**Table D-4c. Outcomes reported for studies evaluating surgery as treatment of chronic venous ulcers (KQ3a)**

| **Author, year** | **Group 1, N** | **Group 2, N** | **Outcome (definition)** | **Timepoint** | **Results , Group1** | **Results, Group2** |
| --- | --- | --- | --- | --- | --- | --- |
| **Barwell, 2000**[**62**](#_ENREF_62) | Compression: refused surgery, 105 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 131 | rate wound recurrence (epithelial breakdown in ipsilateral leg) | 36 months | Total events recurrent ulcers (%): (26) | Total events recurrent ulcers (%): (24)  P: 0.029 ref Grp1 |
| **Barwell, 2000**[**62**](#_ENREF_62) | Compression: refused surgery, 105 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 131 | prop ulcers healed surg site infection (full ulcer re-epithelialization) | 24 weeks | Total events (%): (74) | Total events (%): (72) |
| **Barwell, 2004**[**60**](#_ENREF_60) | Compression: multi layer, 214 | Superficial Vein Surgery-vein stripping; Compression: multi layer, 214 | rate wound recurrence (epithelial breakdown anywhere between the knee and the malleoli of the study leg.) | 14 months | Total events (%): 73  Denominator: 214 Persons  RH: ref  Final percentage: 28 | Total events (%): 32  Denominator: 214 Persons  RH: -2.76  Final percentage: 12  P: 0.737 (ref: Grp1) |
| **Barwell, 2004**[**60**](#_ENREF_60) | Compression: multi layer, 185 | Superficial Vein Surgery-vein stripping; Compression: multi layer, 156 | prop ulcers healed wound healing rates no intermediate to complete surg site infection (complete epithelialization) | 12 weeks | Total events (%): 141  Denominator: 185 Persons  RH: ref  Final percentage: 76 | Total events (%): 128  Denominator: 156 Persons  RH: 0.84;  Final percentage: 82  P: <0.001 (ref: Grp1) |
| Galimberti, 1988[66](#_ENREF_66) | Compression: 2 layer and hydrocolloid: | Sclerotherapy  Compression: 2 layer and hydrocolloid | Wound healing | NA | pts with event (%): 72 (100)  Time to healing: 23 weeks | pts with event (%): 46 (100)  Time to healing: 20 weeks |
| Galimberti, 1988[66](#_ENREF_66) | Compression: 2 layer and hydrocolloid: | Sclerotherapy  Compression: 2 layer and hydrocolloid | Wound reccurence | NA | pts with event (%): 21/46 (29) | pts with event (%): 0 (0) |
| **Gohel, 2007**[**59**](#_ENREF_59) | Compression: multi layer, 156 | Superficial Vein Surgery-vein stripping; Compression: multi layer, 185 | prop ulcers healed wound healing rates no intermediate to complete (complete re-epithelialization of the leg) | 36 months | pts with event (%): 139 (89)  Denominator: 3 Years  Final percentage: 89 | pts with event (%): 172 (93)  Denominator: 3 Years  Final percentage: 93 |
| **Gohel, 2007**[**59**](#_ENREF_59) | Compression: multi layer, 226 | Superficial Vein Surgery-vein stripping; Compression: multi layer, 216 | rate wound recurrence (any breakdown of epithelium between knee and malleoli after ulcer healing as ulcer recurrence.) | 48 months | pts with event (%): 127 (56)  Denominator: 4 Years  RH: ref  Final percentage: 31 | pts with event (%): 67 (31)  Denominator: 4 Years  RH: 2.926  Final percentage: 56 |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (Disease specific quality of life; CXVUQ) | 6 months | Baseline Mean: 60.4  Final Mean: 45.5 | Baseline Mean: 63  Final Mean: 41.1 |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (mental health; SF-36) | 6 months | Baseline Mean: 68.8  Final Mean: 73.1 | Baseline Mean: 71.2  Final Mean: 72.3 |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (role-emotional; SF-36) | 6 months | Baseline Mean: 53.9  Final Mean: 62.2  P: significant' (ref: Grp2) | Baseline Mean: 55.8  Final Mean: 54.8  P: <0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (social functioning; SF-36) | 6 months | Baseline Mean: 63.2  Final Mean: 63.7  P: <0.05 (ref: baseline) | Baseline Mean: 62.9  Final Mean: 62.1  P: >0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (Vitality; SF-36) | 6 months | Baseline Mean: 57.5  Final Mean: 58.4  P: >0.05 (ref: baseline) | Baseline Mean: 59.9  Final Mean: 60.6  P: >0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (General health; SF-36) | 6 months | Baseline Mean: 44.4  Final Mean: 45.9  P: <0.05 (ref: baseline) | Baseline Mean: 41.9  Final Mean: 54.8  P: >0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (bodily pain; SF-36) | 6 months | Baseline Mean: 42.1  Final Mean: 54.1  P: >0.05 (ref: baseline) | Baseline Mean: 45.5  Final Mean: 46.6  P: >0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (role-Physical; SF-36) | 6 months | Baseline Mean: 41  Final Mean: 48.8  P: >0.05 (ref: baseline) | Baseline Mean: 38.1  Final Mean: 46.1  P: <0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | functional status (Physical functioning; SF-36) | 6 months | Baseline Mean: 36.7  Final : 37.5  P: >0.05 (ref: baseline) | Baseline Mean: 37.6  Final : 44.8  P: >0.05 (ref: Baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | time to complete closure wound healing rates no intermediate to complete (expressed in days for those whose ulcers did heal; acetate tracing used to identify date of healing) | 26 weeks | Adjusted Hazard ratio: ref  P: (ref )  Final Median: 98  P: <0.05 (ref: baseline) | Adjusted Hazard ratio: 0.79  Final Median: 83  P: <0.05 (ref: baseline) |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer, 39 | Superficial Vein Surgery-vein stripping Perforator-SEPS; Compression: 4-layer, 37 | prop ulcers healed (percentage from time of randomization to six months post- randomization; acetate tracing used to identify date of healing) | 26 weeks | Total events (%): 25  Denominator: 37 Persons  Final :  P: <0.05 (ref: baseline) | Total events (%): 25  Denominator: 37 Persons  Final :  P: <0.05 (ref: baseline) |
| **O'Hare, 2010**[**58**](#_ENREF_58) | Compression: multi layer, 20 | Perforator-sclerotherapy; Compression: multi layer, 13 | prop ulcers healed wound healing rates no intermediate to complete (%) | 24 weeks | pts with event (%): 17 (85)  Denominator: Persons | pts with event (%): 12 (92)  Denominator: Persons |
| **Rojas, 2009**[**63**](#_ENREF_63) | Compression: Unna boot, 37 | Perforator-sclerotherapy Other-ultrasound guided; Compression: Unna boot, 33 | prop ulcers healed (healed) | NR | pts with event (%): 23 (62.1) | pts with event (%): 28 (84.9)  Final :  P: 0.029 (ref: Grp1) |
| **Rojas, 2009**[**63**](#_ENREF_63) | Compression: Unna boot, 33 | Perforator-sclerotherapy Other-ultrasound guided; Compression: Unna boot, 33 | time to complete closure (weeks to healed) | NR | P: <0.001(ref Grp1-G2)  Final Mean: 20 | Final Mean: 8 |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression, 102 | Perforator-SEPS; Compression: 2 layer compression, 94 | mortality (Not further specified) | 36 months | pts with event (%): 17 (17)  Denominator: 102 limbs  P: >0.05 (ref: baseline) | pts with event (%): 8 (9)  Denominator: 94 limbs  P: 0.41 (ref: Grp1) |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression, 102 | Perforator-SEPS; Compression: 2 layer compression, 94 | prop ulcers healed (Not further specified) | 36 months | pts with event (%): 74 (73)  Denominator: 102 limbs | pts with event (%): 78 (83)  Denominator: 94 limbs |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression, 94 | Perforator-SEPS; Compression: 2 layer compression, 94 | time to complete closure (months) | NR | Final Median: 15 | Final Median: 11 |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression, 102 | Perforator-SEPS; Compression: 2 layer compression, 94 | rate wound recurrence (Not further specified) | 36 months | pts with event (%): 23 (23)  Denominator: 102 limbs | pts with event (%): 21 (22)  Denominator: 94 limbs |
| **Zamboni, 2003**[**61**](#_ENREF_61) | Compression: 20-30mmHg, 24 | Superficial Vein Surgery-vein stripping; Compression: 20-30mmHg pressure, 23 | rate wound recurrence (Not further specified) | 36 months | Total events (%): 9 (38)  Denominator: 24 Persons:  P: <0.001(ref Grp1-G2)  Final percentage: 96 | Total events (%): 2 (9)  Denominator: 23 Persons:  P: Grp1-G2(ref 000000000)  Final percentage: 100  P: <0.001 (ref: Grp1) |
| **Zamboni, 2003**[**61**](#_ENREF_61) | Compression: 20-30mmHg, 24 | Superficial Vein Surgery-vein stripping; Compression: 20-30mmHg pressure, 23 | time to complete closure wound healing rates no intermediate to complete (Not further specified) | 36 months | Total events (%): (96)  P: <0.001(ref Grp1-G2)  Final Percentage: 96 | Total events (%): (100)  P: Grp1-G2(ref 010011100)  Final Percentage: 100  P: 0.85 (ref: Grp1) |