



Clinical Bibliography



EUROPE:
1st Floor, 87 Ridgway
Wimbledon, London, SW19 4ST
Tel: +44 (0) 2089 479 804 Fax: +44 (0) 20 3621 9114
Email: cs.eu@avitamedical.com

ASIA-PACIFIC:
Suite G.01, 68 South Terrace,
South Perth WA 6151 AUSTRALIA
Tel: +61 (0) 8 9474 7738 Fax: +61 (0) 8 9474 7742
Email: cs.ap@avitamedical.com

AMERICAS:
9221 Corbin Ave Suite 220,
Northridge, CA 91324
Tel: 1 818 356 9400 Fax: 1 818 356 9416
Email: cs.am@avitamedical.com

www.avitamedical.com



CB.EN.13

©Avita Medical 2015

Clinical Bibliography

Contents

Studies in burns and trauma	4
Studies in chronic wounds and ulcers	10
Studies in plastics and aesthetics	10
In-vitro and preclinical studies	12
Related Articles	14
General Review Articles and Expert Opinion	14
Rare Diseases/Disorders	14

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
Studies in burns and trauma					
Aust M, Vorhold J, Aziz H, Busch K-H	Combination of needling with ReCell® for repigmentation-area burn scars – a promising approach?		Presented at the 43rd German Society of Plastic, Reconstructive and Aesthetic Surgeons and 17th Association of German Aesthetic Plastic Surgeons joint meetings, 13–15 September 2012, Bremen, Germany	Case series (n=3) [ReCell study]	hypopigmentation, burn scar, repigmentation, medical needling
Busch KH, Bender R, Altintas MA, Pech T, Rohn T, Walezko N, Aust, MC,	Combination of Medical Needling and non-cultured autologous skin cell transplantation (ReNovaCell™) for repigmentation of hypopigmented Burn Scars		Burns. 2016 May 2 [Epub ahead of print]	Case series (n=20)	scar revision, medical needling, repigmentation
Campanella S, Rapley P, Ramelet A-S	A randomised controlled pilot study comparing Mepitel® and Surfsoft® on paediatric donor sites treated with ReCell®		Burns 2011;37(8):1334-42	2-cohort pilot RCT (n=15; Mepitel®+ ReCell® vs Surfsoft®+ ReCell®) [ReCell best-practice]	donor site treatment, primary dressing
De Angelis B, Lucarini L, Montone A, Cervilli V	ReCell®: A new in device for skin autologous implants in the treatment of burns and scars		Presented at the European Burns Association Congress, 2–5 September 2009, Lausanne, Switzerland Burns 2009;35: S36	Case series (n=50) [ReCell study]	acute burn, burn scar
Dunne J, Rawlins J	A comparison of ReCell® and split-thickness skin grafts in management of paediatric burns		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 718	Comparative study (n=21; ReCell® vs STSG) [ReCell study]	acute burn, paediatric
Dunne J, Rawlins J	Early paediatric scald surgery – developing a (cost effective) dermal preserving surgical protocol for all childhood scalds		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 716	Retrospective analysis (n=40; Biobrane vs Biobrane + ReCell® vs STSG) [ReCell study]	health economics, paediatric, acute burn, scald
Dunne J, Rawlins J	How we do it. Early dermal salvage with biobrane and ReCell® in the management of deep dermal burn wounds		Presented at the 15th European Burns Association congress, 28–31 August 2013, Vienna, Austria	Case series (n=21) [ReCell study]	early intervention, dermal preservation, acute burn, deep partial-thickness
Dunne J, Rawlins J	Early paediatric scald surgery – A cost effective dermal preserving surgical protocol for all childhood scalds		Burns 2014;40(4):772-78	Retrospective analysis (n=40, Biobrane vs Biobrane + ReCell® vs STSG) [ReCell study]	early intervention, dermal preservation, acute burn, scald, paediatric, deep partial-thickness
Dunne J, Rawlins J	A Systemic review of the management of acute burn injuries with ReCell®		Presented at the British Burns Association Annual Meeting, 7–9 April 2014, Chelmsford, UK	Systemic review of nine studies (n = 102) [Review]	acute burn
Dunne J, Saleh D, Wilks D, Rawlins J	Burns surgery - a platform for innovation in general reconstruction		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 78	Case series (n=2; 1 ReCell case, 1 flap case) [Review]	plastic surgery, maxillofacial
Echlin K, Way B, Jones I	Autologous non-cultured epidermal cell suspension to improve healing in deeper partial thickness facial burns		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 709	Case series (n=5) [ReCell study]	acute burn, face, deep partial-thickness, pigmentation

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
Echlin K, Way B, Jones I	Autologous non-cultured epidermal cell suspension to accelerate healing of split thickness donor sites		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 713	Within subject comparative study (n=9; with and without autologous cell suspension) [ReCell study]	donor site treatment
Gravante G, Di Fede M, Araco A, Grimaldi M, De Angelis B, Arpino A, Cervelli V, Montone A	A randomized trial comparing ReCell® system of epidermal cells delivery versus classic skin grafts for the treatment of deep partial thickness burns		Burns 2007;33(8):966-72	2-cohort RCT (n=82; ReCell® vs STSG) [ReCell study]	acute burn, deep partial-thickness
D Hammer, D. Rendon,, JL. B Martin, B. Fleming, M. Valerio, I.	Restorative Spray skin Technology and Reduction of skin graft donor sites burden: A comparative Pilot study		TERMIS 2015	Case studies (n=4). Comparative pilot to use dermal substitute with RES and STSG vs dermal substitute and STSG alone	matrices, donor site, mesh ratio
Hiller M, Limbourg A, Branski L, Vogt P, Jokuszies A	Improving aesthetic outcome – therapy for facial burns with ReCell®		Presented at the 15th European Burns Association congress, 28–31 August 2013, Vienna, Austria	Case series (n=5)	acute burn, face
Johnstone P, Kwei JS, Filobos G, Lewis D, Jeffery S.	Successful application of keratinocyte suspension using autologous fibrin spray		Burns. 2016 Jun 23 [Epub ahead of publication]	Case study	fibrin, suspension, acute burn, back
Kapil Sen S, Ives M, Philp B, Dziewulski P, Herndon D, Wood F	Use of split thickness dermal grafts in combination with sprayed keratinocytes in burns		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 693	Case series (n=5) [ReCell study]	acute burn
Lim J, Liew S, Chan H, Jackson T, Burrows S, Edgar D, Wood F	Is the length of time in acute burn surgery associated with poorer outcomes?		Burns 2014;40(2):235-40	Retrospective analysis (n=753)	acute burn, autologous suspension with meshed autograft, health economics
Murray A, Le Cocq H, Webster P, Rawlins J	Early intervention and autologous cell-based therapy - are they cost effective?		Presented at the Australian and New Zealand Burns Association Annual meeting, 15–18 October 2013, Hobart, Australia	Health economic model (n=22)	acute burn, health economics, early intervention
Murray A, Webster P, Coughlan J, Le Cocq H, Belsey J, Rawlins J	A predictive model for cost estimation in early burns surgery		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 437	Health economic model (n=22)	acute burn, health economics, early intervention
O'Neill T, Rawlins J, Rea S, Wood F	Complex chemical burns following a mass casualty chemical plant incident: how optimal planning and organisation can make a difference		Burns 2012;38(5):713-8	Case series (n=4) [Example of use of ReCell®in emergency plans]	chemical burn, full-thickness, dermal substitute, autologous suspension with meshed autograft
Palombo M, Bruno A, delli Santi G, Anniboletti T, Moroni S, Palombo P	Our experience with ReCell® - a panel of cases		Presented at the International Society for Burn Injuries congress, 9–13 September 2012, Edinburgh, UK. Paper no 766	Case series (n=6) [ReCell study]	acute burn, scar revision
Park J, Heggie K, Edgar D, Bulsara M, Wood F	Does the type of skin replacement surgery influence the rate of infection in acute burn injured patients?		Burns 2013;39(7):1386-90	Retrospective analysis (n=770; STSG vs ReCell®, STSG + ReCell® vs STSG + CellSpray®) [ReCell study]	acute burn, autologous suspension with meshed autograft

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
Rawlins J, Signy J, Rea S, Wood F	Dermabrasion, ReCell® and biobrane versus Split Thickness Skin Grafting for deep flame burns - a comparative pilot study		Presented at the 14th European Burns Association congress, 14–17 September 2011, The Hague, Netherlands	Comparative pilot study (n=15; Biobrane® + ReCell® vs STSG) [ReCell study]	acute burn
Rawlins J, Signy J, Rea S, Wood F	Biobrane with ReCell® for the treatment of deep dermal burns to the legs - a comparative pilot study		Presented at the 43rd American Burn Association annual meeting, 29 March–1 April 2011, Chicago, IL, USA. Paper no 248 Burn Care & Research 2011;32(2):S51-180	Comparative pilot study (n=14; Biobrane® + ReCell® vs STSG + ReCell®) [ReCell study]	acute burn, deep partial-thickness
Rennekampff H, Herold C, Vogt M	Keratinocyte suspension for the treatment of facial burns		Presented at the International Society for Burn Injuries congress	Case series (n=5) [ReCell study]	acute burn, face
Wood F	ReCell®		Color Atlas of Burn Reconstructive Surgery, Chapter 6, 26-37	Case series (n=4) [ReCell study]	acute burn, paediatric, scar revision
Sood R, Roggy DE, Zieger MJ, Nazim M1, Hartman BC, Gibbs JT	A comparative study of spray keratinocytes and autologous meshed split-thickness skin graft in the treatment of acute burn injuries		Wounds. 2015 Feb;27(2):31-40	Within patient comparative study (n=10, meshed split thickness skin graft versus autologous skin cell suspension)	partial-thickness burn, STSG, mesh
Wood F, Martin L, Lewis D, Rawlins J, McWilliams T, Burrows S, Rea S	A prospective randomised clinical pilot study to compare the effectiveness of Biobrane® synthetic wound dressing, with or without autologous cell suspension, to the local standard treatment regimen in paediatric scald injuries		Burns 2012;38(6):830-9	3-cohort pilot RCT (n=13; standard care vs Biobrane® vs Biobrane® + ReCell®) [ReCell study]	acute burn, scald, paediatric
Zajicek R, Pafcuga I, Suca H, Konigova R, Broz L, Matouskova E	Healing of widely meshed autografts using freshly isolated autologous epidermal cells and acellular Xe-Derma xenodermis		Hojeni ran 2012;6(2):12-8	Within-subject comparative study (n=14; wide-mesh graft + ReCell®, dressed with XeDerma vs wide-mesh graft [no ReCell®] dressed with XeDerma vs wide-mesh dressed conventionally) [ReCell study]	acute burn, full-thickness, autologous suspension with meshed autograft
Zajicek R, Kubok R, Matouskova E, Broz L	Using the combination of autologous cell suspension (ReCell®) and acellular pig dermis (Xe-derma) in the treatment of a paediatric patient with 90% full thickness skin loss		Presented at the ECPB Workshop, 15–18 October 2013, Munich, Germany	Case report with ReCell®	acute burn, full-thickness, autologous suspension with meshed autograft
Studies in burns and trauma Mention or other relevance					
Anderson J, Fear M, Phillips J, Dawson LF, Wallace H, Wood F, Rea S	A preliminary investigation of the reinnervation and return of sensory function in burn patients treated with INTEGRA®		Burns 2011;37(7):1101-8	Comparative study (n=5; ReCell®+STSG vs Integra®+ ReCell®+STSG) [Example of use of ReCell® with dermal templates]	acute burn, full-thickness, autologous suspension with meshed autograft
Dunne J, Murray A, Rawlins J	A survey of skin substitute use in the UK and Australasia		Presented at the British Burns Association Annual Meeting, 7–9 April 2014, Chelmsford, UK	Survey of 25 regional burns units in UK/ Australasia [Review]	

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
O'Neill T, Rawlins J, Rea S, Wood F	Methamphetamine laboratory-related burns in Western Australia - Why the explosion?		Burns 2011;37(6):1044-8	Retrospective case series (n=9) [ReCell study]	
Rawlins J	Early surgery for ALL paediatric scalds – developing a dermal preserving surgical protocol for the benefit of patients and health care providers		Presented at the American Burn Association 43rd Annual Meeting, March 29–April 1, 2011, Chicago, Illinois, USA Burn Care & Research 2011;32(2):S51-180	Case series [ReCell best-practice and cost effectiveness]	
Stoner M, Wood F	Cultured epithelial autograft "take" confirmed by the presence of Cytokeratin 9		Journal of Investigative Dermatology 1999;112(3):391-2	Preclinical study	acute burn, glabrous, cultured suspension

Studies in chronic wounds and ulcers

Chant H, Woodrow T, Manley J	Autologous skin cells: a new technique for skin regeneration in diabetic and vascular ulcers		Journal of Wound Care 2013;22(10 Suppl):S10-5	Case series (n=4) [ReCell study]	stump closure, vasculitic ulcer
De Angelis B, Migner A, Lucarini L, Agovino A, Cervelli V	The use of a non cultured autologous cell suspension to repair chronic ulcers		International Wound Journal 2013;doi: 10.1111/iwj.12047 [Epub]	Uncontrolled study (multiple case series) (n=20) [ReCell study]	chronic wound, venous, diabetic, traumatic, arterial ulcers
Giraldi E, Ricci E, Spreafico G, Baccaglini U	Preliminary results with the use of a non-cultured autologous cell suspension to repair non-healing vascular leg ulcers		Acta Vulnologica 2012;10(3):153-63	Case series (n=7) [ReCell study]	chronic wound, venous leg ulcer
Hu ZC, Chen D, Guo D, Liang YY, Zhang J, Zhu JY, Tang B.	Randomized clinical trial of autologous skin cell suspension combined with skin grafting for chronic wounds		British Journal of Surgery 2015 Jan;102(2):e117-23.	Prospective RCT (n=88)	chronic wound, STSG
Jackson PC, Wilks D, Rawlins J, Matteucci PL	Combined use of hyperbaric oxygen and sprayed keratinocyte suspension to tackle a difficult wound		Annals of The Royal College of Surgeons of England	Case report	chronic wound, hyperbaric
Trapasso M, Spagnolo F, Marchi F, Strada P, Santi P, Scala M	Regenerative surgery for the definitive repair of a vasculitic nonhealing ulcer using platelet-derived growth factors and noncultured autologous cell suspension		Plastic and Reconstructive surgery 2013; 1:1-3	Case report	chronic wound, vasculitic ulcer
Woodrow, T and Chant H	Experience with autologous skin cell suspension (ASCS) in a complex foot wound		European Wound Management association 2015	Case report	plantar necrosis

Studies in plastics and aesthetics

Cervelli V, De Angelis B, Balzani A, Colicchia G, Spallone D, Grimaldi M	Treatment of stable vitiligo by ReCell® system		Acta Dermatovenerologica Croatica 2009;17(4):273-8	Case series (n=15) [ReCell study]	vitiligo, repigmentation
Cervelli V, De Angelis B, Spallone D, Lucarini L, Arpino A, Balzani A	Use of a novel autologous cell-harvesting device to promote epithelialization and enhance appropriate pigmentation in scar reconstruction		Clinical and Experimental Dermatology 2009;35(7):776-80	Case series (n=30)	hypopigmentation, scar, repigmentation
Cervelli V, Spallone D, Lucarini L, Palla L, Brinci L, De Angelis B	Treatment of stable vitiligo hands by ReCell® system: a preliminary report		European Review for Medical and Pharmacological Sciences 2010;14(8):691-4	Case report	vitiligo, repigmentation

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
Dunne J, Saleh D, Rawlins J	Management of rhinophyma with Versajet™ and ReCell®		British Journal of Oral and Maxillofacial Surgery 2013;51(8):e282-4	Case report	plastic surgery, maxillofacial
Gilleard O, Segaren N, Healy C	Experience of ReCell® in skin cancer reconstruction		Archives of Plastic Surgery 2013;40(5):627-9	Case series (n=3) (forehead flap donor site n=2, calvarial periosteum n=1) [ReCell study]	plastic surgery, maxillofacial
Gramlich G	Laser rejuvenation in combination with autologous cell suspension		Kosmetische Medizin 2010;1(10):25-9	Expert review	aesthetics, laser, wrinkles, acne scar, surgical scar
Goodman G	An automated autologous cell transplantation method for the treatment of hypopigmented Scarring		Dermatologic Surgery 2008;34(4):578-81	Case report	hypopigmentation, scar, repigmentation
Hivelin M, MacIver C, Heusse J, Atlan M, Lantieri L	Improving the colour match of free tissue transfers to the face with non-cultured autologous cellular spray - A case report on a chin reconstruction		Journal of Plastic, Reconstructive & Aesthetic Surgery 2012;65(8):1103-6	Case report	plastic surgery, maxillofacial, flap, scar, repigmentation
Hoffman K	Local use of keratinocyte cell spray benefits to fractional CO2 laser treatment of facial wrinkles and acne scars in the face		Face 2013	Case series (n=20) [ReCell study]	aesthetics, laser, wrinkles, acne scar
Kesting M, MacIver C, Wales C, Wolff K, Nobis C, Rohleder N.	Surface-optimized free flaps for complex facial defects after skin cancer		Journal of Cranio-Maxillo-Facial Surgery	Case Series (n=4)	Free tissue flaps Re-epithelialization Surgical flaps
Komen L, Vrijman C, Tjin EP, Krebbers G, de Rie MA, Luiten RM, van der Veen JP, Wolkerstorfer A.	Autologous cell suspension transplantation using a cell extraction device in segmental vitiligo and piebaldism patients: A randomized controlled pilot study		Journal American Academy of Dermatology 2015 Jul;73(1):170-2	Prospective RCT (n=10)	vitiligo, piebaldism, laser
Mulekar S, Ghwish B, Al Issa A, Al Eisa A	Treatment of vitiligo lesions by ReCell® vs conventional melanocyte-keratinocyte transplantation: a pilot study		British Journal of Dermatology 2008;158(1):45-9	(Within-subject) Comparative study (n=5, melanocyte-keratinocyte transplantation vs ReCell)	vitiligo, repigmentation
O'Neill T, Rawlins J, Rea S, Wood F	Treatment of a large congenital melanocytic nevus with dermabrasion and autologous cell suspension (ReCell®): A case report		Journal of Plastic, Reconstructive & Aesthetic Surgery 2011;64(12):1672-6	Case report	plastic surgery, nevus
Studies in plastics and aesthetics Mention or other relevance					
Gawkrodger D, Ormerod A, Shaw L, Mauri-Sole I, Whitton M, Watts M, Anstey A, Ingham J, Young K	Guideline for the diagnosis and management of vitiligo		British Journal of Dermatology 2008;159(5):1051-76	Expert review	vitiligo, repigmentation
In-vitro and preclinical studies					
Graham J, Stevenson R, Mitcheltree L, Hamilton T, Deckert R, Lee R, Schiavetta A	Medical management of cutaneous sulfur mustard injuries		Toxicology 2009;263(1):47-58	Preclinical comparative study (cultured epithelial allografts vs commercial off-the-shelf products)	acute burn, chemical, full-thickness, animal model
Lang E	ReCell® yields, viability and uniformity of spraying		Company white paper	In-vitro studies	
Navarro F, Stoner M, Lee H, Park C, Wood R, Orgill D	Melanocyte Repopulation in Full-Thickness Wounds Using a Cell Spray Apparatus		Journal of Burn Care & Rehabilitation 2001;22(1):41-6	Preclinical study	repigmentation, full-thickness, animal model

AUTHOR	PUBLICATION TITLE		CITATION	TYPE OF STUDY	KEYWORDS
Navarro F, Stoner M, Park C, Huertas J, Lee H, Wood F, Orgill D	Sprayed keratinocyte suspensions accelerate epidermal coverage in a porcine microwound model		Journal of Burn Care & Rehabilitation 2000;21(6):513-8	Preclinical study	acute burn, animal model
Wood FM, Giles N, Stevenson A, Rea S, Fear M	Characterisation of the cell suspension harvested from the dermal epidermal junction using a ReCell® kit		Burns 2012;(38):44-51	In-vitro study	
Wood F, Stoner M, Fowler B, Fear M	The use of a non-cultured autologous cell suspension and Integra® dermal regeneration template to repair full-thickness skin wounds in a porcine model: A one-step process		Burns 2007;33(6):693-700	Preclinical study	acute burn, full-thickness, animal model, dermal substitute
Related Articles					
Magnusson M, Papini R, Rea S, Reed C, Wood F	Cultured autologous keratinocytes in suspension accelerate epithelial maturation in an in vivo wound model as measured by surface electrical capacitance		Plastic and reconstructive surgery 2007;119(2):495-9	Double-blind, randomized, controlled trial (n = 8),	donor site treatment, cultured cell suspension
General Review Articles and Expert Opinion					
Conti E, Wood F, Leclerc-Chalvet M	ReCell®: Indication, Clinical practice and Expected Outcome		Journal of Wound Technology 2009;(4):59-62	Review (+ 2 case reports)	
Jeschke M, Finnerty C, Shahrokhi S, Branski L, Dibildox M	Wound coverage technologies in burn care: novel techniques		Journal of Burn Care Research 2013;34(6):612-20	Review	acute burn
Tenenhaus M, Rennekampff HO	Surgical Advances in Burn and Reconstructive Plastic Surgery New and Emerging Technologies		Clinics in Plastic Surgery 2012;39(4)435-43	Review	
Wood F	Clinical potential of autologous epithelial suspension		Wounds 2003;15(1):16-22	Review (burns) + 3 case reports	
Rare Diseases/Disorders					
O'Halloran E, Stewart N, Vetrichevval TP, Rea S, Wood F	Sweet's syndrome mimicking alkali burn: a clinical conundrum		Journal of plastic, reconstructive & aesthetic surgery 2012;66(6):867-9	Case report	