

| Supplementary Table 3. Summary of peer-reviewed clinical evidence for DACC-coated dressing |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Study                                                                                      | Study design                                                                                                            | Aetiology                                                                                     | Patients                                     | Outcome measures / clinical challenge                                                                                           | Main findings                                                                                                                                                                                              |
| Diabetic foot ulcers (n=10)                                                                |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Nielsen and Andriessen (2012)                                                              | Comparative, RCT: DACC-coated dressing vs. PHMB-containing biocellulose                                                 | Amputation related to DFU                                                                     | n=30 (DACC) vs. n=30 (PHMB)                  | Pain levels, dressing adherence                                                                                                 | Pain levels and adherence greater in DACC-coated dressing group                                                                                                                                            |
| Sebayang and Burhan (2024)                                                                 | Single-blind, fold-over, RCT: cadexomer iodine 0.9% vs. Cutimed Sorbact                                                 | DFU                                                                                           | n=162                                        | Wound assessment                                                                                                                | Significant reduction in wound size scores for Sorbact at 60 and 90 days                                                                                                                                   |
| Armi et al (2023)                                                                          | Comparative, quasi-experimental study: DACC-coated dressing vs. PHMB-containing dressing                                | DFUs                                                                                          | n=129                                        | Wound healing                                                                                                                   | Wounds treated with DACC-coated dressing healed faster                                                                                                                                                     |
| Mañas et al (2025)                                                                         | Prospective, observational study: DACC                                                                                  | DFUs                                                                                          | n=61                                         | Bacterial load, presence of biofilm                                                                                             | Number of patients requiring antibiotics reduced, level of biofilm reduced                                                                                                                                 |
| Malone et al (2023)                                                                        | Non-comparative, proof-of-concept study: DACC or DACC gel                                                               | DFUs                                                                                          | n=20                                         | Reduced bacterial load with removal of DACC-coated dressing                                                                     | Mean total microbial load of DFUs did not change after 2 weeks of therapy. Biofilms adhere to DACC-coated dressings                                                                                        |
| Haycocks and Chadwick (2011)                                                               | Case series: DACC                                                                                                       | DFUs                                                                                          | n=29                                         | Signs of infection                                                                                                              | All ulcers showed reduced signs of infection when treated with DACC-coated dressing, some wounds healed                                                                                                    |
| Skinner and Hampton (2010)                                                                 | Case series: DACC                                                                                                       | DFUs                                                                                          | n=4                                          | Wound assessment                                                                                                                | All cases showed improvements and some healed completely                                                                                                                                                   |
| Malone et al (2024)                                                                        | Case series: DACC                                                                                                       | DFUs                                                                                          | n=3                                          | Assessment of dressing fouling after use                                                                                        | Microorganisms bound to fouling material and not directly to dressing material                                                                                                                             |
| Haycocks et al (2011)                                                                      | Case reports: DACC                                                                                                      | Hard to heal DFUs                                                                             | n=2                                          | Reduction in infection and prevention of reinfection                                                                            | Reinfection did not occur, and complete healing took place                                                                                                                                                 |
| Cardilicchia and Todaro (2024)                                                             | Case report: DACC                                                                                                       | DFUs                                                                                          | n=1                                          | Wound assessment, pain, infection                                                                                               | DACC dressing reduced all parameters and wound healed in 10 days                                                                                                                                           |
| Venous leg ulcers (n=3)                                                                    |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Magdi et al (2017)                                                                         | Quasi-experimental: DACC (Cutimed Sorbact)                                                                              | Pressure ulcers                                                                               | n=76                                         | Wound assessment (PUSH)                                                                                                         | Improvement in wound healing                                                                                                                                                                               |
| Mussi and Salvioli (2004)                                                                  | Comparative study: DACC-coated dressing vs. control treatment                                                           | Pressure ulcers                                                                               | n=33                                         | Wound assessment                                                                                                                | DACC-coated dressing use improved wound bed appearance, increased debridement, reduced number of days treatment                                                                                            |
| Ciliberti et al (2016)                                                                     | Observational study: DACC used as contact layer in NPWT                                                                 | Pressure ulcers                                                                               | n=50                                         | Changes in bacterial load                                                                                                       | When used as a contact layer as part of NPWT, use of DACC-coated dressing associated with a reduction in wound infection                                                                                   |
| Surgical wounds (n=15)                                                                     |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Bua et al (2017)                                                                           | Prospective, comparative, RCT: standard dressing vs. DACC                                                               | Non-implant surgery                                                                           | n=100                                        | SSI                                                                                                                             | Significantly less patients had SSIs at days 5-7 in DACC group                                                                                                                                             |
| Magro (2023)                                                                               | Retrospective and prospective audit: Leukomed Sorbact                                                                   | Post-caesarean section wounds                                                                 | n=2436 (retrospective), n=2368 (prospective) | SSI rate, SSI readmission rate, antibiotic use, costs                                                                           | SSI rate reduced by 38% (6.1% to 3.8%) with introduction of Leukomed Sorbact, SSI readmission rate reduced by 31% (1.27% to 0.88%), cost reductions                                                        |
| Stanirowski et al (2016a)                                                                  | Comparative RCT (pilot study): standard dressing vs. DACC-coated dressing                                               | Caesarean section wound                                                                       | n=81 (standard), n=81 (DACC)                 | SSI                                                                                                                             | SSI significantly lower in DACC-coated group                                                                                                                                                               |
| Stanirowski et al (2016b)                                                                  | Comparative RCT: standard dressing vs. DACC-coated dressing                                                             | Caesarean section wound                                                                       | n=271 (standard), n=272 (DACC)               | SSI                                                                                                                             | SSI significantly lower in DACC-coated group                                                                                                                                                               |
| Totty et al (2019)                                                                         | Comparative RCT: standard dressing vs. DACC-coated dressing                                                             | Caesarean section wound                                                                       | n=70 (standard), n=74 (DACC)                 | SSI                                                                                                                             | SSIs lower in DACC-coated group but not statistically significant                                                                                                                                          |
| Stanirowski et al (2019)                                                                   | RCT: bacterial-binding dressing (DACC) vs. standard surgical dressing                                                   | Post-caesarean section wounds                                                                 | n=543                                        | SSI rate, resource use                                                                                                          | Patients with DACC-coated dressing had fewer outpatient visits and fewer hospital bed-days. Cost savings were recorded                                                                                     |
| Romain et al (2020)                                                                        | Comparative, randomised consecutive study: DACC-coated dressing vs. alginate dressing                                   | Pilonidal sinus surgery                                                                       | n=246                                        | Wound healing                                                                                                                   | Number of wounds healed at 75 days significantly higher in DACC-coated dressing group                                                                                                                      |
| Mulpur et al (2024)                                                                        | Prospective observational study: DACC dressing                                                                          | Various surgical wounds                                                                       | n=106                                        | SSI, pain, dressing adhesion (remaining in situ), patient satisfaction                                                          | SSI rate of 1.9%, good dressing retention, pain experienced at dressing changes improved compared with other dressings, excellent satisfaction                                                             |
| Mahyudin et al (2020)                                                                      | Comparative, observational study: DACC-coated dressing vs. gauze/tulle dressing                                         | Orthopaedic and traumatology surgery wounds                                                   | n=25                                         | Wound healing (BWAT) score; Patient comfort (frequency of wound care, pain VAS); cost-effectiveness (indirect and direct costs) | Slight improvement in wound healing (reduced BWAT score) and better patient comfort in favour of DACC-coated dressing. No difference in cost-effectiveness                                                 |
| Taylor et al (2020)                                                                        | Audit study: DACC dressings                                                                                             | Caesarean section wounds                                                                      | N/A*                                         | SSI rate                                                                                                                        | Use of evidence-based evidence and guidelines, education, and introduction of DACC-coated dressings reduced SSI rates                                                                                      |
| Bullough et al (2012)                                                                      | Case series: DACC dressings                                                                                             | Abdominal wounds                                                                              | n=4                                          | SSI, wound size                                                                                                                 | Infections resolved within 2 weeks, reduction in wound size                                                                                                                                                |
| Nicolosi and Parente (2023)                                                                | Case series: DACC dressings                                                                                             | Infected post-surgical wounds                                                                 | n=3                                          | Wound assessment                                                                                                                | Resolution of infection, optimal healing, resolution of dehiscence                                                                                                                                         |
| Corazza et al (2018)                                                                       | Case report: DACC                                                                                                       | Foot surgical wound                                                                           | n=1                                          | Wound and skin assessment                                                                                                       | Diagnosis of contact dermatitis due to dialkylcarbamoyl compounds of DACC                                                                                                                                  |
| Navarro-Triviño et al (2022)                                                               | Case report(s): DACC                                                                                                    |                                                                                               | n=??                                         | Skin assessment                                                                                                                 | Diagnosis of contact dermatitis with treatment using Intrasite and Sorbact                                                                                                                                 |
| Pickles et al (2022)                                                                       | Comparative study: DACC and Aquacel Ag Surgical, Leukomed Control, Mepilex Border, Mepore, Opsite Post-Op, Tegaderm+Pad | Orthopaedic surgical                                                                          | n=307                                        | Ease of application; exudate management; SSI                                                                                    | 90% of healthcare professionals were satisfied, very or extremely satisfied with ease of application; highest amount of wet exudate of dressings assessed                                                  |
| Traumatic wounds (n=1)                                                                     |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Avkan-Oğuz et al (2020)                                                                    | Case series: DACC                                                                                                       | Traumatic leg wound                                                                           | n=1                                          | Wound infected with <i>Aspergillus flavus</i> ; leg wound with exposed bone; tissue necrosis                                    | Systemic antifungal initiated DACC-coated dressing applied daily. No fungal growth observed in third week of systemic antifungal therapy and dressing application. Wound improvement led to skin grafting. |
| Multiple wound types (n=16)                                                                |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Ciprandi et al (2022)                                                                      | Non-comparative, retrospective assessment: DACC dressings                                                               | Varied acute and chronic paediatric wounds                                                    | n=1232                                       | Signs of infection; wound healing; SSI prevention                                                                               | Use of DACC-coated dressing prevented SSIs, reduced signs of infection, and promoted wound progression                                                                                                     |
| Mosti et al (2015)                                                                         | Comparative RCT: Aquacel vs. DACC-coated dressing                                                                       | Infected leg ulcers                                                                           | n=20 (Aquacel), n=20 (DACC)                  | Bacterial load                                                                                                                  | 73% reduction of bioburden seen in DACC-coated dressings (vs. 41%)                                                                                                                                         |
| Dissemond et al (2023)                                                                     | Chart audit review, comparative: Aquacel Ag+ vs. DACC-coated dressing                                                   | Varied acute and chronic wounds                                                               | n=159                                        | Outcomes included: wound parameters, healing, need for surgery                                                                  | Findings in Germany were comparable between Aquacel Ag+ and Sorbact with regards to wound description, management and treatment outcomes, including percent area reduction and wound closure               |
| Seckam et al (2021)                                                                        | Observational study: DACC dressing (Cutimed Siltec Sorbact)                                                             | VLUs and DFUs                                                                                 | n=62                                         | Infection management, QoL, fluid retention, ease of use                                                                         | Good fluid management, reduction in skin maceration. A 9% reduction in number of infected wounds                                                                                                           |
| Von Hallern et al (2004)                                                                   | Pilot study: DACC                                                                                                       | Varied infected or secondary healing wounds                                                   | n=36                                         | Signs of infection                                                                                                              | Signs of infection reduced, marked improvement of wound condition, wound progression                                                                                                                       |
| Von Hallern and Lang (2005)                                                                | Observational study: DACC                                                                                               | Varied infected wounds                                                                        | n=418                                        | Microbial count                                                                                                                 | Microbial elimination supporting reduction in clinical signs of infection                                                                                                                                  |
| Stephen-Haynes et al (2010)                                                                | Case series: DACC dressing                                                                                              | Leg ulcers, pressure ulcers, other wounds                                                     | n=14                                         | Wound assessment, debridement                                                                                                   | Assisted in debridement in 5 cases                                                                                                                                                                         |
| Sibbald et al (2012)                                                                       | Case series: DACC dressing                                                                                              | Leg ulcers, DFUs                                                                              | n=14                                         | Infection, wound area                                                                                                           | Treatment with DACC-coated dressing reduced wound area, no change infection rate                                                                                                                           |
| Bruce (2012)                                                                               | Prospective case series: DACC dressing                                                                                  | Acute or chronic wounds, all infected                                                         | n=13                                         | Clinical signs of infection, wound size                                                                                         | Signs of infection eliminated in all but 2 patients, size reduction seen in 79% of cases                                                                                                                   |
| Bateman (2015)                                                                             | Case series: DACC dressing                                                                                              | Various (surgical, DFU, burn, VLU, trauma) heavily exuding, infected wounds treated with NPWT | n=10                                         | Exudate reduction, wound depth, reduction in infection                                                                          | Positive outcomes on adherence, atraumatic application and removal, reduced bacterial load and exudate levels                                                                                              |
| Powell (2009)                                                                              | Case series: DACC dressing                                                                                              | Ulcers and post-operative wounds                                                              | n=6                                          | Wound assessment                                                                                                                | All cases showed improvement with some healing completely                                                                                                                                                  |
| Jeffery (2014)                                                                             | Case series using DACC with NPWT                                                                                        | Surgical wounds, sinus wound, burn wounds                                                     | n=7                                          | Wound assessment                                                                                                                | No clinical signs of infection, mechanical performance good, healing outcomes good                                                                                                                         |
| Hardy (2010)                                                                               | Case series: DACC dressing                                                                                              | Chronic oedema with leg ulcer, oedema with varicose eczema, chronic wound lymphoedema         | n=3                                          | Patient assessment, wound assessment (where appropriate), pain, QoL                                                             | All cases showed clinical improvement, improved quality of life                                                                                                                                            |
| Boyar (2016)                                                                               | Case series: DACC dressing                                                                                              | Delayed healing occipital pressure injury, pressure injury, dehisced surgical wound           | n=3                                          | Wound assessment, wound infection, wound closure                                                                                | Complete closure achieved within 2-4 weeks                                                                                                                                                                 |
| Pirie et al (2009)                                                                         | Case series: DACC dressing                                                                                              | Varied infected wounds                                                                        | n=3                                          | Wound healing, signs of infection                                                                                               | All cases showed clinical improvement                                                                                                                                                                      |
| Iwao et al (2023)                                                                          | Pilot study: DACC dressing                                                                                              | Varied infected or critically colonised wounds                                                | n=15                                         | Odour assessment                                                                                                                | Use of DACC-coated dressings reduced wound odour, no difference in bacterial load                                                                                                                          |
| Burn wounds (n=8)                                                                          |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Holm et al (2024)                                                                          | Prospective observational study: DACC dressing                                                                          | Minor burn wounds                                                                             | n=52                                         | Graft take                                                                                                                      | Median days to grafting 35 days. Sorbact use prior to grafting aids successful outcomes                                                                                                                    |
| Kleintjies et al (2018)                                                                    | Prospective study: DACC dressing                                                                                        | Burn wounds                                                                                   | n=27                                         | Wound assessment                                                                                                                | A majority of wounds treated with DACC-coated dressing appeared clean, 27% appeared healed                                                                                                                 |
| Allorto (2024)                                                                             | Prospective audit: DACC dressing                                                                                        | Partial thickness burn wounds; donor sites                                                    | n=27                                         | Wound assessment; tissue trauma; wear time                                                                                      | Mean wear time to healing of 14 days (max. 22 days)                                                                                                                                                        |
| Kleintjies et al (2017)                                                                    | Prospective pilot study: DACC dressing                                                                                  | Burn wounds                                                                                   | n=13                                         | Bacterial load, wound assessment                                                                                                | Wounds with DACC-coated dressing assessed as cleaner and had less bacterial growth compared with control dressings                                                                                         |
| Kusu-Orkar et al (2019)                                                                    | Case series: DACC dressing                                                                                              | Burn wounds                                                                                   | n=10                                         | Re-epithelialisation, adverse healing events                                                                                    | Healing seen in wounds treated with DACC-coated dressing                                                                                                                                                   |
| Derbyshire (2010a)                                                                         | Case studies: DACC dressing                                                                                             | Non-healing wounds                                                                            | n=3                                          | Wound bed assessment, QoL, cost                                                                                                 | Use of Sorbact improved all parameters                                                                                                                                                                     |
| Derbyshire (2010b)                                                                         | Case studies (follow-up to previous study): DACC dressing                                                               | Non-healing wounds                                                                            | n=3                                          | Wound bed assessment, QoL, cost                                                                                                 | Use of Sorbact improved all parameters                                                                                                                                                                     |
| Kleintjies and Prinsloo (2024)                                                             | Case report: DACC dressing                                                                                              | Various (deep, partial, full-thickness) burn wounds                                           | n=1                                          | Graft take using Sorbact-CEA method                                                                                             | Good graft take (short term), near-normal tissue appearance (long term)                                                                                                                                    |
| Miscellaneous wounds (n=11)                                                                |                                                                                                                         |                                                                                               |                                              |                                                                                                                                 |                                                                                                                                                                                                            |
| Meberg and Schøyen (1990)                                                                  | RCT: cleansing with CHX vs. DACC-coated dressing                                                                        | Umbilical cord cleansing                                                                      | n=1,228 (CHX), n=1,213 (DACC)                | Incidence of infection at 6 weeks                                                                                               | No difference in incidence of infection (16.3% [DACC] vs. 14.6% [CHX])                                                                                                                                     |
| McBride et al (2018)                                                                       | Parallel, three-arm prospective RCT: Algisite™ M, Cuticerin™, and Sorbact®                                              | Split-thickness skin grafts                                                                   | n=101                                        | Time to re-epithelialisation, pain, itching, scarring, cost                                                                     | No difference between dressings                                                                                                                                                                            |
| Lee et al (2018)                                                                           | Retrospective, comparative study: conventional foam vs. DACC-coated dressing combined with CHX                          | Skin grafts                                                                                   | n=60                                         | Healing times, infection rate                                                                                                   | Time to wound healing significantly shorter in DACC-coated dressing group. Infection rates significantly shorter in thin skin grafts                                                                       |
| Kammerlander et al (2008)                                                                  | Prospective study: DACC dressing                                                                                        | Non-healing wounds                                                                            | n=116                                        | Wound assessment, infection                                                                                                     | 72% of wounds improved, 21% healed, improvement in pain levels                                                                                                                                             |
| Lamberti et al (2023)                                                                      | Prospective study: DACC dressing                                                                                        | Central venous catheter exit site wounds                                                      | n=88                                         | Bacterial load, skin tolerance, risk of infection                                                                               | No cases of infection. DACC-coated dressing may play a role in infection prevention                                                                                                                        |
| Hampton (2007)                                                                             | Prospective study: DACC dressing                                                                                        | Non-healing wounds                                                                            | n=21                                         | Wound assessment                                                                                                                | At 4 weeks, 6 wounds healed, and 14 wounds improved. Reduction in malodour in all wounds                                                                                                                   |
| Johansson et al (2009)                                                                     | Case series: DACC dressing                                                                                              | Diabetic patients with inter-digital fungal infections                                        | n=20                                         | Lesion size, resolution of infection                                                                                            | Positive healing in majority of cases, variety of changes in microbiology                                                                                                                                  |
| Choi et al (2015)                                                                          | Prospective, non-comparative study: DACC dressing                                                                       | Skin grafts                                                                                   | n=7                                          | Assessment of infection                                                                                                         | No wound infection detected                                                                                                                                                                                |
| Dwiyananda et al (2019)                                                                    | Comparative study: DACC-coated dressing vs. saline dressing + mupirocin                                                 | Infected epidermolysis bullosa wounds                                                         | n=5                                          | Wound area, clinical improvement                                                                                                | DACC-coated dressing as effective as saline dressings + mupirocin at eliminating bacterial infection, promoted faster healing                                                                              |
| Johansson et al (2009)                                                                     | Case series: DACC dressing                                                                                              | Diabetic patients with inter-digital fungal infections                                        | n=20                                         | Lesion size, resolution of infection                                                                                            | Positive healing in majority of cases, variety of changes in microbiology                                                                                                                                  |
| Choi et al (2015)                                                                          | Prospective, non-comparative study: DACC dressing                                                                       | Skin grafts                                                                                   | n=7                                          | Assessment of infection                                                                                                         | No wound infection detected                                                                                                                                                                                |
| Dwiyananda et al (2019)                                                                    | Comparative study: DACC-coated dressing vs. saline dressing + mupirocin                                                 | Infected epidermolysis bullosa wounds                                                         | n=5                                          | Wound area, clinical improvement                                                                                                | DACC-coated dressing as effective as saline dressings + mupirocin at eliminating bacterial infection, promoted faster healing                                                                              |