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Ph. D. Program

Subject Code: 1RI3000102	Subject Title: Essentials of Disciplinary Research Subject-1 Subject Sub-Title: BASIC PERIODONTOLOGY
Pre-requisite Subject	NONE

Objectives of course:

1. To develop basic knowledge of clinical skills pertaining to diagnosis, treatment and prevention of human periodontal diseases as well as advanced understanding of dental implant placement, treatment of peri – implant diseases and maintenance.
2. To foster collaborative, inter – disciplinary, educational and investigative research activities of human periodontal and peri – implant diseases.
3. To introduce the student to the basic statistical methods used in dental / periodontal research, the interpretation of results of statistical analysis and the statistical content of published research paper.
4. To introduce the student to the multi – variable statistical methods used in dental / periodontal research and to provide basic training to the student using the SPSS for windows to analyze dental research data.

Learning outcomes:

1. To have a clear understanding of clinical dexterity and academic knowledge of human periodontal diseases as well as dental implant placement, treatment of peri – implant diseases and maintenance.
2. To have an idea of advanced research activities in the subject of etiology, diagnosis and treatment of periodontal and peri – implant diseases.
3. On completion of the course, the student should be able to address statistical issues when formulating a research project and to appraise the basic statistical content of a published dental research paper.
4. On completion of the course, the student should be able to carry out the basic analysis of the data collected during the dental research using the SPSS software for windows.
5. The research work should be beneficial to the society by the way of introducing newer concepts in context of etiology, diagnosis, treatment and management of human periodontal and peri – implant diseases.

Teaching Scheme (Credit Distribution)				Evaluation Scheme(% Marks)	Total Marks
Lecture	Tutorial	Practical	Credit	Continuous (Internal) Assessment	
3	1	--	4	100%	100

CONTINUOUS ASSESSMENT includes assignments, tutorials, research related progress, literature survey of 3 research papers from peer-reviewed international journals and paper presentations at national /international conferences and publications in indexed journals.

	Subject Content	
Unit	**Content**	**Wt. (%)**
1	Microscopic anatomy of periodontium	2
2	Alveolar and Basal Bone	2
3	Concept of Bio – film	2
4	Etiopathogenesis of gingival and periodontal diseases	2
5	Host microbial interaction and Tissue destruction	2
6	Genetics and periodontal diseases	1
7	Systemic diseases and periodontal diseases: Interrelationship	2
8	Clinical features of gingivitis and periodontitis	2
9	Diagnostic approaches	2
10	Determination of prognosis	2
11	Rationale and Treatment planning	2
12	Phase I Periodontal Treatment	1
13	Periodontal surgeries	2
14	Resective and Regenerative periodontal therapies	2
15	Periodontal Plastic procedures	1
16	Supportive Periodontal Therapy (SPT / Maintenance)	2
17	Basic concepts of LASER and its therapeutic use	2
18	Periodontal micro – surgery	1
19	Biologic rationale for dental implants	2
20	Microscopic anatomy of peri-implant tissue	4
21	Bone metabolism	2
22	Bone metabolism around immediate implants	2
23	Healing around Dental implants	2

24	Healing around immediate implants	2
25	Primary and Additive etiological factors	2
26	Implant design and Surface treatment	4
27	Pathogenesis of peri-implant infection	2
28	Clinical manifestations	2
29	Classification of peri-implant defects	2
30	Clinical diagnosis	2
31	Radiographic diagnosis and use of CBCT	2
32	Indices	2
33	Prevalence of peri – implantitis	4
34	Non- plaque induced peri-implant inflammation	2
35	Essentials of treatment planning	2
36	Role of occlusion	2
37	Treatment plan	4
38	Non- surgical phase	2
39	Surgical phase	2
40	Role of bio-materials	2
41	Platelet concentrates	2
42	Hard Tissue and Soft Tissue LASERs	2
43	Soft tissue defects around implants	2
44	Soft tissue management around implants	2
45	Bony defects around implants	2
46	Guided Bone Regeneration around implants	2
47	Role of antibiotics in implant diseases	2
48	Peri-implantitis and its management	2

49	Role of systemic diseases in Peri-implant Disease	2
50	Protocol for implant maintenance	4

List of References:

LIST OF TEXTBOOKS

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10. Peri-implantitis, Author: Stefan Renvert, Jean-Louis Giovannoli, Quintessence Pub., 2012

LIST OF REFERENCE ARTICLES

1. Mark.A. Reynolds, Mary Elizabeth Aichelmann-Reidy, Grishondra L., Branch-Mays, John.C.Gunsolley. The efficacy of bone replacement grafts in the treatment of periodontal osseous defects: A systematic review. Ann Periodontal, Volume 8, number 1, December 2003
2. A.L. Dumitrescu. Bone Grafts and Bone Graft Substitutes in Periodontal Therapy. Chemicals in Surgical Periodontal Therapy, 73 DOI: 10.1007/978-3-642-18225-9_2, © Springer-Verlag Berlin Heidelberg 2011
3. Abhishek Kandwal , Jigyasa Bhardwaj , Sunny , Mannu Batra. Bone Grafts In Periodontal Surgery . A Review. Journal of Dental Herald, (July 2014) Issue:3, Vol.:1

4. Zucchelli, G. and Mounssif, I.Periodontal plastic surgery. Periodontol 2000, 2015, 68: 333–368. doi:10.1111/prd.12059
5. Leandro Chambrone, Luiz A. Lima, Francisco E. Pustiglioni, Luiz Armando Chambrone. Systematic Review of Periodontal Plastic Surgery in the Treatment of Multiple Recession-Type Defects. JCDA , April 2009, Vol. 75, No. 3
6. Cortellini G, Tonetti MS: Focus on intrabony defects: guided tissue regeneration, *Periodontol 2000* 22:104, 2000.
7. Gaia Pellegrini, Giorgio Pagni, and Giulio Rasperini, "Surgical Approaches Based on Biological Objectives: GTR versus GBR Techniques," International Journal of Dentistry, vol. 2013, Article ID 521547, 13 pages, 2013.
8. Prichard JF: The intrabony technique as a predictable procedure, *J Periodontol* 28:202, 1957.
9. Tonetti M, Pini Prato GP, Williams R, et al: Periodontal regeneration of human infrabony defects. III. Diagnostic strategies to detect bone gain, *J Periodontol* 64:269, 1993.
10. Gottlow, et al. New attachment formation in the human periodontium by Guided Tissue Regeneration. J Clin Perio 1986.
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12. Prevalence of Peri-Implantitis Related to Severity of the Disease With Different Degrees of Bone Loss, Odd Carsten Koldsland, Anne Aamdal Scheie, and Anne Merete AassFebruary 2010, Vol. 81, No. 2, Pages 231-238
13. Definition and prevalence of peri-implant diseases. Nicola U. Zitzmann, Tord Berglundh .The 6 European Workshop on Periodontology Contemporary PeriodonticsVolume 35, Issue s8, September 2008Pages 286–291.
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17. Peri-implantitis prevalence and treatment in implant-oriented private practices: a cross-sectional postal and Internet survey. Schmidlin PR ,Sahrmann P ,Ramel C ,Imfeld T , Müller J , Roos M , Jung RE Journal Schweiz Monatsschr Zahnmed [2012, 122(12):1136-1144]
18. Prevalence of peri-implant diseases. A cross-sectional study based on a private practice environment. Javier Mir-Mari,Pedro Mir-Orfila,Rui Figueiredo,Eduard ,lmaseda-Castellón,Cosme Gay-EscodaVolume 39, Issue 5,May 2012, Pages 490–494.
19. The diagnosis and treatment of peri-implantitis Andrea Mombelli,Niklaus P. Lang. **Periodontology 2000** Volume 17, Issue 1, June 1998, Pages 63–76
20. Konstantinovic VS, Lazic V., Ihde S. Disk implants retained nasal epithesis. Case report and literature review. J Craniofac Surg 2010;21: (1) 33-36
21. Ihde S., Kopp S., Ihde A. Fallbericht : Palatinale Insertion von basalen Implantaten – Fallbericht und Diskussion einer alternativen Implantationstechnik für den Oberkiefer, CMF Impl. Dir. Vol.5 N° 1 Januar: 9 – 18 (2010)
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23. Treatment of a severely resorbed mandible with endosseous implants in an immediate loading protocol (in Arab), Arab Dental 2010, 1: 32
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27. Ihde S., Outcomes of immediately loaded full arch reconstructions on basal implants and teeth in the mandible: restrospective report on 115 consecutive cases during a period of up to 134 months. CMF Impl Dir 1(3): 50-60, 2008
28. Ihde S., Immediate Restoration after failure and replacement of basal implants CMF Impl. Dir 1 (3); 28-35, 2008
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30. Ihde S., Soo-Nam Yang, Yoo Hyo Ha. The primary stability and survival rate of 2-stage, conical compression screw implants; J Maxillofac Oral Surg Ind , 2008, Vol 7, No. 2: 273 – 277

31. Ihde S., Goldman T., Himmlova L., Aleksic Z. The use of finite element analysis to model bone-implant contact with basal implants. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2008 Apr 23; [Epub ahead of print]; PMID: 18439855 [PubMed - as supplied by publisher]
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33. Himmlova L., Goldman T., Ihde S., Konvickova S. Time analysis of hard and soft bolus processing. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2007 Dec; 151(2):327-32.
34. Ihde S., Konstantinovic V.S. Immediate Loading of Dental Implants. Where is the dip? CMF Impl. Dir. 2007 4:137-145
35. Ihde SK, Konstantinovic VS. The therapeutic use of botulinum toxin in cervical and maxillofacial conditions: an evidence-based review. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2007 Jun 6; PMID: 17560141 [PubMed - indexed for MEDLINE]
36. Ihde S. BOI: a case of immediate loading alternative after failed dental implants. CMF Impl. Dir. 3 (2007): 75-77
37. Ihde S. Prophylactic use of Botulinum toxin in dental Implantology. Clinical Note. CMF Impl.dir. 2 (2007):29 – 34
38. Comparison and definition of the pathological phenomena occurring after a tooth replacement and the possible therapeutic stages implying basal and crestal implants. Implantodontie 14 (2005) 176-185
39. Ihde S. (6) Utilisation therapeutique de la toxine botulique dans le traitement d`etretin Implantodontie 14(2005) 56 -61
40. Ihde S. (5) Utilisation prophylactique de la toxine botulique en implantologie dentaire Implantodontie 14(2005) 51 – 55
41. Ihde S., Eber M. (4) Case report: restoration of edentulous mandible with 4 BOI implants in an immediate load procedure. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2004 Dec;148(2):195-8. PMID: 15744373 [PubMed - indexed for MEDLINE]
42. Ihde S. Confronto e definizione di fenomeni periimplantari patologici nel caso di impianti basali e crestali. Implantologia Dental 1,2, 90-96 (2004)
43. Ihde S. Aspects of Biocompatibility of dental implants as a function of implant design, enossal surface structure , and time of loading. Biomaterialien, 5 (S1), 24 (2004)
44. Ihde S. Development of the basal osseointegration. Nove Stomatologii ; 111 (3) 2003 p. 13-35
45. Ihde S. (3) Adaptation fonctionelles de la hauteur de l`os peri-implantaire apre implantation de BOI dans la mandibule. Implantodontie 12(2003) 23-33

46. Auch veröffentlicht in: (in Tschechischer Sprache), Dentalni TRH 2/2003, S.7 – 13: Osetreni Jednostranke Zkraceneho Zubniho Oblouku S Redukovanou Nabidkou Kosti Pomoci. BOI Methody. Auch veröffentlicht in: (in russischer Sprache) Nove b Stomatologii; (111) 3, 2003, p. 38 -49
47. Ihde S., E. Mutter (2) Versorgung von Freiendsituationen mit basalosseointegrierten Implantaten (BOI) bei reduziertem vertikalem. Knochenangebot Retrospektive Untersuchung von 228 Behandlungsfällen mit 275 konsekutiv inserierten basalosseointegrierten. Implantaten Deutsche Zahnärztl. Zeitschr. (2003) 2: 94- 101
48. Ihde S., Konstantinovic V., B. Cutilo. Der „kleine Reifenwechsel“ – Austausch eines BOI unter der vorhandenen festsitzenden Versorgung. Dent Implantol 6, 358 -361 (2002)
49. Ihde S. Ersatz eines funktionsuntüchtigen Blattimplantats durch ein basalosseointegriertes Implantat. Dent Implantol 6, 180-182 (2002)
50. Ihde S. Osteotomie bei BOI-Implantaten: Wie kühlen? Dental Spiegel 3/2002; 42-43
51. Ihde S. (1) Restoration of the atrophied mandible using BOI and fixed prosthetic suprastrucures Implant Dentistry, Vol 10, 2001, Nr. 1, page 41 – 45. MID: 11307647 [PubMed - indexed for MEDLINE]

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Ph. D. Program

Subject Code: 1RI3000103	**Subject Title: Essentials of Disciplinary Research Subject-2** **Subject Sub-Title: ADVANCED PERIODONTOLOGY**
Pre-requisite Subject	**- NONE -**

Objectives of course:

5. To develop knowledge and clinical skills pertaining to diagnosis, treatment and prevention of human periodontal diseases as well as advanced understanding of dental implant placement, treatment of peri – implant diseases and maintenance.
6. To foster collaborative, inter – disciplinary, educational and investigative research activities of human periodontal and peri – implant diseases.
7. To introduce the student to the basic statistical methods used in dental / periodontal research, the interpretation of results of statistical analysis and the statistical content of published research paper.
8. To introduce the student to the multi – variable statistical methods used in dental / periodontal research and to provide basic training to the student using the SPSS for windows to analyze dental research data.

Learning outcomes:

1. To have a clear understanding of clinical dexterity and academic knowledge of human periodontal diseases as well as dental implant placement, treatment of peri – implant diseases and maintenance.
2. To have an idea of advanced research activities in the subject of etiology, diagnosis and treatment of periodontal and peri – implant diseases.
3. On completion of the course, the student should be able to address statistical issues when formulating a research project and to appraise the basic statistical content of a published dental research paper.
4. On completion of the course, the student should be able to carry out the basic analysis of the data collected during the dental research using the SPSS software for windows.
5. The research work should be beneficial to the society by the way of introducing newer concepts in context of etiology, diagnosis, treatment and management of human periodontal and peri – implant diseases.

Teaching Scheme (Credit Distribution)				**Evaluation Scheme(% Marks)**	**Total Marks**
Lecture	**Tutorial**	**Practical**	**Credit**	**Continuous (Internal) Assessment**	
---			**2**	**100%**	**50**

	Subject Content	
Unit	**Content**	**Wt. (%)**
1	Microscopic anatomy of periodontium	2

2	Alveolar and Basal Bone	2
3	Concept of Bio – film	2
4	Etiopathogenesis of gingival and periodontal diseases	2
5	Host microbial interaction and Tissue destruction	2
6	Genetics and periodontal diseases	1
7	Systemic diseases and periodontal diseases: Interrelationship	2
8	Clinical features of gingivitis and periodontitis	2
9	Diagnostic approaches	2
10	Determination of prognosis	2
11	Rationale and Treatment planning	2
12	Phase I Periodontal Treatment	1
13	Periodontal surgeries	2
14	Resective and Regenerative periodontal therapies	2
15	Periodontal Plastic procedures	1
16	Supportive Periodontal Therapy (SPT / Maintenance)	2
17	Basic concepts of LASER and its therapeutic use	2
18	Periodontal micro – surgery	1
19	Biologic rationale for dental implants	2
20	Microscopic anatomy of peri-implant tissue	4
21	Bone metabolism	2
22	Bone metabolism around immediate implants	2
23	Healing around Dental implants	2
24	Healing around immediate implants	2
25	Primary and Additive etiological factors	2

26	Implant design and Surface treatment	4
27	Pathogenesis of peri-implant infection	2
28	Clinical manifestations	2
29	Classification of peri-implant defects	2
30	Clinical diagnosis	2
31	Radiographic diagnosis and use of CBCT	2
32	Indices	2
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36	Role of occlusion	2
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44	Soft tissue management around implants	2
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47	Role of antibiotics in implant diseases	2
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50	Protocol for implant maintenance	4

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9. Essentials Of Preventive Community Dentistry, Author: Dr. Soben Peter
10. Peri-implantitis, Author: Stefan Renvert, Jean-Louis Giovannoli, Quintessence Pub., 2012
11. Research methodology,Author: C R Kothari
12. Biostatistics, Author:Jay S. Kim and Ronald J.Dailey
13. Statistical and Methodological Aspects of Oral Health Research: Samir Malhotra

LIST OF REFERENCE ARTICLES

1. Mark.A. Reynolds, Mary Elizabeth Aichelmann-Reidy, Grishondra L., Branch-Mays, John.C.Gunsolley. The efficacy of bone replacement grafts in the treatment of periodontal osseous defects: A systematic review. Ann Periodontal, Volume 8, number 1, December 2003
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3. Abhishek Kandwal , Jigyasa Bhardwaj , Sunny , Mannu Batra. Bone Grafts In Periodontal Surgery . A Review. Journal of Dental Herald, (July 2014) Issue:3, Vol.:1
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6. Cortellini G, Tonetti MS: Focus on intrabony defects: guided tissue regeneration, *Periodontol 2000* 22:104, 2000.
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18. Prevalence of peri-implant diseases. A cross-sectional study based on a private practice environment. Javier Mir-Mari,Pedro Mir-Orfila,Rui Figueiredo,Eduard ,lmaseda-Castellón,Cosme Gay-EscodaVolume 39, Issue 5,May 2012, Pages 490–494.
19. The diagnosis and treatment of peri-implantitis Andrea Mombelli,Niklaus P. Lang. **Periodontology 2000**

Volume 17, Issue 1, June 1998, Pages 63–76

20. Konstantinovic VS, Lazic V., Ihde S. Disk implants retained nasal epithesis. Case report and literature review. J Craniofac Surg 2010;21: (1) 33-36
21. Ihde S., Kopp S., Ihde A. Fallbericht : Palatinale Insertion von basalen Implantaten – Fallbericht und Diskussion einer alternativen Implantationstechnik für den Oberkiefer, CMF Impl. Dir. Vol.5 N° 1 Januar: 9 – 18 (2010)
22. Ihde S., Rusak A. Case Report: Treatment of a severely resorbed mandible with endosseous implants in an immediate loading protocol. CMF Impl. Dir. (2009)
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24. Goldman T., Ihde S., Kuzelka J., Himmlova L., Bendable vs. angulated dental implants: considerations of elastic and plastic material properties based in experimental implant material data and FEM. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2008, 152 (2)
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29. Ihde S., T. Goldmann, L. Himmlova, Z. Aleksic, J. Kuzelka. Implementation of Contact Definitions Calculated by FEA to Describe the Healing Process of Basal implants. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2008, 152 (1): 1 – 6
30. Ihde S., Soo-Nam Yang, Yoo Hyo Ha. The primary stability and survival rate of 2-stage, conical compression screw implants; J Maxillofac Oral Surg Ind , 2008, Vol 7, No. 2: 273 – 277
31. Ihde S., Goldman T., Himmlova L., Aleksic Z. The use of finite element analysis to model bone-implant contact with basal implants. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2008 Apr 23; [Epub ahead of print]; PMID: 18439855 [PubMed - as supplied by publisher]
32. Ihde S. Replacement of a maxillary denture, extraction of residual teeth and implant borne reconstruction in an immediate load protocol. CMF Impl. Dir. Vol.3 N° 4 December: 153 – 158 (2008)
33. Himmlova L., Goldman T., Ihde S., Konvickova S. Time analysis of hard and soft bolus processing. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2007 Dec; 151(2):327-32.

34. Ihde S., Konstantinovic V.S. Immediate Loading of Dental Implants. Where is the dip? CMF Impl. Dir. 2007 4:137-145
35. Ihde SK, Konstantinovic VS. The therapeutic use of botulinum toxin in cervical and maxillofacial conditions: an evidence-based review. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2007 Jun 6; PMID: 17560141 [PubMed - indexed for MEDLINE]
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39. Ihde S. (6) Utilisation therapeutique de la toxine botulique dans le traitement d`etretin Implantodontie 14(2005) 56 -61
40. Ihde S. (5) Utilisation prophylactique de la toxine botulique en implantologie dentaire Implantodontie 14(2005) 51 – 55
41. Ihde S., Eber M. (4) Case report: restoration of edentulous mandible with 4 BOI implants in an immediate load procedure. Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub. 2004 Dec;148(2):195-8. PMID: 15744373 [PubMed - indexed for MEDLINE]
42. Ihde S. Confronto e definizione di fenomeni periimplantari patologici nel caso di impianti basali e crestali. Implantologia Dental 1,2, 90-96 (2004)
43. Ihde S. Aspects of Biocompatibility of dental implants as a function of implant design, enossal surface structure , and time of loading. Biomaterialien, 5 (S1), 24 (2004)
44. Ihde S. Development of the basal osseointegration. Nove Stomatologii ; 111 (3) 2003 p. 13-35
45. Ihde S. (3) Adaptation fonctionelles de la hauteur de l`os peri-implantaire apre implantation de BOI dans la mandibule. Implantodontie 12(2003) 23-33
46. Auch veröffentlicht in: (in Tschechischer Sprache), Dentalni TRH 2/2003, S.7 – 13: Osetreni Jednostranke Zkraceneho Zubniho Oblouku S Redukovanou Nabidkou Kosti Pomoci. BOI Methody. Auch veröffentlicht in: (in russischer Sprache) Nove b Stomatologii; (111) 3, 2003, p. 38 -49
47. Ihde S., E. Mutter (2) Versorgung von Freiendsituationen mit basalosseointegrierten Implantaten (BOI) bei reduziertem vertikalem. Knochenangebot Retrospektive Untersuchung von 228 Behandlungsfällen mit 275 konsekutiv inserierten basalosseointegrierten. Implantaten Deutsche Zahnärztl. Zeitschr. (2003) 2: 94- 101
48. Ihde S., Konstantinovic V., B. Cutilo. Der „kleine Reifenwechsel“ – Austausch eines BOI unter der vorhandenen festsitzenden Versorgung. Dent Implantol 6, 358 -361 (2002)
49. Ihde S. Ersatz eines funktionsuntüchtigen Blattimplantats durch ein basalosseointegriertes Implantat. Dent Implantol 6, 180-182 (2002)

50. Ihde S. Osteotomie bei BOI-Implantaten: Wie kühlen? Dental Spiegel 3/2002; 42-43
51. Ihde S. (1) Restoration of the atrophied mandible using BOI and fixed prosthetic suprastrucures Implant Dentistry, Vol 10, 2001, Nr. 1, page 41 – 45. MID: 11307647 [PubMed - indexed for MEDLINE]
52. Sackett DA, Strauss SE, Richardson WS. Evidence-based medicine: How to practice and teach EBM. London: Churchill Livingstone;2000.
53. Reza Pourabbas. Evidence-based Periodontology: From Knowledge and Attitude to Practice. J Periodontol Implant Dent 2012;4(1):1
54. Newman M, Caton J, Gunsolly J. Evidence-based periodontology. Ann Periodontol 2003;8:1.
55. Ian Needleman, David R. Moles & Helen Worthington. Evidence-based periodontology, systematic reviews and research quality. Periodontology 2000, vol. 37, 2005, 12–28.
56. Muir Gray JA. Evidence-based, locally owned, patient-centred guideline development. Br J Surg; 1997;84(12):1636-7
57. EBM Working Group. Evidence-based medicine. JAMA 1992: 268: 2420–2425.
58. Needleman IG, Giedrys-Leeper E. Guided tissue regeneration for periodontal infra-bony defects. Cochrane Database Syst Rev 2001;2:CD001724.
59. Richards D. Not all evidence is created equal – so what is good evidence? Evid Based Dent 2003: 4: 17–18.
60. Carranza FA, Newman MG, Takei HH. Clinical Periodontology.10th ed. Missouri: Saunders, 2006.
61. R. Vijayalakshmi, V. Anitha, T. Ramakrishnan, Uma Sudhakar. Evidence-based periodontal therapy: An overview. J Ind Soc Periodont - Vol 12, Issue 3, Sep-Dec 2008.
62. Labriola A, Needleman I, Moles DR. Systematic review of the effect of smoking on nonsurgical periodontal therapy. Periodontology 2000;37:124-37.
63. Murphy KG, Gunsolley JC. GTR for the treatment of periodontal intrabony and furcation defects: A systematic review. Ann Periodontol 2003;8:266-302.
64. Trombelli I, Heitz-Mayfield LJ, Needleman I. A systematic review of graft materials and biological agents for periodontal intraosseous defects. J Clin Periodontol 2002;29:117-35.
65. Reynolds MA, Branch-Mays GL, Gunsolley JC. The efÞ cacy of bone replacement grafts in the treatment of periodontal osseous defects: A systematic review. Ann Periodontol 2003;8:227-65.
66. Org MM, Eber RM, Wang HL. Evaluation of a bioactive glass alloplast in treating periodontal intrabony defects. J Periodontol 2000;71:1821-8.
67. Fleming TF, Ehmke B, Bolz K. Long-term maintenance of alveolar bone gain after implantation of autolyzed, antigen-extracted, allogenic bone in periodontal intraosseous defects. J Periodontol 1998;69:47-53.
68. Galgut PN, Waite IM, Bookshaw JD. A 4 year controlled clinical study into the use of a ceramic hydroxyapatite implant material for the treatment of periodontal bone defects. J Clin Periodontol 1992;19:57-7.

69. Yukna RA, Mayer ET, Amos SM. A 5-year evaluation of Durapatite ceramic alloplastic implants in periodontal osseous defects. J Periodontol 1989;60:544-51.
70. Heitz-MayÞ eld L, Trombelli L, Heitz F. A systematic review of the effect of surgical debridement Vs non-surgical debridement for the treatment of chronic periodontitis. J Clin Periodontol 2002;29:92-102.
71. Antizack A, Joshipura K, Burdick E. Meta-analysis of surgical Vs nonsurgical methods in the treatment of periodontal diseases. J Clin Periodontol 1993;20:259-68.
72. Pagliaro U, Nieri M, Franceschi D, Clauser C, Pini-Prato G. Evidence-based mucogingival therapy, Part I: Critical review of the literature on root coverage procedures. J Periodontol 2003;74:709-40.