Bone Regeneration with CERASORB®
Literature

Orthopaedics & Trauma Surgery

2012

Gruber A, Hübner WD (2012):
Knochenersatz mit Cerasorb® in der orthopädischen Chirurgie/ Unfallchirurgie und Handchirurgie – Eine 10-Jahresstudie.
[Bone substitution with Cerasorb® in orthopedic, trauma, and hand surgery – a 10-years longtime study.]
Lecture at the „18. Rheuma-Winter-Symposium, 'Innovative Rheumachirurgie und Nachbehandlungskonsequenzen'", January 21, 2012, RTZ Nürnberg/Germany, Abstract in German.

2011

Batista MA, Leivas TP, Rodrigues CJ, Arenas GC, Belitardo DR, Guarniero R (2011):
Comparison between the effects of platelet-rich plasma and bone marrow concentrate on defect consolidation in the rabbit tibia.
Clinics (Sao Paolo) 2011; 66 (10): 1787-1792.

Luvizuto ER, Tangl S, Zanoni G, Okamoto T, Sonoda CK, Gruber R, Okamoto R (2011):
The effect of BMP-2 on the osteoconductive properties of β-tricalcium phosphate in rat calvaria defects.
Biomaterials. 2011 May; 32 (15): 3855-3861. Epub 2011 Mar 3.

2009

Berger S, Kaufmann MM, Siebert CH (2009):
Knochenersatzstoffe bei Pfannenwechsel – ein verlässlicher Weg bei älteren Patienten?
[Bone replacement materials in hip revision surgery – a reliable way in elder patients?]
Lecture No. 235 an the "57. Jahrestagung der Vereinigung Süddeutscher Orthopäden e.V.", Baden-Baden, Germany, May 1, 2009. Orthopädische Praxis, Special Edition 2009, p. 189. Abstract in German.

Bernhardt A, Lode A, Hänel T, Peters F, Gelinsky M (2009):
Perfusion culture of osteogenic induced mesenchymal stem cells on milled β-tricalcium phosphate (β-TCP) scaffolds. Poster presentation, 3rd CRTD summer conference on regenerative medicine, Dresden, 26.06.2009.

Bernstein A, Mayr HO, Görz L, Siebert C (2009):
Tissue Engineering von osteochondralen Defekten auf der Basis von resorbierbaren Scaffolds.
[Tissue engineering of osteochondral defects based on resorbable scaffolds.]
Poster presentation, Deutscher Kongress für Orthopädie und Unfallchirurgie, Berlin, 21.10.2009. Poster in German.

Hänel T, Peters F, Hoffmann C, Dürr H (2009):
Aus CT-Daten generierte patientenindividuelle Implantate aus β-Tricalciumphosphat für die Knochenregeneration.
[Patient individual ß-TCP implants for bone regeneration generated from CT-data.]
Regenerative Medizin 2009, 2 (1): 13-17. Article in German

Rupprecht M, Münch C, Barvencik F, Busse B, Rueger JM, Amling M (2009):
ß-Tricalciumphosphat in der Stabilisierung von Tibiakopffrakturen - Klinische Langzeitergebnisse bei 52 Patienten sowie histologische und rasterelektronenmikroskopische Subgruppenanalyse.
[Stabilisation of tibia head fractures with ß-TCP – Clinical long term results in 52 patients as well as histologically and electron microscopically subgroup evaluation.]
Presentation, Deutscher Kongress für Orthopädie und Unfallchirurgie, Berlin, 23.10.2009. Abstract presentation in German.

2008

Handschel J, Berr K, Depprich R, Naujoks C, Kubler NR, Meyer U, Ommerborn M, Lammers L. (2008):
Compatibility of Embryonic Stem Cells with Biomaterials.
J Biomater Appl. 2008, Aug 29, [Epub ahead of print]. doi:10.1177/0885328208094305, (p. 1-12).

Herten M, Rothamel D, Schwarz E, Friesen K, Koegler G, Becker J (2008):
Surface- and nonsurface-dependent in vitro effects of bone substitutes on cell viability.
Clin Oral Invest, 2008, Aug 8, [Epub ahead of print]. doi 10.1007/s00784-008-0214-8, (p. 1-7).

2007

Hauschild G, Bader A, Uhr G, Meyer-Lindenberg A, Fehr M (2007):
Klinischer Einsatz von β-Tricalciumphosphat – Erfahrungen mit einem matrixorientierten Ansatz zur Osteoregeneration.
[Clinical use of β-tricalcium phosphate – experience with a matrix-based approach to osseoregeneration.]
Tierärztl Prax. 2007, 35 (K): 5-13. Article in German.

Maus U, Andereya S, Gravius S, Ohnsorge JAK, Siebert CH, Kaufmann MM, Niedhart C (2007):
Klinische Erfahrungen mit dem resorbierbaren Knochenersatzstoff Cerasorb®.
[Clinical experience with the Resorbable Bone Substitute Cerasorb®.]
Orthopädische Praxis 2007, 43 (5): 258-261. Article in German.

Reinsch H, Spörl G, Thierfelder A (2007):
Einsatz des Knochenaufbaupräparates Cerasorb M® als Matrix für das Tissue Engineering.
[Use of the bone regeneration material Cerasorb M® as matrix for tissue engineering.]
Zeitschrift für Regenerative Medizin 2007, 2(1): 74-83. Article in German.

Schulz J, Pretzsch M, Khalaf I, Deiwick A, Scheidt HA, Salis-Soglio G, Bader A, Huster D (2007):
Quantitative Monitoring of Extracellular Matrix Production in Bone Implants by ^{13}C and ^{31}P Solid-State Nuclear Magnetic Resonance Spectroscopy.
Calcif Tissue Int. 2007, 80 (4): 275-285.

2006

Beyen I, Kasten P, Vogel J, Niemeyer P, Luginbühl R, Richter W (2006):
Porosity influences osteogenic differentiation in vivo and proliferation of mesenchymal stem cells in vitro on beta-tricalcium phosphate solid body scaffolds, but not osteogenic differentiation in vitro.
BIOmaterialien 2006, 7 (3): 119. Abstract.

Ermrich M, Peters F (2006):
X-ray powder diffraction data of synthetic β-Tricalcium Phosphate – Röntgenpulverdiffraktometrische Daten von synthetischem β-Tricalciumphosphat.
Mat.-wiss. u. Werkstofftech. 2006, 37 (6): 526-529. Article in English.

Friesen K (2006):
Proliferations-, Differenzierungs- und Adhäsionsverhalten osteogener Zelllinien auf unterschiedlichen Knochenersatzmaterialien.
[Proliferation, differentiation and adhesion behaviour of osteogenic cell lines on different bone substitutes.]
Dissertation, Poliklinik für Zahn-, Mund- und Kieferheilkunde, Heinrich-Heine-University, Düsseldorf, Germany 2006: 1-88. Text in German.

Handschel J, Berr K, Depprich R, Meyer U (2006):
Wechselwirkung verschiedener Biomaterialien mit undifferenzierten embryonalen Stammzellen.
[Interaction of different biomaterials with undifferentiated embryonal stem cells.]
56th Annual Congress of the „Arbeitsgemeinschaft für Kieferchirurgie“ (working group for maxillofacial surgery), Wiesbaden, Germany, May, 25 - 27, 2006. Abstract in German.

Horch HH, Pautke C (2006):
Regeneration statt Reparation – Eine kritische Bewertung des autogenen Knochentransplantates als “Goldstandard” bei der rekonstruktiven Chirurgie im Kieferbereich.
[Regeneration instead of reparation – A critical review of the autogenous bone transplant as ”golden standard“ of reconstructive oral surgery.]
Mund-, Kiefer- und GesichtsChir. 2006, 10 (4): 213-220. Article in German.

Isenberg J, Pearce S, Milz S, Libera J, Köbke J, Josimovic-Alasevic O, Rehm KE (2006):
Kritischer Tibiasegmentdefekt - Effekt autologer Osteoblasten auf einem vaskularisierten ß-TCP-Träger.
[Critical size defect of the tibia – Effect of autogenous osteoblasts on a vascularized ß-TCP-scaffold.]
Presentation at the “Deutscher Kongress für Orthopädie und Unfallchirurgie”, Berlin, Germany, October 04, 2006. Abstract in German

Maus U, Andereya S, Ohnsorge J, Siebert CH, Niedhart C (2006):
Klinische Testung des resorbierbaren Knochenersatzstoffes CERASORB®.
[Clinical Testing of the Resorbable Bone Substitute CERASORB®.]
Lecture Nr. 124, 54th Annual Congress, “Vereinigung Süddeutscher Orthopäden“, Baden-Baden 2006, Germany. Abstract in German.

Muench C, Schilling AF, Amling M, Rueger JM (2006):
Anwendung einer neuen, phasenreinen Beta-Trikalziumphosphatkeramik (β-TCP) zur Defektfüllung nach Tibiakopffrakturen.
[Application of a new pure beta-tricalcium phosphate ceramic (β-TCP) as void filler in tibia head fractures.]
Lecture on “Deutscher Kongress für Orthopädie und Unfallchirurgie”, Berlin. October 5, 2006. Meeting abstract in German.

Palm F (2006):
Cerasorb®M – a new synthetic pure-phase β-TCP ceramic material in oral and maxillofacial surgery – An open study of 121 patients.
IMOI 2006, 3: 24-27.

Szabo G, Bogdan S, Suba Z, Martonffy K, Hrabak K, Barabas J (2006):
Füllung großer Kieferknochendefekte mit ß-Tricalciumphosphat (Cerasorb): Eine Fünfjahresstudie.
[Filling of large jawbone defects with ß-tricalciumphosphate (Cerasorb®): A five-year study.]
Z Oral Implant 2006, 4: 202-211. Article in German.

2005

Herten M, Rothamel D, Friesen K, Schwarz F, Becker J (2005):
Zelladhäsion und Zelldifferenzierung an verschiedenen Knochenersatzmaterialien.
[Cell adhesion and cell differentiation on different bone substitutes.]
Poster presentation at the Symposium of the “Arbeitsgemeinschaft für Kieferchirurgie”, 5./6. Mai 2005, Bad Homburg v.d.H./Germany. Abstract in German.

Kim CS, Kim JI, Kim J, Choi SH, Chai JK, Kim CK, Cho KS (2005):
Ectopic bone formation associated with recombinant human bone morphogenetic proteins-2 using absorbable collagen sponge and beta tricalcium phosphate as carriers.
Biomaterials 2005, 26: 2501-2507.

Pretzsch M, Wild A, Schulz J, Khalaf I, Zernia G, Deiwick A, Gründer W, Bader A, Huster D (2005):
Solid-State NMR Spectroscopy on Bone - First Results and Perspectives.
Poster presented on 2nd World Congress on Regenerative Medicine, Leipzig, Germany, 2005.

Szabo G, Huys L, Coulthard P, Maiorana C, Garagiola U, Barabas J, Nemeth Z, Hrabak K, Suba Z (2005):
A Prospective Multicenter Randomized Clinical Trial of Autogenous Bone Versus β-Tricalcium Phosphate Graft Alone for Bilateral Sinus Elevation: Histologic and Histomorphometric Evaluation.
Int J Oral Maxillofac Implants 2005, 20: 371–381.

2004

Artzi Z, Weinreb M, Givol N, Rohrer MD, Nemcovsky CE, Prasad HS, Tal H (2004):
Biomaterial Resorption Rate and Healing Site Morphology of Inorganic Bovine Bone and β-Tricalcium Phosphate in the Canine: a 24-month Longitudinal Histologic Study and Morphometric Analysis.
Int J Oral Maxillofac Implants 2004 May-Jun, 19 (3): 357-368.

Aybar B, Bilir A, Akcakaya H, Ceyhan T (2004):
Effects of tricalcium phosphate bone graft materials on primary cultures of osteoblast cells in vitro.
Clin Oral Implants Res. 2004 Feb, 15 (1): 119-125.

Hauschild G, Bader A (2004):
Vor- und Nachteile synthetischer versus xenogener Knochenersatzmaterialien.
[Advantages and disadvantages of synthetic versus xenogen bone grafts.]
Tierärztliche Praxis Kleintiere 2004, 32: 67-70. Article in German.

Horch HH, Sader R, Kolk A (2004):
Synthetische, phasenreine Beta-Tricalciumphosphat-Keramik (Cerasorb) zur Knochenregeneration bei der rekonstruktiven Chirurgie der Kiefer - Eine klinische Langzeitstudie mit Literaturübersicht.
[Synthetic, non-reactive beta-tricalcium phosphate-ceramic (Cerasorb) for bone regeneration in the reconstructive surgery of the jaws. A clinical long term study with review of literature.]
Deutsche Zahnärztliche Zeitschrift 2004, 12: 680-686. Article in German.

Koepp HE, Schorlemmer S, Kessler S, Brenner RE, Claes L, Günther KP, Ignatius AA (2004):
Biocompatibility and Osseointegration of β-TCP: Histomorphological and Biomechanical Studies in a Weight-Bearing Sheep Model.
Journal of Biomedical Materials Research 2004, Aug 15, 70B (2): 209-217.

Peters F, Reif D (2004):
Functional Materials for Bone Regeneration from Beta-Tricalcium Phosphate.
Funktionelle Materialien zur Knochenregeneration aus Beta-Tricalciumphosphat.
Mat.-wiss. u. Werkstofftech. 2004, 35 No. 4: 203-207. Article in English.

Tadic D, Epple M (2004):
A thorough physicochemical characterisation of 14 calcium phosphate-based bone substitution materials in comparison to natural bone.
Biomaterials 2004, 25 (6): 987-994.

2003

Merten HA, Gruber RM, Nitsch A, Ludwig A, Schliephake H (2003):
Evaluation oralchirurgischer Augmentationsmaterialen - Ein tierexperimentell-histomorphologischer Vergleich.
[Evaluation of augmentative materials in oral surgery – A histomorphometric comparison in animals.]
Implantologie 2003, 11 (3): 215-236. Abstract in German.

2002

Gruber AA (2002):
Knochenaufbau mit Beta-Trikalzium-Phosphat (Beta-TCP), Erfahrung aus 50 Anwendungen von Beta-TCP unter besonderer Berücksichtigung der Knochentumoren.
[Formation of bone with Beta-tricalcium-phosphate (Beta-TCP), experience from 50 treatments with Beta-TCP under special regard of bone tumours.]
Z Orthop 2002, Abstract M056, Written in German.

Redeker J, Meyer-Marcotty M, Entezami A, Fluegel M (2002):
Erste Ergebnisse des Einsatzes von Cerasorb zur Auffüllung von Knochendefekten an der Hand.
[Initial Results of Using Cerasorb to Fill Bone Defects in the Hand.]
Poster presentation, 43rd DAH Symposium, Vienna 2002. Poster in German.

Wiltfang J, Merten HA, Schlegel KA, Schultze-Mosgau S, Kloss FR, Rupprecht S, Kessler P (2002):
Degradation Characteristics of α and β Tri-Calcium-Phosphate (TCP) in Minipigs.
J Biomed Mater Res. 2002, 63: 115-121.

2001

Merten HA, Wiltfang J, Grohmann U, Hoenig JF (2001):
Intraindividual Comparative Animal Study of α- and β-Tricalcium Phosphate Degradation in Conjunction with Simultaneous Insertion of Dental Implants.
J Craniofac Surg. 2001: 12 (1): 59-68.

Schönmayr R, Schmieder K, Goetz Ch, Weinzierl FX, Eysel P (2001):
Anterior Cervical Interbody Fusion with new Titanium-Cages (WING®).
Poster presentation at the 12th Worldcongress of Neurosurgery, Sydney 2001.

Schönmayr R, Ant MR, Melzer M (2001):
Anterior Cervical Interbody Fusion with PEEK-Plate-Cages (Scient'x®).
Poster presentation at the 12th Worldcongress of Neurosurgery, Sydney 2001.

Wolf K, Hamar J, Moravec S, Farkas T, Höcherl E, Pfister C (2001):
Analysis of the Morphology of Intergranular Porosity of β-Tricalcium Phosphate in Relation to Development of Vasculoneogenesis in an Animal Experiment and Overview of the Indications for β-Tricalcium Phosphate in Human Patients.
Applied Cardiopulmonary Pathophysiology 2001, 10 (2): 3-12.

2000

Merten HA, Hönig JF, Krantz C, Wiltfang J (2000):
Histomorphologische Untersuchungen zum Resorptionsverhalten phasenreiner βTCP-Keramiken im Tibiadefekt des adulten Minipigs.
[Histomorphological examinations on the resorption of pure-phase βTCP ceramics in tibia defects in the adult mini-pig.]
Osteosynthese International 2000, 8 (Suppl. 1): 107-110. Article in German.

Merten HA, Ludwig A, Wiltfang J, Hönig JF (2000):
Protegierte knöcherne Regeneration von klinisch relevanten Tibiadefekten mit phasenreiner βTCP-Keramik beim adulten Minipig.
[Bony regeneration of tibia defects with clinical relevance with pure-phase βTCP ceramic in the adult mini-pig.]
Osteologie 2000, 9 (Suppl. 1): 40. Article in German.

1999

Gruber AA (1999):
Erfahrungen mit Cerasorb® in der Praxis des niedergelassenen Chirurgen.
[Experience with Cerasorb® in the practice of an independent surgeon.]
Der niedergelassene Chirurg 1999, 3 (6): 37-40. Article in German.

Gruber AA (1999):
Practical Applications of a Bone Substitute – Beta-tricalcium Phosphate in Hand Surgery.
TraumaLinc 1999, 2: 50-58.

This Literature List was issued by:

curasan AG
Lindigstraße 4
63801 Kleinostheim
Germany

Phone: +49 6027 40900-0
Fax: +49 6027 40900-29
E-Mail: info@curasan.com
Web: www.curasan.com