	NA	NR	52	1(NR)	NR	NR
Uzzo, 1999 ⁸⁶	Arm 2(NSS)	Harm Name: abscess Define: Perinephric abscess If Clavien,report grade: NA	NA	NR	52	1(NR)	NR	NR
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Harm Name: Urine leak Define: Urinary fistula If Clavien,report grade:	NA	NR	290	0(0)	NR	NR
Van Poppel, 2011 ⁸⁷	Arm 2(Radical nephrectomy)	Harm Name: Respiratory Define: If Clavien,report grade:	NA	NR	290	25(8.6)	NR	NR
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Harm Name: Urine leak Define: Urinary fistula If Clavien,report grade:	NA	NR	242	9(4)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Van Poppel, 2011 ⁸⁷	Arm 1(NSS)	Harm Name: Respiratory Define: If Clavien,report grade:	NA	NR	242	27(11.2)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: non-complication If Clavien,report grade:	NA	NR	88	71(80.68)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: total genitourinary If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Acute kidney injury Define: acute renal failure If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Wound complications (hernia, dehiscence) Define: total wound If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Wound complications (hernia, dehiscence) Define: infection If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Wound complications (hernia, dehiscence) Define: subcutaneous hydrops If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Infectious disease Define: total infectious If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Infectious disease Define: urinary tract infection If Clavien,report grade:	NA	NR	88	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Infectious disease Define: fever of unknow origin If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: total gastrointestinal If Clavien,report grade:	NA	NR	88	6(6.82)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: hiccup If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: stress ulcer If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: small bowel obstruction If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: constipation If Clavien,report grade:	NA	NR	88	3(3.41)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: gastrointestinal bleeding If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: emesis If Clavien,report grade:	NA	NR	88	3(3.41)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal	NA	NR	88	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: biliary colic If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: pancreatitis If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Gastrointestinal Define: pancreatic fistula If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Cardiovascular Define: total cardiac If Clavien,report grade:	NA	NR	88	4(4.55)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Cardiovascular Define: myocardial infarction If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Cardiovascular Define: congestive heart failure If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Cardiovascular Define: hypertension If Clavien,report grade:	NA	NR	88	3(3.41)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: total pulmonary If Clavien,report grade:	NA	NR	88	2(2.27)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade:	NA	NR	88	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: pneumothorax If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: respiratory distress If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Respiratory Define: atelectasis If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hematologic (thromboembolic) Define: total thromboembolic If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hematologic (thromboembolic) Define: deep vein thrombosis If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hemorrhage Define: total bleeding If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hemorrhage Define: perinephric hematoma If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hemorrhage Define: other postoperative hemorrhage If Clavien,report grade:	NA	NR	88	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Hematologic (thromboembolic) Define: anemia If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Neurologic Define: total neurologic If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Neurologic Define: cerebrovascular event If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Neurologic Define: neuropathy If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Neurologic Define: syncope If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: total miscellaneous If Clavien,report grade:	NA	NR	88	2(2.27)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: anaphylaxis If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: Chylous leak If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: gout If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: hyponatremia If Clavien,report grade:	NA	NR	88	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: shock If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: hypoalbuminemia If Clavien,report grade:	NA	NR	88	1(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Other-define Define: death If Clavien,report grade:	NA	NR	88	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: I	NA	NR	88	10	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: II	NA	NR	88	6	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: IIIa	NA	NR	88	0	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: IIIb	NA	NR	88	0	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: IV a	NA	NR	88	1	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: IV b	NA	NR	88	0	NR	NR
Xu, 2014 ⁵³	Arm 1(LRN)	Harm Name: Define: If Clavien,report grade: V	NA	NR	88	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: non-complication If Clavien,report grade:	NA	NR	42	27(64.29)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: total genitourinary If Clavien,report grade:	NA	NR	42	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Acute kidney injury Define: acute renal failure If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Wound complications (hernia, dehiscence) Define: total wound If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Wound complications (hernia, dehiscence) Define: infection If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Wound complications (hernia, dehiscence) Define: subcutaneous hydrops If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Infectious disease Define: total infectious If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Infectious disease Define: urinary tract infection If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Infectious disease Define: fever of unknow origin If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: total gastrointestinal If Clavien,report grade:	NA	NR	42	5(11.9)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: hiccup If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: stress ulcer If Clavien,report grade:	NA	NR	42	2(4.76)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: small bowel obstruction If Clavien,report grade:	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: constipation If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: gastrointestinal bleeding If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: emesis If Clavien,report grade:	NA	NR	42	2(4.76)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: biliary colic If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: pancreatitis If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Gastrointestinal Define: pancreatic fistula If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Cardiovascular	NA	NR	42	1(2.38)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: total cardiac If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Cardiovascular Define: myocardial infarction If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Cardiovascular Define: congestive heart failure If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Cardiovascular Define: hypertension If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: total pulmonary If Clavien,report grade:	NA	NR	42	4(9.52)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade:	NA	NR	42	2(4.76)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: pneumothorax If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: respiratory distress If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Respiratory Define: atelectasis If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hematologic (thromboembolic) Define: total thromboembolic If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hematologic (thromboembolic) Define: deep vein thrombosis If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hemorrhage Define: total bleeding If Clavien,report grade:	NA	NR	42	3(7.14)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hemorrhage Define: perinephric hematoma If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hemorrhage Define: other postoperative hemorrhage If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Hematologic (thromboembolic) Define: anemia If Clavien,report grade:	NA	NR	42	2(4.76)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Neurologic Define: total neurologic If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Neurologic Define:	NA	NR	42	1(2.38)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		cerebrovascular event If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Neurologic Define: neuropathy If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Neurologic Define: syncope If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: total miscellaneous If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: anaphylaxis If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: Chylous leak If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: gout If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: hyponatremia If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: shock If Clavien,report grade:	NA	NR	42	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: hypoalbuminemia If Clavien,report grade:	NA	NR	42	1(2.38)	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Other-define Define: death If Clavien,report grade:	NA	NR	42	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: I	NA	NR	42	4	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: II	NA	NR	42	11	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: IIIa	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: IIIb	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: IV a	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: IV b	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 3(LPN)	Harm Name: Define: If Clavien,report grade: V	NA	NR	42	0	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: non-complication If Clavien,report grade:	NA	NR	526	368(69.96)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: total genitourinary If Clavien,report grade:	NA	NR	526	7(1.33)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Acute kidney injury Define: acute renal failure If Clavien,report grade:	NA	NR	526	7(1.33)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Wound complications (hernia, dehiscence) Define: total wound If Clavien,report grade:	NA	NR	526	7(1.33)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Wound complications (hernia, dehiscence) Define: infection If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Wound complications (hernia, dehiscence) Define: subcutaneous hydrops If Clavien,report grade:	NA	NR	526	6(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Infectious disease Define: total infectious If Clavien,report grade:	NA	NR	526	13(2.47)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Infectious disease Define: urinary tract infection If Clavien,report grade:	NA	NR	526	3(0.57)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Infectious disease Define: fever of unknow origin If Clavien,report grade:	NA	NR	526	8(1.52)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade:	NA	NR	526	2(0.38)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: total gastrointestinal If Clavien,report grade:	NA	NR	526	53(10.8)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: hiccup If Clavien,report grade:	NA	NR	526	2(0.38)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: stress ulcer If Clavien,report grade:	NA	NR	526	14(2.66)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal	NA	NR	526	3(0.57)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: small bowel obstruction If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: constipation If Clavien,report grade:	NA	NR	526	15(2.85)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: gastrointestinal bleeding If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: emesis If Clavien,report grade:	NA	NR	526	13(2.47)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: biliary colic If Clavien,report grade:	NA	NR	526	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: pancreatitis If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Gastrointestinal Define: pancreatic fistula If Clavien,report grade:	NA	NR	526	4(0.76)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Cardiovascular Define: total cardiac If Clavien,report grade:	NA	NR	526	20(3.8)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	NR	526	6(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Cardiovascular Define: myocardial	NA	NR	526	2(0.38)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		infarction If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Cardiovascular Define: congestive heart failure If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Cardiovascular Define: hypertension If Clavien,report grade:	NA	NR	526	11(2.09)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: total pulmonary If Clavien,report grade:	NA	NR	526	10(1.9)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade:	NA	NR	526	4(0.76)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: pneumothorax If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: respiratory distress If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	526	1(0.38)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Respiratory Define: atelectasis If Clavien,report grade:	NA	NR	526	2(0.38)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Hematologic (thromboembolic) Define: total thromboembolic If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Hematologic (thromboembolic) Define: deep vein thrombosis If Clavien,report grade:	NA	NR	526	0(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Hemorrhage Define: total bleeding If Clavien,report grade:	NA	NR	526	11(2.09)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Hemorrhage Define: perinephric hematoma If Clavien,report grade:	NA	NR	526	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Hemorrhage Define: other postoperative hemorrhage If Clavien,report grade:	NA	NR	526	7(1.33)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: anemia If Clavien,report grade:	NA	NR	526	4(0.76)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Neurologic Define: total neurologic If Clavien,report grade:	NA	NR	526	3(0.57)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Neurologic Define: cerebrovascular event If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Neurologic Define: neuropathy If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Neurologic Define: syncope If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: total	NA	NR	526	33(6.27)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		miscellaneous If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: anaphylaxis If Clavien,report grade:	NA	NR	526	9(1.71)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: Chylous leak If Clavien,report grade:	NA	NR	526	6(1.14)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: gout If Clavien,report grade:	NA	NR	526	1(0.19)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: hyponatremia If Clavien,report grade:	NA	NR	526	2(0.34)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: shock If Clavien,report grade:	NA	NR	526	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: hypoalbuminemia If Clavien,report grade:	NA	NR	526	15(2.85)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Other-define Define: death If Clavien,report grade:	NA	NR	526	2(0.38)	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: I If Clavien,report grade:	NA	NR	526	50	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: II If Clavien,report grade:	NA	NR	526	93	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: IIIa If Clavien,report grade:	NA	NR	526	6	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: IIIb If Clavien,report grade:	NA	NR	526	0	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: If Clavien,report grade: IV a	NA	NR	536	7	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: If Clavien,report grade: IV b	NA	NR	526	0	NR	NR
Xu, 2014 ⁵³	Arm 2(ORN)	Harm Name: Define: If Clavien,report grade: V	NA	NR	526	2	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: non-complication If Clavien,report grade:	NA	NR	187	119(63.64)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Acute kidney injury Define: total genitourinary If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Acute kidney injury Define: acute renal failure If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Wound complications (hernia, dehiscence) Define: total wound If Clavien,report grade:	NA	NR	187	6(3.21)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Wound complications (hernia, dehiscence) Define: infection If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Wound complications (hernia, dehiscence) Define: subcutaneous hydrops If Clavien,report grade:	NA	NR	187	5(2.67)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Infectious disease Define: total infectious If Clavien,report grade:	NA	NR	187	3(3)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Infectious disease Define: urinary tract infection If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Infectious disease Define: fever of unknow origin If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Infectious disease Define: sepsis If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: total gastrointestinal If Clavien,report grade:	NA	NR	187	26(13.9)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: hiccup If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: stress ulcer If Clavien,report grade:	NA	NR	187	7(3.74)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: small bowel obstruction If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: constipation If Clavien,report grade:	NA	NR	187	5(2.67)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: gastrointestinal bleeding If Clavien,report grade:	NA	NR	187	4(2.41)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal	NA	NR	187	6(3.21)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		Define: emesis If Clavien,report grade:						
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: biliary colic If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: pancreatitis If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Gastrointestinal Define: pancreatic fistula If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Cardiovascular Define: total cardiac If Clavien,report grade:	NA	NR	187	9(4.81)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Cardiovascular Define: arrhythmia If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Cardiovascular Define: myocardial infarction If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Cardiovascular Define: congestive heart failure If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Cardiovascular Define: hypertension If Clavien,report grade:	NA	NR	187	7(3.74)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: total pulmonary If Clavien,report grade:	NA	NR	187	8(4.28)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: pneumonia If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: pneumothorax If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: respiratory distress If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: pleural effusion If Clavien,report grade:	NA	NR	187	3(1.6)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Respiratory Define: atelectasis If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hematologic (thromboembolic) Define: total thromboembolic If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hematologic (thromboembolic) Define: deep vein thrombosis If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hemorrhage Define: total bleeding If Clavien,report grade:	NA	NR	187	7(3.74)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hemorrhage Define: perinephric hematoma If Clavien,report grade:	NA	NR	187	0(0)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hemorrhage Define: other postoperative hemorrhage If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Hematologic (thromboembolic) Define: anemia If Clavien,report grade:	NA	NR	187	3(1.6)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Neurologic Define: total neurologic If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Neurologic Define: cerebrovascular event If Clavien,report grade:	NA	NR	187	4(2.41)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Neurologic Define: neuropathy If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Neurologic Define: syncope If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: total miscellaneous If Clavien,report grade:	NA	NR	187	8(4.28)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: anaphylaxis If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: Chylous leak If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: gout If Clavien,report grade:	NA	NR	187	2(1.07)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: hyponatremia If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: shock If Clavien,report grade:	NA	NR	187	1(0.53)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: hypoalbuminemia If Clavien,report grade:	NA	NR	187	4(2.14)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Other-define Define: death If Clavien,report grade:	NA	NR	187	0(0)	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: I	NA	NR	187	20	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: II	NA	NR	187	41	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: IIIa	NA	NR	187	6	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: IIIb	NA	NR	187	1	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: IV a	NA	NR	187	0	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: IV b	NA	NR	187	0	NR	NR
Xu, 2014 ⁵³	Arm 4(OPN)	Harm Name: Define: If Clavien,report grade: V	NA	NR	187	0	NR	NR
Yasuda, 2013 ⁹²	Arm 2(RN)	Harm Name: Other-define Define: complications If Clavien,report grade: I	NA	NR	103	10(9.7)	NR	NR
Yasuda, 2013 ⁹²	Arm 2(RN)	Harm Name: Other-define Define:	NA	NR	103	5(4.9)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		complications If Clavien,report grade: II						
Yasuda, 2013 ⁹²	Arm 2(RN)	Harm Name: Other-define Define: complications If Clavien,report grade: IIIa	NA	NR	103	1(1)	NR	NR
Yasuda, 2013 ⁹²	Arm 1(NSS)	Harm Name: Other-define Define: complications If Clavien,report grade: I	NA	NR	97	7(7.2)	NR	NR
Yasuda, 2013 ⁹²	Arm 1(NSS)	Harm Name: Other-define Define: complications If Clavien,report grade: II	NA	NR	97	6(6.2)	NR	NR
Yasuda, 2013 ⁹²	Arm 1(NSS)	Harm Name: Other-define Define: complications If Clavien,report grade: IIIa	NA	NR	97	6(6.2)	NR	NR
Youn, 2013 ¹³⁰	Arm 2(Laparoscopic RFA)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	41	1(NR)	NR	NR
Youn, 2013 ¹³⁰	Arm 2(Laparoscopic RFA)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	41	0(NR)	NR	NR
Youn, 2013 ¹³⁰	Arm 1(Open PN)	Harm Name: Ureteral injury (any injury of collecting system and ureter) Define: NA If Clavien,report grade: NA	NA	NR	14	0(NR)	NR	NR
Youn, 2013 ¹³⁰	Arm 1(Open PN)	Harm Name: Infectious disease Define: NA If Clavien,report grade: NA	NA	NR	14	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Cooper, 2015 ¹⁴¹	Arm 1(RFA)	Harm Name: Kidney Injury Define: NA If Clavien,report grade: NA	NA	NR	9	0(NR)	NR	NR
Cooper, 2015 ¹⁴¹	Arm 2(PN)	Harm Name: Kidney Injury Define: NA If Clavien,report grade: NA	NA	NR	9	0(NR)	NR	NR
Cooper, 2015 ¹⁴¹	Arm 3(RN)	Harm Name: Kidney Injury Define: NA If Clavien,report grade: NA	NA	NR	31	4(NR)	NR	NR
Cooper, 2015 ¹⁴¹	Arm 1(RFA)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	9	0(NR)	NR	NR
Cooper, 2015 ¹⁴¹	Arm 2(PN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	9	1(NR)	NR	NR
Cooper, 2015 ¹⁴¹	Arm 3(RN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	31	12(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	27	0(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Hematuria Define: NA If Clavien,report grade: NA	NA	NR	29	0(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	27	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	29	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	27	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Hematologic (thromboembolic) Define: NA If Clavien,report grade: NA	NA	NR	29	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	27	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	29	0(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Need for subsequent intervention Define: Drainage If Clavien,report grade: NA	NA	NR	27	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Need for subsequent intervention Define: Drainage If Clavien,report grade: NA	NA	NR	29	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I	NA	NR	27	0(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Listed by severity of	NA	NR	29	0(NR)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: I						
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	27	1(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: II	NA	NR	29	0(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 1(RFA)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIa	NA	NR	27	3(NR)	NR	NR
Chang, 2015 ¹²⁷	Arm 2(PN)	Harm Name: Listed by severity of complications (using the Clavien Grading System if available) Define: NA If Clavien,report grade: IIIa	NA	NR	29	2(NR)	NR	NR
Chang, 2014 ⁹⁵	Arm 1(RN)	Harm Name: Acute kidney injury Define: NA If Clavien,report grade: NA	NA	3years	339	237(70.1)	NR	Comp. Arm: Arm 2 P: <0.001
Chang, 2014 ⁹⁵	Arm 2(PN)	Harm Name: Acute kidney injury Define:	NA	3years	218	53(24.3)	NR	NR

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
		NA If Clavien,report grade: NA						
Van Poppel, 2006 ⁹⁶	Arm 1(RN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	287	0(0)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 2(PN)	Harm Name: Urine leak Define: NA If Clavien,report grade: NA	NA	NR	242	10(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 1(RN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	287	49(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 2(PN)	Harm Name: Hemorrhage Define: NA If Clavien,report grade: NA	NA	NR	242	68(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 1(RN)	Harm Name: Other-define Define: Spleen damage If Clavien,report grade: NA	NA	NR	287	2(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 2(PN)	Harm Name: Other-define Define: Spleen damage If Clavien,report grade: NA	NA	NR	242	1(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 1(RN)	Harm Name: Other-define Define: Pleura damage If Clavien,report grade: NA	NA	NR	287	25(NR)	NR	NR
Van Poppel, 2006 ⁹⁶	Arm 2(PN)	Harm Name: Other-define Define: Pleura damage If Clavien,report grade: NA	NA	NR	242	27(NR)	NR	NR
ACTIVE SURVEILLANCE(UNCONTROLLED STUDIES)								
Oncologic efficacy								

Author, year	Arm(name)	Outcome and Units	Baseline Outcome	Time point	N for analysis	Outcome at Timepoint(s): n(%)	Within Arm	Between Arm Comparisons
Rosales, 2010 ¹⁵⁰	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	NR	212	NR(98.1)	NR	NR
Rosales, 2010 ¹⁵⁰	Overall(Active Surveillance)	Cancer-specific survival: n(%)	NA	NR	212	NR(99.5)	NR	NR
Crispen, 2009 ¹⁴⁷	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	mean of 31 months	173	172(99.4)	NR	NR
Crispen, 2008 ¹⁴⁶	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	mean of 33.4 months	70	69(98.6)	NR	NR
Abouassaly, 2008 ¹⁴⁵	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	median of 24 months	110	NR(98.2)	NR	NR
Abouassaly, 2008 ¹⁴⁵	Overall(Active Surveillance)	Cancer-specific survival: n(%)	NA	median of 24 months	110	NR(100)	NR	NR
Kunkle, 2007 ¹⁴⁹	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	median of 29 months	89	88(98.9)	NR	NR
Jewett, 2011 ¹⁴⁸	Overall(Active Surveillance)	Cancer-specific survival: n(%)	NA	>12 months	178	176(98.9)	NR	NR
Jewett, 2011 ¹⁴⁸	Overall(Active Surveillance)	Metastasis-free survival: n(%)	NA	>12 months	178	178(100)	NR	NR
Leonard, 2013 ⁴²	Overall(Active surveillance)	Metastasis-free survival: n(%)	NA	Mean of 27.86 months	133	132(99.2)	NR	NR
Overall Survival								
Rosales, 2010 ¹⁵⁰	Overall(Active Surveillance)	Overall survival	NA	NR	212	NR(93)	NR	NR
Abouassaly, 2008 ¹⁴⁵	Overall(Active Surveillance)	Overall survival	NA	median 2 years	110	NR(69)	NR	NR
Jewett, 2011 ¹⁴⁸	Overall(Active Surveillance)	Overall survival	NA	>1	178	168(94.4)	NR	NR

N=Number; GFR: Glomerular Filtration Rate; H: Hypertension; IQR: Interquartile range; LPN: Laparoscopic partial nephrectomy; LTA: Laparoscopic Thermal Ablation; NA: Not Applicable; NR: Not reported; NSM: Non surgical Management; NSS: Nephron-sparing surgery; OPN: Open partial nephrectomy; ORN: Open Radical Nephrectomy; PN: Partial Nephrectomy; RFA: Radio frequency ablation; RN Radical nephrectomy; SD: Standard deviation; OR=Odds Ratio; RD=Risk Difference; P=p value