Appendix 8

Characteristics of included studies

Study ID	Participants	Intervention(s) and comparators	Outcomes summary
B2222 Blanke 2008 ^{38,39} Time period: July 2000 to May 2006 Countries involved: 2 (Finland, USA) No. of institutions involved: 4	n receiving intervention(s): 43 n receiving comparator(s): 0 Baseline characteristics: not stated	Escalated dose intervention(s): imatinib at 600 mg/day Comparator(s): NA	<i>n</i> (%) showing response or SD: 11/43 (25.6%)
\$0033 Blanke 2008 ^{41,68,77} Time period: December 2000 to (CiC information has been removed) Countries involved: 2 (Canada, USA) No. of institutions involved: 148	n receiving intervention(s): 118 n receiving comparator(s): 0 Baseline characteristics: not stated	Escalated dose intervention(s): imatinib at 800 mg/day Comparator(s): NA	n (%) showing response or SD: 36/117 (30.8%) Median OS: 19 months (95% CI 13 to 23 months) n (%) still alive at data cut-off point: 42/118 (35.6%) Median PFS: 5 months (2–10 months) n (%) still progression free at data cut-off point: 19/118 (16.1%)
Park 2009 ⁷⁹ Time period: June 2001 to June 2006 Countries involved: 1 (Republic of Korea) No. of institutions involved: 1	n receiving intervention: 24 n receiving comparator(s): 0 Baseline characteristics: Age: Median, years (range): 52 (31–73) Sex: n (%) male: 18 (75.0%) n (%) female: 6 (25.0%) ECOG performance status: 0: 4 (16.7%) 1: 18 (75.0%) 2: 2 (8.3%) Primary tumour site: Stomach: 5 (20.8%) Small bowel: 15 (62.5%) Colon or rectum: 3 (12.5%) Omentum: 1 (4.2%) n receiving previous treatment of: Surgery: 20 (83.3%) Conventional chemotherapy: 3 (12.5%) Radiofrequency ablation: 1 (4.2%) Transarterial chemoembolization: 1 (4.2%) Site(s) of metastases at time of dose escalation: Liver: 20 (83.3%) Peritoneum: 15 (62.5%) Retroperitoneum: 5 (20.8%)	Escalated dose intervention(s): imatinib at 600 mg/day; imatinib at 800 mg/day Comparator(s): NA	n (%) showing response or SD: at 600 mg/day – 5/12 (41.6%); at 800 mg/day – 4/12 (33.3%) Median time to progression: at 600 mg/day – 1.7 months (range 0.7–24.9 months).

Study ID	Participants	Intervention(s) and comparators	Outcomes summary
	n (%) with prior response to standard-dose		
	imatinib of:		
	PR: 9 (37.5%)		
	SD: 8 (33.3%)		
	PD: 7 (29.2%)		
	n (%) whose time to progression (TTP) with standard-dose imatinib was:		
	≤ 6 months: 8 (33.3%)		
	> 6 months: 16 (66.7%)		
	n (%) given initial escalated dose of imatinib at.		
	600 mg/day: 12 (50.0%)		
	800 mg/day: 12 (50.0%)		
Seddon 200880-86	n receiving intervention: 0	Escalated dose	Median OS: 90 weeks (95% Cl 73 to 106 weeks
Time period: not stated	n receiving comparator(s): 351	intervention(s):	n (%) still alive at data cut-off point: 193/351
to December 2007	Baseline characteristics: not stated	NA O a mara a mada m(a)	(55.0%)
Countries involved: 33 (not stated)		Comparator(s): sunitinib at 50 mg/	
No. of institutions		day in a 6-week cycle of 4 weeks	
involved: 96		on treatment/2	
		weeks off treatment	
Zalcberg 200544	n receiving intervention: 133	Escalated dose	n (%) showing response or SD: 39/133 (29.39)
Time period: (CiC	n receiving comparator(s): 0	intervention(s):	'Response to cross-over occurred significantly more often in wild-type cases (83%) compared with KIT exon 11 mutants (7%) (p =0.0012, Fisher's exact test), and in KIT exon 9 mutants
information has been	Baseline characteristics:	imatinib at 800 mg/day	
removed) to April 2004	Age:	Comparator(s):	
Countries involved: 13: (Australia, Belgium,	Median, years (range): 59 (20-85)	NA	(57%) compared to <i>KIT</i> exon 11 mutants
Denmark, France,	Sex:		(p=0.0017, Fisher's exact test)'
Germany, Italy, the Netherlands, New Zealand, Poland,	n (%) male: 87 (65%)		Median PFS: 81 days
	n (%) female: 46 (36%)		n (%) still progression free at data cut-off point: 24/133 (18.8%)
Singapore, Spain,	ECOG performance status:		•
Switzerland, UK)	0: 63 (47%)		Median duration of response: 153 days (range 37–574 days)
No. of institutions involved: 56	1: 49 (37%)		n (%) of patients requiring at least one dose
	2: 12 (9%)		reduction: 12/77 (15.6%)
	3: 9 (7%)		n (%) of patients requiring at least one dose
	n (%) whose primary tumour site was:		delay: 18/77 (23.4%)
	GI: 109 (82%)		n (%) with adverse events:
	Gastric: 34 (26%)		Oedema: 99/124 (79.8%)
	Small bowel: 35 (26%)		Skin rash: 45/124 (36.3%)
	Duodenum: 20 (15%)		Fatigue: 102/124 (82.3%)
	Other GI: 20 (15%)		Dyspnoea: 30/124 (24.2%)
	Other abdominal 20 (15%)		Infection: 20/124 (16.1%)
	Retroperitoneal: 4 (3%)		Nausea: 82/124 (66.1%)
	n (%) with time since primary diagnosis of.		Leucopenia: 56/121 (46.3%)
	<12 months: 70 (53%)		Neutropenia: 49/121 (40.5%)
	12–24 months: 29 (22%)		Thrombocytopenia: 7/121 (5.8%)
	> 24 months: 34 (26%)		Anaemia: 119/121 (98.3%)

Study ID	Participants	Intervention(s) and comparators	Outcomes summary
	n (%) with site(s) of active disease at study entry in:		n (%) with adverse event reporting decrease severity after crossover:
	Site of primary tumour: 50 (38%)		Oedema: 25/99 (25.3%)
	Liver: 96 (72%)		Skin rash: 23/45 (51.1%)
	Lung: 16 (12%)		Fatigue: 21/102 (20.6%)
	Ascites: 12 (9%)		Dyspnoea: 8/30 (26.7%)
	Pleura: 4 (3%)		Infection: 9/20 (45.0%)
	Bone: 3 (2%)		Nausea: 38/82 (46.3%)
	Skin: 3 (2%)		Leucopenia: 25/56 (44.6%)
	n (%) receiving previous treatment of.		Neutropenia: 30/49 (61.2%)
	Surgery: 116 (87%)		Thrombocytopenia: 4/7 (57.1%)
	Radiotherapy: 6 (5%)		Anaemia: 15/119 (12.6%)
	Chemotherapy: 51 (38%)		n (%) with adverse event reporting increased severity after crossover:
			Oedema: 33/99 (33.3%)
			Skin rash: 19/45 (42.2%)
			Fatigue: 47/102 (46.1%)
			Dyspnoea: 14/30 (46.7%)
			Infection: 9/20 (45.0%)
			Nausea: 26/82 (31.7%)
			Leucopenia: 16.56 (28.6%)
			Neutropenia: 13/49 (26.5%)
			Thrombocytopenia: 2/7 (28.6%)
			Anaemia: 51/119 (42.9%)
			n (%) with adverse event achieving increase severity to grade 3- to grade-4 level:
			Oedema: 7/99 (7.1%)
			Skin rash: 2/45 (4.4%)
			Fatigue: 10/102 (9.8%)
			Dyspnoea: 1/30 (3.3%)
			Infection: 1/20 (5.0%)
			Nausea: 3/82 (3.7%)
			Leucopenia: 0/56 (0.0%)
			Neutropenia: 0/49 (0.0%)
			Thrombocytopenia: 0/7 (0.0%)
			Anaemia: 17/119 (14.3%)

NA, not available.