**Table D-2. Study population characteristics of studies evaluating treatments for chronic venous ulcers**

| **Author, year** | **Intervention used** | **N enrolled** | **% Male** | **Age (years)** | **Ulcer duration** | **Smoking status**  **Diabetes status**  **Systemic disease status** | **Immunosuppressant use**  **Corticosteroid use**  **Additional procedures** | **Withdrawals** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Alinovi, 1986**[**82**](#_ENREF_82) | Compression: bandages | 24 | 46 | Mean: 66.7  Range: 46 to 81 | Mean: 11.7 months | smoking NR  systemic disease NR | IMM NR  Steroids NR  Additional procedure NR |  |
| **Alinovi, 1986**[**82**](#_ENREF_82) | antibiotic used: systemic antibiotics | 23 | 57 | Mean: 69.3  Range: 46 to 85 | Mean: 10.4 months | smoking NR  systemic disease NR | IMM NR  Steroids NR  Additional procedure NR | 1 |
| **Arnold, 1994**[**39**](#_ENREF_39) | Compression: Unna boot gradient and zinc oxide paste  AWD used: impreg gauze paraffin in US, salin/betadine in UK | 35 | Gender NR | Mean: 60 | Mean: 47.8 | Smoking status NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  Additional procedure NR | 7 |
| **Arnold, 1994**[**39**](#_ENREF_39) | Compression: Unna boot gradient and zinc oxide paste  AWD used: hydrocolloid | 35 | Gender NR | Mean: 65 | Mean: 46.2 | Smoking status NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  Additional procedure NR | 9 |
| **Backhouse, 1987**[**43**](#_ENREF_43) | Compression: multi layer  AWD used: Non-adherence non-occlusive dressing | 28 | 43 | Mean: 67.5  Median:  Range: 30 to 90 | Median: 21 months  Range: 84 to months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Backhouse, 1987**[**43**](#_ENREF_43) | Compression: multi layer  AWD used: hydrocolloid Granuflex (occlusive hydrocolloid) | 28 | 39 | Mean: 69.9  Median:  Range: 34 to 92 | Median: 22 months  Range: 88 to months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Barwell, 2000**[**62**](#_ENREF_62) | Compression: refused surgery | 515 | gender NR | Median: 77  Range: 29 to 92 | Mean: weeks  Median: 16 weeks  Range: 4 to 260 weeks | smoking NR  1  Rheumatoid Arthritis | NR  steroid NR  additional procedure NR | Total: 65 |
| **Barwell, 2000**[**62**](#_ENREF_62) | surgery: vein stripping, SEPS | 131 | gender NR | Median: 70  Range: 27 to 97 | Median: 18 weeks  Range: 4 to 180 weeks | smoking NR  9  Rheumatoid Arthritis | NR  steroid NR  additional procedure NR | Total: 65 |
| **Barwell, 2004**[**60**](#_ENREF_60) | Compression: multi layer | 258 | 44 | Median: 72 | Median: 5 months | smoking NR  10  Rhuematoid Arthritis | NR  steroid NR  additional procedure NR | 22 Total: 40 |
| **Barwell, 2004**[**60**](#_ENREF_60) | Compression: multi layer  surgery: vein stripping | 242 | 40 | Median: 74 | Median: 5 months | smoking NR  5  Rhuematoid Arthritis | NR  steroid NR  additional procedure NR | 18 Total: 40 |
| **Beckert, 2006**[**31**](#_ENREF_31) | Compression: 2 layer compression  AWD used: hydrogel mildy antimicrobial shale oil | 62 | 32 | Mean: 66.8 | Mean: 24.9 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  Jelonet (Nonadherent wound dressing): 100% | 9 Total: 18 |
| **Beckert, 2006**[**31**](#_ENREF_31) | Compression: 2 layer compression  AWD used: hydrogel | 57 | 33 | Mean: 70.6 | Mean: 17.8 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  Jelonet (Nonadherent wound dressing): 100% | 9 Total: 18 |
| **Bello, 1999**[**71**](#_ENREF_71) | surgery: other surgery | 111 | 32 | Median: 72  Range: 28 to 94 | Median: 32 weeks  Range: 2 to 1680 weeks | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR | 12 Total: 12 |
| **Cambal, 2008**[**69**](#_ENREF_69) | Compression: multi layer  surgery: vein stripping | 39 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Cambal, 2008**[**69**](#_ENREF_69) | Compression: multi layer  surgery: SEPS | 56 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Cambal, 2008**[**69**](#_ENREF_69) | Compression: multi layer  surgery: sclerotherapy | 698 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **El-Hafez, 2004**[**68**](#_ENREF_68) | Compression: multi layer  AWD used: hydrocolloid  antibiotic used:  surgery: vein stripping | 10 | gender NR | age NR | Mean: 10.7 months  Range: 7 to 15 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  intravenous antibiotics |  |
| **El-Hafez, 2004**[**68**](#_ENREF_68) | Compression: multi layer  AWD used: hydrocolloid  surgery: ligation | 26 | gender NR | age NR | Mean: 11.1 months  Range: 8 to 15 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  intravenous antibiotics |  |
| **Falanga V, 1999**[**51**](#_ENREF_51) | Compression: Unna boot | 48 | 64.6 | Mean: 57.1  Range: 31 to 83 | Range: 12 to months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Falanga V, 1999**[**51**](#_ENREF_51) | Compression: Unna boot  AWD used: cellular or ECM | 74 | 58.1 | Mean: 58.7  Range: 20 to 86 | Range: 12 to months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Falanga, 1998**[**38**](#_ENREF_38) | Compression: Unna boot | 129 | 50.4 | Mean: 60.4  Range: 31 to 85 | Duration of ulcer NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  Steroids: 0%  additional procedure NR | 33 |
| **Falanga, 1998**[**38**](#_ENREF_38) | Compression: Unna boot  AWD used: cellular or ECM | 146 | 53.4 | Mean: 60.2  Range: 28 to 84 | Duration of ulcer NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  Steroids: 0%  additional procedure NR | 29 |
| **Franks, 2007**[**28**](#_ENREF_28) | Compression: short stretch multi layer  AWD used: foam | 81 | 39.5 | Mean: 69.3 | Median: 8 weeks  Range: 2 to 36 weeks | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 23 Total: 46 |
| **Franks, 2007**[**28**](#_ENREF_28) | Compression: short stretch multi layer  AWD used: foam | 75 | 38.7 | Mean: 69.2 | Median: 8 weeks  Range: 2 to 40 weeks | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 23 Total: 46 |
| **Galimberti, 1988**[**66**](#_ENREF_66) | Compression: 2 layer  AWD: hydrocolloid | 72 | 8 | Mean: 69 | Mean: 23 weeks | smoking NR  diabetes NR  systemic disease NR | NR | 0 |
| **Galimberti, 1988**[**66**](#_ENREF_66) | Compression: 2 layer  AWD: hydrocolloid  Sclerotherapy | 46 | 5 | Mean: 67 | Mean: 20 weeks | smoking NR  diabetes NR  systemic disease NR | NR | 0 |
| **Gatti, 2011**[**45**](#_ENREF_45) | Compression: Unna boot  AWD used: Essential fatty acid | 11 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Gatti, 2011**[**45**](#_ENREF_45) | Compression: Unna boot  AWD used: Essential fatty acid and fibrin sealant | 13 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Gethin, 2009**[**24**](#_ENREF_24) | Compression: multi layer  AWD used: hydrogel | 54 | gender NR | Mean: 68.3 | Mean: 29.93 weeks | Smoker: 15%  diabetes NR  Hypertension: 35 | IMM NR  Steroids: 0%  additional procedure NR | 17 |
| **Gethin, 2009**[**24**](#_ENREF_24) | Compression: multi layer  AWD used: Manuka honey | 54 | gender NR | Mean: 68.5 | Mean: 39.46 weeks | Smoker: 19%  diabetes NR  Hypertension: 26 | IMM NR  Steroids: 0%  additional procedure NR | 9 |
| **Gohel, 2007**[**59**](#_ENREF_59) | Compression: multi layer | 258 | 44 | Median: 72 | Median: 5 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR | 27 Total: 54 |
| **Gohel, 2007**[**59**](#_ENREF_59) | Compression: multi layer  surgery: vein stripping | 242 | 40 | Median: 74 | Median: 5 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR | 27 Total: 54 |
| **Gottrup, 2007**[**27**](#_ENREF_27) | Compression: unspec compression  AWD used: foam | 60 | 38 | Mean: 70 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 3 |
| **Gottrup, 2007**[**27**](#_ENREF_27) | Compression: unspec compression  AWD used: foam Ibuprofen | 62 | 31 | Mean: 66 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 7 |
| **Gottrup, 2008**[**23**](#_ENREF_23) | Compression: kept a constant circumference at the ankle  AWD used: foam NO ibuprofen (trade name: Biatain Non-adhesive, Coloplast A/S) | 60 | 38 | Mean: 70 | Mean: 19.8 months | smoking NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  Additional procedure NR |  |
| **Gottrup, 2008**[**23**](#_ENREF_23) | Compression: kept a constant circumference at the ankle  AWD used: foam contained ibuprofen (112.5 mg released over 7 d in presence of exudate), trade name: Biatain-Ibu Non-Adhesive foam dressing, Coloplast A/S | 62 | 31 | Mean: 66 | Mean: 23.1 months | smoking NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  Additional procedure NR | 13 |
| **Greguric, 1994**[**48**](#_ENREF_48) | Compression: 2 layer compression  AWD used: magnesium sulfate paste + vaseline + gauze | 55 | 44 | Mean: 61 | Median: 284 weeks | Smoker: 25%  diabetes NR  systemic disease NR | IMM: 0%  Steroids: 0%  Additional procedure NR |  |
| **Greguric, 1994**[**48**](#_ENREF_48) | Compression: 2 layer compression  AWD used: hydrocolloid Varihesive E (hydrocolloid in adhesive elastomeric polymer matrix with outer film coated w/ polyurethane foam) | 55 | 38 | Mean: 61 | Median: 248 weeks | Smoker: 15%  diabetes NR  systemic disease NR | IMM: 0%  Steroids: 0%  Additional procedure NR |  |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer | 37 | 35 | Mean: 67 | Median: 6 months  Range: 1 to 200 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR |  |
| **Guest, 2003**[**64**](#_ENREF_64) | Compression: 4-layer  surgery: vein stripping, SEPS | 39 | 38 | Mean: 68 | Median: 6 months  Range: 1 to 240 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR |  |
| **Hansson, 1998**[**37**](#_ENREF_37) | Compression: short stretch  AWD used: paraffin gauze | 40 | Gender NR | Mean: 72 | duration NR | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 9 |
| **Hansson, 1998**[**37**](#_ENREF_37) | Compression: short stretch  AWD used: hydrocolloid Duoderm | 48 | Gender NR | Mean: 74 | duration NR | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 7 |
| **Hansson, 1998**[**37**](#_ENREF_37) | Compression: short stretch  AWD used: antibacterial dressings cadexomer iodine paste | 56 | Gender NR | Mean: 74 | duration NR | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 12 |
| **Harding, 2005**[**33**](#_ENREF_33) | Compression: 2 layer compression  AWD used: hydrocolloid keratinocyte lysate | 46 | 39 | Median: 68  Range: 46 to 82 | Median: 0.83 years  Range: 0.2 to 47 years | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 16 |
| **Harding, 2005**[**33**](#_ENREF_33) | Compression: 2 layer compression  AWD used: hydrocolloid | 53 | 43 | Median: 68  Range: 40 to 84 | Median: 0.75 years  Range: 0.1 to 20 years | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 16 |
| **Harding, 2005**[**33**](#_ENREF_33) | Compression:  AWD used: cellular or ECM | 95 | 25 | Median: 67  Range: 36 to 85 | Median: 0.83 years  Range: 0.1 to 20 years | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 16 |
| **Harding, 2011**[**20**](#_ENREF_20) | Compression: UK Class III compression system  AWD used: antibacterial dressings impreg gauze | 136 | 33.8 | Mean: 71.21  Range: 40 to 99 | Mean: 0.72 years | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 16 Total: 27 |
| **Harding, 2011**[**20**](#_ENREF_20) | Compression: UK Class III compression system  AWD used: specialty absorp antibacterial dressings | 145 | 35.2 | Mean: 68.72  Median:  Range: 34 to 97 | Mean: 0.8 years | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 11 Total: 27 |
| **Harlander-Locke, 2011**[**74**](#_ENREF_74) | Compression: multi layer  surgery: RFA | 72 | 44 | Mean: 71 | Mean: 71 months  Range: 2 to 432 months | smoking NR  20.8  Vasculitis | NR  steroid NR  microphlebectomy | 4 |
| **Holloway, 1989**[**42**](#_ENREF_42) | Compression: Toe-to-knee elastic compression bandage | 37 | 73 | Mean: 61.5  Range: 31 to 84 | Mean: 11.4 months  Median: 4.5 months  Range: 3 to 130 months | smoking NR  diabetes NR  Systemic disease NR | IMM NR  steroid NR  additional procedure NR | Not given Total: 21 |
| **Holloway, 1989**[**42**](#_ENREF_42) | Compression: Toe-to-knee elastic compression bandage  AWD used: hydrocolloid antibacterial dressings | 38 | 74 | Mean: 63  Range: 34 to 93 | Mean: 29.5 months  Median: 7.5 months  Range: 3 to 240 months | smoking NR  diabetes NR  Systemic disease NR | IMM NR  steroid NR  additional procedure NR | Not given Total: 21 |
| **Huovinen, 1994**[**57**](#_ENREF_57) | Antibiotic used: Placebo | 10 | Gender NR | Age NR | Mean: 29 months  Range: 3 to 96 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure: comprilan elastic bandage and local therapy, zinc and varitube sock | 1 |
| **Huovinen, 1994**[**57**](#_ENREF_57) | antibiotic used: Placebo trimethoprim/ sulfamethoxazole | 9 | Gender NR | Age NR | Mean: 67 months  Range: 4 to 252 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NRcomprilan elastic bandage and local therapy, zinc and varitube sock | 2 |
| **Huovinen, 1994**[**57**](#_ENREF_57) | antibiotic used: Placebo ciprofloxacin | 12 | Gender NR | Age NR | Mean: 72 months  Range: 3 to 216 months | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NRcomprilan elastic bandage and local therapy, zinc and varitube sock | 1 |
| **Huovinen, 1994**[**57**](#_ENREF_57) | antibiotic used: Placebo |  | Gender NR | Age NR | Duration of ulcer NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR; comprilan elastic bandage and local therapy, zinc and varitube sock |  |
| **Krishnamoorthy, 2003**[**47**](#_ENREF_47) | Compression: multi layer Profore | 13 | 46 | Mean: 67.3 | Median: 73.7 weeks  Range: 8.7 to 260 weeks | Smoking status NR  Diabetes NR  Deep vein thrombosis: 38 | IMM NR  steroid NR  Additional procedure NR | 1 Total: 5 |
| **Krishnamoorthy, 2003**[**47**](#_ENREF_47) | Compression: multi layer Profore  AWD used: cellular or ECM Dermagraft 4pc | 13 | 31 | Mean: 62.5 | Median: 52 weeks  Range: 9 to 260 weeks | Smoking status NR  Diabetes NR  Deep vein thrombosis: 38 | IMM NR  steroid NR  Additional procedure NR | 1 Total: 5 |
| **Krishnamoorthy, 2003**[**47**](#_ENREF_47) | Compression: multi layer Profore  AWD used: Dermagraft 1pc | 14 | 50 | Mean: 72 | Median: 43.3 weeks  Range: 11.7 to 238.3 weeks | Smoking status NR  Diabetes NR  Deep vein thrombosis: 29 | IMM NR  steroid NR  Additional procedure NR | 3 Total: 5 |
| **Krishnamoorthy, 2003**[**47**](#_ENREF_47) | Compression: multi layer Profore  AWD used: Dermagraft 12 pcs | 13 | 38 | Mean: 72.8 | Median: 34.7 weeks  Range: 13 to 260 weeks | Smoking status NR  Diabetes NR  Deep vein thrombosis: 31 | IMM NR  steroid NR  Additional procedure NR | 0 Total: 5 |
| **Kucharzewski, 2003**[**46**](#_ENREF_46) | Compression: Unna boot | 27 | 37 | Mean: 59.2  Range: 50 to 68 | Mean: 70 months  Range: 9 to 100 months | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Kucharzewski, 2003**[**46**](#_ENREF_46) | Compression: unspec compression  AWD used: (Bioprocess) Cellulose membrane | 27 | 44 | Mean: 60.6  Range: 52 to 70 | Mean: 68 months  Range: 7 to 108 months | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Labas, 2009**[**76**](#_ENREF_76) | Compression: multi layer elastic compression for 10 days postsurgery  surgery: valvuloplasty of the popliteal vein and reflux in GSV and SSV treated with compression sclerotherapy | 56 | 22 | Mean: 54  Median:  Range: 27 to 79 | Median: 5 months  Range: 3 to 14 months | Smoking status NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  skin grafting |  |
| **Lammoglia-Ordiales, 2011**[**56**](#_ENREF_56) | Compression: 2 layer compression  AWD used: hydrogel | 19 | 32 | Mean: 62.6 | Mean: 91.89 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 5 Total: 9 |
| **Lammoglia-Ordiales, 2011**[**56**](#_ENREF_56) | Compression: 2 layer compression  AWD used: MTC-2G | 22 | 41 | Mean: 58.12 | Mean: 101.9 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 4 Total: 9 |
| **Lane, 2003**[**77**](#_ENREF_77) | surgery: angioplasty stenting | 41 | 46 | Mean: 60.3  Range: 30 to 82 | Mean: 8.7 months | Smoking status NR  Diabetes NR  Systemic disease NR | IMM NR  Steroids NR  Additional procedure NR |  |
| **Lawrence, 2011**[**14**](#_ENREF_14) | Compression: multi layer  surgery: RFA | 45 | 58 | Mean: 74  Range: 35 to 93 | Mean: 93 months  Range: 1 to 300 months | smoking NR  18  systemic disease NR | 2  steroid NR  additional procedure NR | 10 |
| **Limova, 2003**[**35**](#_ENREF_35) | Compression: 2 layer compression  AWD used: alginate | 10 | 30 | Mean: 75.4  Range: 51 to 88 | Mean: 6.1 months  Range: 2 to 14 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Limova, 2003**[**35**](#_ENREF_35) | AWD used: alginate | 9 | 0 | Mean: 75.8  Range: 45 to 93 | Mean: 9.1 months  Range: 1 to 24 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Maggio, 2011**[**21**](#_ENREF_21) | Compression: multi layer  AWD used: alginate | 26 | 52.2 | Mean: 57.9 | Mean: 23.4 | smoking NR  Diabetes: 0%  systemic disease NR | MM: 0%  Steroids: 0%  Calcium alginate: 100% |  |
| **Maggio, 2011**[**21**](#_ENREF_21) | Compression: multi layer  AWD used: alginate Vulnamin- glycine, leucine, proline, lysine, sodium hyaluronate | 26 | 53.9 | Mean: 58.6 | Mean: 25.4 | smoking NR  Diabetes: 0%  systemic disease NR | IMM: 0%  Steroids: 0%  Calcium alginate: 100% |  |
| **Masuda, 1994**[**72**](#_ENREF_72) | Compression: elastic stocking  surgery: vein stripping | 48 | gender NR | age NR | Mean: 8.3 years | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Michaels, 2009**[**22**](#_ENREF_22) | Compression: multi layer  AWD used: antibacterial dressings | 107 | 50.47 | Mean: 68.8 | duration NR | Smoker: 16.8%  diabetes NR  systemic disease NR | IMM NR  Steroids NR  additional procedure NR | 3 |
| **Michaels, 2009**[**22**](#_ENREF_22) | Compression: multi layer  AWD used: seem to be matched various dressings | 106 | 41.51 | Mean: 72.4 | duration NR | Smoker: 19.8%  diabetes NR  systemic disease NR | IMM NR  Steroids NR  additional procedure NR | 2 |
| **Michaels, 2009**[**22**](#_ENREF_22) | Compression: enzymatic debris  AWD used: hydrocolloid |  | Gender NR | Age NR | duration NR | Smoking status NR  diabetes NR  systemic disease NR | IMM NR  Steroids NR  additional procedure NR |  |
| **Moffatt, 1992**[**49**](#_ENREF_49) | Compression: 4-layer  AWD used: Non-adherent | 30 | 40 | Mean: 71  Range: 26 to 87 | duration NR | smoking NR  Diabetes: 10%  Hypertension: 13 | IMM NR  steroid NR  additional procedure NR | Total: 4 |
| **Moffatt, 1992**[**49**](#_ENREF_49) | Compression: 4-layer  AWD used: hydrocolloid Comfeel, Coloplast | 30 | 50 | Mean: 74  Range: 50 to 89 | duration NR | smoking NR  Diabetes: 0%  Hypertension: 10 | IMM NR  steroid NR  additional procedure NR | Total: 4 |
| **Mostow, 2005**[**32**](#_ENREF_32) | Compression: multi layer Unspecified Compression+ Debridementement | 58 | 36 | Mean: 65  Range: 36 to 93 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 8 Total: 17 |
| **Mostow, 2005**[**32**](#_ENREF_32) | Compression: multi layer  composite acellular or ECM | 62 | 47 | Mean: 63  Range: 21 to 90 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 9 Total: 17 |
| **Nash, 1991**[**73**](#_ENREF_73) | Compression: 30-40mmHg  surgery: vein stripping | 42 | gender NR | age NR | Duration of ulcer NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure NR |  |
| **Nelson, 2007**[**29**](#_ENREF_29) | Compression: multi layer  AWD used: Pentoxifylline, Knitted viscose | 25 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Nelson, 2007**[**29**](#_ENREF_29) | Compression: multi layer  AWD used: hydrocolloid Pentoxifylline | 32 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Nelson, 2007**[**29**](#_ENREF_29) | Compression: multi layer  AWD used: Knitted viscose, Placebo | 27 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Nelson, 2007**[**29**](#_ENREF_29) | Compression: multi layer  AWD used: hydrocolloid Placebo | 33 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **O'Hare, 2010**[**58**](#_ENREF_58) | Compression: multi layer | 22 | gender NR | Median: 69 | Median: 14 weeks | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR | 1 |
| **O'Hare, 2010**[**58**](#_ENREF_58) | Compression: multi layer  surgery: sclerotherapy | 18 | gender NR | Median: 69 | Median: 14 weeks | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR | 3 |
| **Omar, 2004**[**34**](#_ENREF_34) | Compression: 4-layer | 8 | 62 | Mean: 62  Range: 54 to 77 | Mean: 120 weeks  Range: 24 to 288 weeks | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Omar, 2004**[**34**](#_ENREF_34) | Compression: 4-layer  AWD used: cellular or ECM Dermagraft | 10 | 60 | Mean: 58  Range: 44 to 65 | Mean: 118.8 weeks  Range: 12 to 192 weeks | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Ormiston MC, 1983**[**55**](#_ENREF_55) | Compression: unspec compression  AWD used: Cadexomer iodine | 27 | 33.3 | Mean: 65 | Mean: 52 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Ormiston MC, 1983**[**55**](#_ENREF_55) | Compression: unspec compression  AWD used: antibacterial dressings | 27 | 29.6 | Mean: 66 | Mean: 20 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Ormiston, 1985**[**44**](#_ENREF_44) | Compression: crepe then cotton crepe compression bandage (STD)  AWD used: Gentian violet and Polyfax | 30 | 27 | Mean: 70.3  Range: 44 to 92 | Mean: 15.9 months  Median: 6 months  Range: 3 to 96 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 0 Total: 1 |
| **Ormiston, 1985**[**44**](#_ENREF_44) | Compression: crepe then cotton crepe compression bandage (STD)  AWD used: Cadexomer iodine | 30 | 43 | Mean: 67.3  Range: 49 to 86 | Mean: 45.9 months  Median: 8.5 months  Range: 3 to 517 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 1 Total: 1 |
| **Pang, 2010**[**70**](#_ENREF_70) | Compression: 2 layer compression  surgery: sclerotherapy | 83 | 45 | age NR | Median: 8 weeks | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Pessenhofer, 1989**[**41**](#_ENREF_41) | Compression: Unna boot | 25 | 16 | Mean: 65.7 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  Additional procedure; Fibrolan ointment | 1 Total: 7 |
| **Pessenhofer, 1989**[**41**](#_ENREF_41) | Compression: Unna boot  AWD used: foam | 23 | 13 | Mean: 66.7 | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  Additional procedure; Fibrolan ointment | 6 Total: 7 |
| **Rojas, 2009**[**63**](#_ENREF_63) | Compression: Unna boot | 37 | 8 | Mean: 53 | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR | Total: 2 |
| **Rojas, 2009**[**63**](#_ENREF_63) | Compression: Unna boot  surgery: sclerotherapy, ultrasound guided | 33 | 12 | Mean: 58 | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR | Total: 2 |
| **Schulze, 2001**[**36**](#_ENREF_36) | AWD used: Specialty absorp | 54 | 30 | Mean: 73.6  Range: 34 to 95 | Mean: 49.5 months  Range: 0.5 to 744 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 27 Total: 66 |
| **Schulze, 2001**[**36**](#_ENREF_36) | Compression:  AWD used: Alginate + Film | 22 | 45 | Mean: 72.4  Range: 32 to 90 | Mean: 45.6 months  Range: 0.5 to 396 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 12 Total: 66 |
| **Schulze, 2001**[**36**](#_ENREF_36) | AWD used: Alginate + Swabs | 37 | 32 | Mean: 72.7  Range: 28 to 97 | Mean: 35 months  Range: 0.2 to 360 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 27 Total: 66 |
| **Scurr JH, 1993**[**54**](#_ENREF_54) | AWD used: alginate foam | 10 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 0 |
| **Scurr JH, 1993**[**54**](#_ENREF_54) | AWD used: transparent film alginate | 10 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 0 |
| **Scurr JH, 1994**[**53**](#_ENREF_53) | Compression: graduated elastic compression stocking  AWD used: alginate | 20 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 0 |
| **Scurr JH, 1994**[**53**](#_ENREF_53) | Compression: graduated elastic compression stocking  AWD used: hydrocolloid | 20 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 0 |
| **Sigala, 2007**[**78**](#_ENREF_78) | surgery: SEPS | 67 | 33 | Mean: 62  Range: 39 to 78 | Mean: 3.7 years  Range: 0.9 to 7.5 years | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Shaving |  |
| **Smith, 1992**[**50**](#_ENREF_50) | Compression: 2 layer compression linear, graduated (Tubigrip or Venosan 2002)  AWD used: Betadine/Jelonet | 62 | gender NR | Mean: 72 | Median: 3 months  Range: 12 to months | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  Venosan stocking: 77% | 14 Total: 60 |
| **Smith, 1992**[**50**](#_ENREF_50) | Compression: linear, graduated (Tubigrip or Venosan 2002)  AWD used: Betadine/Jelonet | 39 | gender NR | Mean: 73 | Median: 17 months  Range: 68 to months | smoking NR  Diabetes: 0%  systemic disease NR | IMM NR  steroid NR  Venosan stocking: 69% | 19 Total: 60 |
| **Smith, 1992**[**50**](#_ENREF_50) | Compression: linear, graduated (Tubigrip or Venosan 2002)  AWD used: hydrocolloid Biofilm powder+Biofilm dressing | 64 | gender NR | Mean: 74 | Median: 5 months  Range: 20 to months | smoking NR  Diabetes NR  systemic disease NR | IMM NR  steroid NR  Venosan stocking: 70% | 21 Total: 60 |
| **Smith, 1992**[**50**](#_ENREF_50) | Compression: linear, graduated (Tubigrip or Venosan 2002)  AWD used: hydrocolloid Biofilm powder+Biofilm dressing | 35 | gender NR | Mean: 76 | Mean: months  Median: 14 months  Range: 56 to months | smoking NR  Diabetes NR  systemic disease NR | IMM NR  steroid NR  Venosan stocking: 63% | 6 Total: 60 |
| **Sottiurai, 1991**[**67**](#_ENREF_67) | Compression: pump Unna boot elastic stocking or ace wrap  surgery: vein stripping | 33 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Sottiurai, 1991**[**67**](#_ENREF_67) | Compression: pump Unna boot elastic stocking or ace wrap  surgery: vein stripping, valvuloplasty | 21 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Sottiurai, 1991**[**67**](#_ENREF_67) | Compression: pump Unna boot elastic stocking or ace wrap  surgery: vein stripping, transposition | 14 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Sottiurai, 1991**[**67**](#_ENREF_67) | Compression: pump Unna boot elastic stocking or ace wrap  surgery: vein stripping, transplantation | 8 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  additional procedure NR |  |
| **Taradaj, 2011**[**75**](#_ENREF_75) | Compression: pressure of 25-32 mmHg at the ankle  surgery: vein stripping, ligation | 35 | 37 | Mean: 61.43  Range: 43 to 80 | Mean: 33.5 months  Range: 6 to 180 months | 23  diabetes NR  systemic disease NR | NR  steroid NR  micronized flavonoid fraction |  |
| **Teepe, 1993**[**40**](#_ENREF_40) | Compression: short stretch  AWD used: hydrocolloid | 21 | 24 | Mean: 69  Range: 39 to 85 | Mean: 26 months  Range: 3 to 360 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 4 |
| **Teepe, 1993**[**40**](#_ENREF_40) | Compression: short stretch  AWD used: cellular or ECM | 22 | 27 | Mean: 74  Range: 60 to 90 | Range: 3 to 240 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | 5 |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression | 102 | gender NR | Mean: 68 | Median: 17 weeks  Range: to weeks | smoking NR  17  systemic disease NR | NR  steroid NR  concomitant superficial vein surgery |  |
| **van Gent, 2006**[**65**](#_ENREF_65) | Compression: 2 layer compression  surgery: SEPS | 94 | gender NR | Mean: 64 | Median: 17 weeks  Range: to weeks | smoking NR  7  systemic disease NR | NR  steroid NR  concomitant superficial vein surgery |  |
| **Vanscheidt, 2007**[**26**](#_ENREF_26) | Compression: short stretch  AWD used: contact layer | 109 | 41.3 | Range: 33 to 88 | Range: 3 to >12 months | Smoker 21.1%  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Vanscheidt, 2007**[**26**](#_ENREF_26) | Compression: short stretch  AWD used: contact layer cellular or ECM | 116 | 32.8 | Range: 29 to 89 | Range: 3 to >12 months | Smoker: 17.2%  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Vowden, 2006**[**30**](#_ENREF_30) | Compression: high-compression  AWD used: amelogenin proteins (Xelmat) | 62 | 32.3 | Mean: 72  Median: 73.5  Range: 48 to 89 | Mean: 32.4 months  Median: 12 months  Range: 6 to 360 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Vowden, 2006**[**30**](#_ENREF_30) | Compression: high-compression  AWD used: alginate | 61 | 36.1 | Mean: 70.9  Median: 73  Range: 44 to 90 | Mean: 41.9 months  Median: 24 months  Range: 6 to 360 months | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR |  |
| **Vowden, 2007**[**25**](#_ENREF_25) | Compression: high | 41 | 37 | Mean: 72.7  Median: 75.5  Range: 33.5 to 93.4 | Mean: 32.4 months  Median: 24 months  Range: 6 to 120 months | smoking NR  Diabetes: 10%  systemic disease NR | IMM NR  Steroids NR  additional procedure NR | 15 Total: 24 |
| **Vowden, 2007**[**25**](#_ENREF_25) | Compression: high  AWD used: acellular or ECM | 42 | 41 | Mean: 68.5  Median: 71  Range: 25.6 to 91.2 | Mean: 55.3 months  Median: 30 months  Range: 6 to 240 months | smoking NR  Diabetes: 10%  systemic disease NR | IMM NR  Steroids NR  additional procedure NR | 9 Total: 24 |
| **Weiss RA, 1996**[**52**](#_ENREF_52) | Compression: Jobst UlcerCare stocking  AWD used: foam slightly adhesive hydroactive foam dressing (Cutinova foam) | 10 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 3 |
| **Weiss RA, 1996**[**52**](#_ENREF_52) | Compression: Jobst UlcerCare stocking  AWD used: foam non-adhesive absorptive foam dressing (Allevyn) | 8 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | IMM NR  steroid NR  additional procedure NR | Total: 3 |
| **Wolters, 1997**[**79**](#_ENREF_79) | Compression: unspec compression  surgery: SEPS | 74 | 42 | Mean: 55.7  Range: 28 to 82 | Mean: 8 months  Range: 6 to 13 months | smoking NR  18  kidney insufficiency | NR  steroid NR  additional procedure NR |  |
| **Zamboni, 2003**[**61**](#_ENREF_61) | Compression: 20-30mmHg  AWD used: foam | 24 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure; Foam dressing and Zinc Oxide dressing & Antibiotics | 0 Total: 0 |
| **Zamboni, 2003**[**61**](#_ENREF_61) | Compression: 20-30mmHg pressure  surgery: vein stripping | 21 | gender NR | age NR | duration NR | smoking NR  diabetes NR  systemic disease NR | NR  steroid NR  Additional procedure; Foam dressing and Zinc Oxide dressing & Antibiotics | 0 Total: 0 |

Abbreviations**:** absorp = absorption; AWD = advanced wound dressing; ECM = extracellular matrix; GSV = great saphenous vein; IMM = immunosuppressant; impreg = impregnated; mm Hg = millimeters of mercury; MTC= M. tenuiflora cortex; NR = not reported; RFA = radio frequency ablation; SEPS = subfascial endoscopic perforator surgery; SSV = short saphenous vein; unspec = unspecified