

Ausgabe: face 1/2015

Thema: PRP in der ästhetischen Medizin - Grundlagen und Trends

Autorin: Dr. med. Melitta Löwenstein-Frey

Literatur

1. Matras H. Fibrin seal: The state of the art // *J. Oral. Maxillofac Surg.* – 1985; 43: 605
2. Assoian R.K., Komoriya A., Meyers C.A. et al. Transforming growth factor-beta in human platelets: Identification of a major storage site, purification, and characterization // *J. Biol. Chem.* – 1983; 10: 258
3. Leon J., Driver V., Fylling C. et al. The clinical relevance of treating chronic wounds with an enhanced near-physiological concentration of platelet-rich plasma gel // *Adv. Skin Wound Care.* – 2011; 24 (8): 357–368
4. Marx R. Platelet – rich plasma: evidence to support its use // *J. Oral Maxillofac.SUrg.* – 2004; 62: 489–496
5. Kim K., , Shin Y., Kim H. Effect of autologous platelet-rich plasma on persistent corneal epithelial defect after infectious keratitis // *Jpn. J. Ophthalmol.* – 2012; 56 (6): 544–550
6. López-Plandolit S., Morales M., Freire V, Grau A., Durán J. Efficacy of plasma rich in growth factors for the treatment of dry eye // *Cornea.* – 2011; 30 (12): 1312–1317
7. Vavken P., Sadoghi P., Murray M. The effect of platelet concentrates on graft maturation and graft–bone interface healing in anterior cruciate ligament reconstruction in human patients: a systematic review of controlled trials // *Arthroscopy.* – 2011; 27 (11): 1573–1583
8. Carlson N.E., and Roach, R.B.J.R. Platelet rich plasma:clinical applications in dentistry // *J. Am. Dent Assoc.* – 2002; 133: 1383
9. Sammartino G., Tia M., Marenzi G., di Lauro A. et al. Use of autologous plateletrich plasma (PRP) in periodontal defect treatment after extraction of impacted mandibular third molars // *J. Oral. Maxillofac Surg.* – 2005; 63: 766
10. im D., Je Y., Kim C., Lee Y. et al. Can Platelet-rich Plasma Be Used for Skin Rejuvenation? Evaluation of Effects of Platelet-rich Plasma on Human Dermal Fibroblast // *Ann. Dermatol.* – 2011; 23 (4): 424–431.

11. Krasna M., Domanović D., Tomsic A., Svajger U. et al. Platelet gel stimulates proliferation of human dermal fibroblasts in vitro // *Act. Dermatovenerol. Alp. Panonica Adriat.* – 2007; 16 (3): 105–110.
12. Sanchez A., Sheridan P., and Kupp L. Is platelet-rich plasma the perfect enhancement factor? A current review // *Int. J. Oral. Maxillofac Implants.* – 2003; 18: 93.
13. Hom D., and Maisel R. Angiogenic growth factors: their effects and potential in soft tissue wound healing // *Ann. Otol. Rhinol Laryngol.* – 1992; 101: 349.
14. Driver V., Hanft J., Fylling C., Beriou J. A prospective, randomized, controlled trial of autologous platelet-rich plasma gel for the treatment of diabetic foot ulcers // *Ostomy Wound Manag.* – 2006; 52 (6): 68–87.
15. Kakudo N., Minakata T., Mitsui T., Kushida S., Notodihardjo F.Z., Kusumoto K. Proliferation-promoting effect of platelet-rich plasma on human adipose-derived stem cells and human dermal fibroblasts // *Plast Reconstr Surg.* – 2008; 22: 1352–1360.
16. Cervelli V., Gentile P., Scioli M.G. et al. Application of platelet rich plasma in plastic surgery: clinical and in vitro evaluation // *Tissue Eng Part C Methods.* – 2009; 15 (4): 625–634.
17. Bielecki T., Gazdzik T., Arendt J., Szczepanski T. et al. Antibacterial effect of autologous platelet gel enriched with growth factors and other active substances. In vitro study // *J. Bone Joint Surg.* – 2007; 89 (3): 417–420.
18. Tang Y.Q., Yeaman M.R., Selsted M.E. Antimicrobial peptides from human platelets // *Infect Immun.* – 2002; 70: 6524–6533.
19. Marx R. Platelet-rich plasma (PRP): What is PRP and what is not PRP? // *Implant dent.* – 2001; 10: 225.
20. Nikolidakis D., Meijer G.J., Jansen J.A. Sinus floor elevation using platelet-rich plasma and beta-tricalcium phosphate: case report and histological evaluation // *Dent Today.* – 2008; 27: 66.
21. Marx R. Platelet – rich plasma: evidence to support its use // *J. Oral Maxillofac. Surg.* – 2004; 62: 489–496.
22. Sommeling C., Heyneman A., Hoeksema H., Verbelen J. et al. The use of platelet-rich plasma in plastic surgery: A systematic review // *J. of Plastic, Reconstructive & Aesthetic Surgery.* – 2013; 66: 301–312.
23. Ehrenfest D.M., Bielecki T., Mishra A. et al. In search of a consensus terminology in the field of platelet concentrates for surgical use: platelet-rich plasma (PRP), platelet-rich fibrin (PRF), fibrin gel polymerization and leukocytes // *Curr Pharm Biotechnol.* – 2012; 13 (7): 1131–1137.

24. Andia I., Abate M. Platelet-rich plasma: underlying biology and clinical correlates // *Regen. Med.* – 2013; 8 (5): 645–658
25. Zhou, L. and Schmaier, AH. Platelet aggregation testing in platelet-rich plasma: description of procedures with the aim to develop standards in the field. *Am J Clin Pathol.* 2005 Feb;123(2):172-83.
26. Margolis D., Kantor J., Santanna J., Strom B., Berlin J.A. Effectiveness of platelet releasate for the treatment of diabetic neuropathic foot ulcers // *Diabetes Care.* – 2001; 24 (3): 483–488.
27. Anitua E., Aguirre J., Algorta J. et al. Effectiveness of autologous preparation rich in growth factors for the treatment of chronic cutaneous ulcers // *J. Biomed. Mater. Res. B Appl. Biomater.* – 2008; 84 (2): 415–421.
28. Freymiller E. Platelet-rich plasma: evidence to support its use // *J. Oral Maxillofac Surg.* – 2004; 62: 1046.
29. Wrotniak M., Bielecki T., Gaździk T.S. Current opinion about using the platelet-rich gel in orthopaedics and trauma surgery // *Ortop Traumatol Rehabil.* – 2007; 9: 227–238.)
30. Sorrell M., Caplan A.I., Fibroblasts – a diverse population at the center of it all. *International Review of Cell and Molecular biology* // 2009; 276: 161–214.
31. Varani J., Dame M., Rittie L. et al. Decreased Collagen Production in Chronologically Aged Skin.Roles of Age-Dependent Alteration in Fibroblast Function and Defective Mechanical Stimulation. *AJP.* – 2006; 168 (6): 1861–1868.
32. Fisher G., Varani J., and Voorhees J. Looking older: Fibroblast Collapse and Therapeutic Implications // *Arch. Dermatol.* – 2008; 144 (5): 666–672.).
33. Kakudo N., Minakata T., Mitsui T., Kushida S., Notodihardjo F.Z., Kusumoto K. Proliferation- promoting effect of platelet-rich plasma on human adipose- derived stem cells and human dermal fibroblasts // *Plast Reconstr Surg.* – 2008; 22: 1352–1360
34. Redaelli A., Romano D., Marciano A. Face and neck revitalization with platelet-rich plasma (PRP): clinical outcome in a series of 23 consecutively treated patients // *J. Drugs Dermatol.* – 2010; 9 (5): 466–472.
35. Mishra A., Pavelko T. Treatment of chronic elbow tendinosis with buffered platelet-rich plasma // *Am. J. Sports Med.* – 2006; 34 (11): 1774–1778.
36. Sclafani A. Safety, Efficacy, and Utility of Platelet-Rich Fibrin Matrix in Facial Plastic Surgery // *ARCH FACIAL PLAST SURG.* – 2011; 13 (4): 247–250.
37. Sclafani A. Platelet-rich fibrin matrix for improvement of deep nasolabial folds // *J. of Cosmetic Dermatology.* – 2010; 9: 66–71.

38. Sclafani A. Applications of Platelet-Rich Fibrin Matrix in Facial Plastic Surgery // FACIAL PLASTIC SURGERY. – 2009; 25 (4): 271–276.)
39. Sclafani A. Safety, Efficacy, and Utility of Platelet-Rich Fibrin Matrix in Facial Plastic Surgery // ARCH FACIAL PLAST SURG. – 2011; 13 (4): 247–250.
40. Sclafani A. Platelet-rich fibrin matrix for improvement of deep nasolabial folds // J. of Cosmetic Dermatology. – 2010; 9: 66–71.
41. Sclafani A. Applications of Platelet-Rich Fibrin Matrix in Facial Plastic Surgery // FACIAL PLASTIC SURGERY. – 2009; 25 (4): 271–276.)
42. Na J., Choi M., Choi H., Jeong J., Park K. et al. Rapid Healing and Reduced Erythema after Ablative Fractional Carbon Dioxide Laser Resurfacing Combined with the Application of Autologous Platelet-Rich Plasma // Dermatol Surg. – 2011; 37: 463–468.
43. Shin M., Lee J., Lee S., Kim N. Platelet-Rich Plasma Combined with Fractional Laser Therapy for Skin Rejuvenation // Dermatol Surg. – 2012; 38: 623–630.)
44. Fife D., Fitzpatrick R., Zachary C. Complications of fractional CO2 laser resurfacing: four cases // Lasers Surg Med. – 2009; 41: 179–184.
45. Lacz N., Vafaie J., Kihiczak N. et al. Postinflammatory hyperpigmentation: a common but troubling condition // Int. J. Dermatol. – 2004; 43: 362–365.)
46. Anitua E., Andia I., Ardanza B. et al. Autologous platelets as a source of proteins for healing and tissue regeneration // Thromb Haemost. – 2004; 91: 4–15.)
47. Burd A., Zhu N., Poon V.K. A study of Q-switched Nd:YAG laser irradiation and paracrine function in human skin cells // Photodermatol Photoimmunol Photomed. – 2005; 21: 131–137.)
48. Man D., Plosker H., Winland–Brown J. The use of autologous platelet-rich plasma (platelet gel) and autologous platelet-rich plasma (platelet glue) in cosmetic surgery. Plast Reconstr Surg. – 2001; 107 (3): 229–239.
49. Mandel M.A. Minimal suture blepharoplasty: closure of incisions with autologous fibrin glue // Aesth. Plast. Surg. – 1992; 16 (3): 269–272.
50. Powell D.M., Chang E., Farrior E.H. Recovery from deepplane rhytidectomy following unilateral wound treatment with autologous platelet gel: a pilot study // Arch Facial Plast Surg. – 2001; 3: 245–250.)
51. Sommeling C., Heyneman A., Hoeksema H., Verbelen J. et al. The use of platelet-rich plasma in plastic surgery:A systematic review // J. of Plastic, Reconstructive & Aesthetic Surgery. – 2013; 66: 301–312.)