

บรรณานุกรม

บรรณานุกรม

- Abbott, P.V. (1997). Aesthetic considerations in endodontics; Internal bleaching. **Practical Periodontics and Aesthetic Dentistry**, 9, 833-840.
- Answers.com. (n.d.). **Chlorhexidine gluconate**. Retrieved March 4, 2008, from <http://www.answers.com/topic/chlorhexidine-gluconate?cat=health>
- Arens, D. (1989). The role of bleaching in esthetics. **Dental Clinics of North America**, 33 (2), 319-336.
- Ari, H. and Ungor, M. (2002). In vitro comparison of different types of sodium perborate used for intracoronal bleaching of discoloured teeth. **International Endodontic Journal**, 35(5), 433-436.
- Attin, T., Paque, F., Ajam, F. and Lennon, A. M. (2003). Review of the current status of tooth whitening with the walking bleach technique. **International Endodontic Journal**, 36(5), 313-329.
- Betamar, N., Cardew, G. and van Noort, R. (2007). Influence of specimen designs on the microtensile bond strength to dentin. **The Journal of Adhesive Dentistry**, 9(2), 159-168.
- Bobotis, H. G., Anderson, R. W., Pashley, D. H. and Pantera, E. A. Jr. (1989). A microleakage study of temporary restorative materials used in endodontics. **Journal of Endodontics**, 15(12), 569-572.
- Bogue, E. A. (1872). Bleaching teeth. **Dental Cosmos**, 14(1), 1-3.
- Boksman, L., Jordan, R. E. and Skinner, D. H. (1983). Non-vital bleaching--internal and external. **Australian Dental Journal**, 28(3), 2149-152.
- Brackett, W. W., Tay, F. R., Brackett, M. G., Dib, A., Sword, R. J. and Pashley, D. H. (2007). The effect of chlorhexidine on dentin hybrid layers in vivo. **Operative Dentistry**, 32(2), 107-111.
- van der Burgt, T. P. and Plasschaert, A. J. (1985). Tooth discoloration induced by dental materials. **Oral Surgery, Oral Medicine, and Oral Pathology**, 60(6), 666-669.

- Burke, F.J.T., Combe, E.C. and Douglas, W.H. (2000). Dentine bonding system: I. Mode of action. **Dental Update**, 27, 85-93.
- Calt, S. and Serper, A. (2002). Time-dependent effects of EDTA on dentin structures. **Journal of Endodontics**, 28(1), 17-19.
- Casagrande, L., Brayner, R., Barata, J. S. and de Araujo, F. B. (2005). Cervical microleakage in composite restorations of primary teeth—in vitro study. **Journal of Dentistry**, 33, 627–632.
- de Castro, F. L., de Andrade, M. F., Duarte Junior, S. L., Vaz, L. G. and Ahid, F. J. (2003). Effect of 2% chlorhexidine on microtensile bond strength of composite to dentin. **The Journal of Adhesive Dentistry**, 5(2), 129-138.
- Chng, H. K., Palamara, J. E. and Messer, H. H. (2002). Effect of hydrogen peroxide and sodium perborate on biomechanical properties of human dentin. **Journal of Endodontics**, 28(2), 62-67.
- Cvek, M. and Lindvall, A.M. (1985). External root resorption following bleaching of pulpless teeth with oxygen peroxide. **Dental Traumatology**, 1(2), 56–60.
- Dahl, J. E. and Pallesen, U. (2003). Tooth bleaching--a critical review of the biological aspects. **Critical Reviews in Oral Biology and Medicine**, 14(4), 292-304.
- Davies, A. (1973). The mode of action of chlorhexidine. **Journal of Periodontal Research**, 8(12), 68–75.
- Deveaux, E., Hildelbert, P., Neut, C., Boniface, B. and Romond, C. (1992). Bacterial microleakage of Cavit, IRM, and TERM. **Oral Surgery, Oral Medicine, and Oral Pathology**, 74(5), 634-643.
- Ellias, E. and Sajjan, G. (2002). Effect of bleaching on microleakage of resin composite restorations in non-vital teeth: An in-vitro study. **Endodontology**, 14(1), 9-13.
- Fardal, O. and Turnbull, R.S. (1986). A review of the literature on use of chlorhexidine in dentistry. **The Journal of the American Dental Association**, 112(6), 863–869.
- Feinman, R., Madray, G. and Yarborough, D. (1991). Chemical, optical and physiologic mechanisms of bleaching products: a review. **Practical Periodontics and Aesthetic Dentistry**, 3(2), 32-37.

- Ferraz, C.C.R., Gomes, B.P.F.A., Zaia, A.A., Teixeira, F.B. and Souza-Filho, F.J. (2001). In vitro assessment of the antimicrobial action and the mechanical ability of chlorhexidine gel as an endodontic irrigant. **Journal of Endodontics**, 27, 452-455.
- Friedman, S., Rotstein, I., Libfeld, H., Stabholz, A. and Heling, I. (1988). Incidence of external root resorption and esthetic results in 58 bleached pulpless teeth. **Dental Traumatology**, 4(1), 23–26.
- Friedman, S. (1997). Internal bleaching: long-term outcomes and complications. **Journal of the American Dental Association**, 128, 51-55.
- Gale, M.S. and Darvell, B.W. (1999). Thermal cycling procedures for laboratory testing of dental restorations. **Journal of Dentistry**, 27(2), 105-108.
- Gjeramo, P. (1974). Chlorhexidine in dental practice. **Journal of Clinical Periodontology**, 1(3), 143–152.
- Greenstein, G., Bermant, C. and Jaffint, R. (1986). Chlorhexidine, an adjunct to periodontal therapy. **Journal of Periodontology**, 57(6), 370-376.
- Greenwall, L.H. (2001). The bleaching material. In L.H. Greenwall (Ed.), **Bleaching techniques in Restorative Dentistry : An Illustrated guide** (pp. 31-48). London: Dunitz Martin.
- Heling, I., Person, A. and Rotstein, I. (1995). Effect of bleaching agents on dentin permeability to *Streptococcus faecalis*. **Journal of Endodontics**, 21(11), 540-542.
- Hennessey, T. D. (1973), Some antibacterial properties of chlorhexidine. **Journal of Periodontal Research**, 8(12), 61–67.
- Hernandez, E. P., Botero, T. M., Mantellini, M. G., McDonald, N. J. and Nör, J. E. (2005). Effect of ProRoot[®] MTA mixed with chlorhexidine on apoptosis and cell cycle of fibroblasts and macrophages in vitro. **International Endodontic Journal**, 38(2), 137–143.



- Hiraishi, N., Yiu, C. K. Y., King, N. M. and Tay, F. R. (2010). Chlorhexidine release and antibacterial properties of chlorhexidine-incorporated polymethyl methacrylate-based resin cement. **Journal of Biomedical Materials Research Part B: Applied Biomaterials**, 94(1), 134-140.
- Holmstrup, G., Palm, A.M. and Lambjerg-Hansen, H. (1988). Bleaching of discolored root-filled teeth. **Endodontics and dental traumatology**, 4, 197-201.
- Hosoya, N., Cox, C. F., Arai, T., and Nakamura, J. (2000). The walking bleach procedure: An in vitro study to measure microleakage of five temporary sealing agents. **Journal of Endodontics**, 26(12), 716-718.
- ISO. (1994). Guidance on testing of adhesion to tooth structure. **International Organization for Standardization**. TR 11405, 1-14. Switzerland: Geneva.
- Jokinen, M.A. (1978). Prevention of postextraction bacteremia by local prophylaxis. **International Journal of Oral surgery**. 7(5), 450-452.
- Kim, S. T., Abbott, P. V. and McGinley, P. (2000). The effects of Ledermix paste on discolouration of mature teeth. **International Endodontic Journal**, 33(3), 227-232.
- Lewinstein, I., Hirschfeld, Z., Stabholz, A. and Rotstein, I. (1994). Effect of hydrogen peroxide and sodium perborate on the microhardness of human enamel and dentin. **Journal of Endodontics**, 20(2), 61-63.
- Liebenberg, W. H. (1997). Intracoronar lightening of discolored pulpless teeth: A modified walking bleach technique. **Quintessence International**, 28(12), 771-777.
- Lin, L. C., Pitts, D. L. and Burgess, L. W., Jr. (1988). An investigation into the feasibility of photobleaching tetracycline-stained teeth. **Journal of Endodontics**, 14(6), 293-299.
- Madison, S. and Walton, R. (1990). Cervical root resorption following bleaching of endodontically treated teeth. **Journal of Endodontics**, 16(12), 570-574.
- 3M ESPE. (n.d.). **Adper™ Single Bond Plus Adhesive**. Retrieved January 4, 2012, from http://multimedia.3m.com/mws/mediawebserver?mwsId=66666UuZjcFSLXTt4xMy4xTyEVuQEcuZgVs6EVs6E666666--&fn=sb_pl_tp.pdf

- Messing, J. J. (1971). Bleaching. **Journal of the British Endodontic Society**, 5(4), 84-85.
- Miyazaki, M., Sato, M., Onose, H. and Moore, B.K. (1998). Influence of thermal cycling on dentin bond strength of two-step bonding systems. **The American Journal of Dentistry**, 11, 118-122.
- Mjor, I.A. and Fejerskov, O. (1986). **Human oral embryology and histology** (pp. 90-101). Munksgaard; Copenhagen.
- Moreira, D. M., Almeida, J. F. A., Ferraz, C. C. R., de Almeida-Gomes, B. P. F., Line, S. R. P. and Zaia, A. A. (2009). Structural analysis of bovine root dentin after use of different endodontics auxiliary chemical substances. **Journal of Endodontics**, 35(7), 1023-1027.
- Munck, J., van Landuyt, K., Peumans, M., Poitevin, A., Lambrechts, P., Braem, M., et al. (2005). A critical review of the durability of adhesion to tooth Tissue: Methods and Results. **Journal of Dental Research**, 84(2), 118-132.
- Munck, J., Mine, A., Poitevin, A., van Ende, A. and van Meerbeek, G. (2009). **Abstract Testing bond strength. A review of the literature.** In: **Academy of Dental Materials Proceedings**; 29-31, Portland: Oregon USA.
- Munksgaard, E.C. and Asmussen, E. (1984). Bond strength between dentin and restorative resins mediated by mixtures of HEMA and glutaraldehyde. **Journal of Dental Research**, 63, 1087-1089.
- Nanci, A. (2003). Dentin-pulp complex. In A. Nanci (Ed.), **Ten Cate's Oral Histology: development, structure, and formation** (6th ed., pp. 192-239). St Louis: Mosby.
- Noort, R., Noroozi, S., Haward, I.C., Cardew, G. (1989). A critique of bond strength measurements. **Journal of Dentistry**, 17(2), 61-67.
- Oilo, G. (1993). Bond strength testing-what does it mean?. **International Dental Journal**, 43, 492-498.
- Oliveira, D. P., Gomes, B. P., Zaia, A. A., Souza-Filho, F. J. and Ferraz, C. C. (2006). In vitro assessment of a gel base containing 2% chlorhexidine as a sodium perborate's vehicle for intracoronary bleaching of discolored teeth. **Journal of Endodontics**, 32(7), 672-674.

- Oliveira, D. P. , Teixeira, E. C., Ferraz, C.C. and Teixeira, F. B. (2007). Effect of intracoronary bleaching agents on dentin microhardness. **Journal of Endodontics**, 33(4), 460-462.
- Oncag, O., Hosgor, M., Hilmioglu, S., Zekioglu, O., Eronat, C. and Burhanoglu, D. (2003). Comparison of antibacterial and toxic effects of various root canal irrigants. **International Endodontic Journal**, 36(12), 423–432.
- Pashley, D.H., Sano, H., Ciucchi, B., Yoshiyama, M. and Carvalho, R.M. (1995). Adhesion testing of dentin bonding agents: a review. **Dental Materials**, 11(2), 117-125.
- Pashley, D.H., Carvalho, R.M., Sano, H., Nakajima, M., Yoshiyama, M., Shono, Y., et al. (1999). The micro-tensile bond test: a review. **Journal of Adhesive Dentistry**, 1, 299-309.
- Pécora, J.D., Cruzfilho, A.M., Sousaneto, M.D. and Silva, R.G. (1994). In vitro action of various bleaching agents on the microhardness of human dentin. **Brazilian dental journal**, 5(2) 129-134.
- Perdigao, J., Denehy, G. E. and Swift, E. J., Jr. (1994). Effects of chlorhexidine on dentin surfaces and shear bond strengths. **American Journal of Dentistry**, 7(2), 81-84.
- Pires, J. A., Cvitko, E., Denehy, G. E. and Swift, E. J., Jr. (1993). Effects of curing tip distance on light intensity and composite resin microhardness. **Quintessence International**, 24(7), 517-521.
- Plotino, G., Buono, L., Grande, N. M., Pameijer, C. H. and Somma, F. (2008). Nonvital tooth bleaching: a review of the literature and clinical procedures. **Journal of Endodontics**, 34(4), 394-407.
- Powers, J. M. and Sakaguchi, R. L. (2006). **Craig's Restorative Dental Materials** (12th ed.). Pennsylvania: Mosby.
- Rolla, G., Loe, H. and Schiott, C.R. (1970). The affinity of chlorhexidine for hydroxyapatite and salivary mucins. **Journal of Periodontal Research**, 5(2), 90–95.

- Rotstein, I., Friedman, S., Mor, C., Katznelson, J., Sommer, M. and Bab, I. (1991). Histological characterization of bleaching-induced external root resorption in dogs. **Journal of Endodontics**, 17(9), 436-441.
- Rotstein, I., Lehr, Z. and Gedalia, I. (1992). Effect of bleaching agents on inorganic components of human dentin and cementum. **Journal of Endodontics**, 18(6), 290-293.
- Rotstein, I., Dankner, E., Goldman, A., Heling, I., Stabholz, A. and Zalkind, M. (1996). Histochemical analysis of dental hard tissues following bleaching. **Journal of Endodontics**, 22(1), 23-25.
- Rotstein, I. (2002). Tooth discoloration and bleaching. In J. I. Ingle and L. K. Bakland (Eds.), **Endodontics** (5th ed., p. 851). London: BC Decker.
- Salvas, J. C. (1938). Perborate as a bleaching agent. **Journal of American Dental Association**, 25(2), 324-327.
- Santos, J. N., Carrilho, M. R., de Goes, M. F., Zaia, A. A., Gomes, B. P., Souza-Filho, F. J.,5 et al. (2006). Effect of chemical irrigants on the bond strength of a self-etching adhesive to pulp chamber dentin. **Journal of Endodontics**, 32(11), 1088-1090.
- Sayin, T.C., Serper, A., Cehreli, Z.C. and Kalayci, S. (2007). Calcium loss from root canal dentin following EDTA, EGTA, EDTAC, and tetracycline-HCl treatment with or without subsequent NaOCl irrigation. **Journal of Endodontics**, 33, 581-584.
- Scientific Committee on Consumer Products. (2005). **Hydrogen Peroxide in Tooth Whitening Products**, Retrieved January 4, 2012, from http://ec.europa.eu/health/ph_risk/committees/04_sccp/docs/sccp_o_022.pdf
- Senawongse, P. (2002). Light cure unit. **Journal of Thai Operative Dentistry Society**, 3(1), 26-37.
- Settembrini, L., Gultz, J., Kaim, J. and Scherer, W. (1997). A technique for bleaching nonvital teeth: inside/outside bleaching. **The Journal of the American Dental Association**, 128(9), 1283-1284.

- Shinohara, M.S., Peris, A.R., Pimenta, L.A. and Ambrosano, G.M. (2005). Shear bond strength evaluation of composite resin on enamel and dentin after nonvital bleaching. **Journal of Esthetic and Restorative Dentistry**, 17, 22-29.
- Spasser, H. F. (1961). A simple bleaching technique using sodium perborate. **New York State Dental Journal**, 27(8), 332-334.
- Spiechowicz, E., Santarpia, R.P. 3rd, Pollock, J.J. and Renner, R.P. (1990). In vitro study on the inhibiting effect of different agents on the growth of *Candida albicans* on acrylic resin surfaces. **Quintessence International**, 21(1), 35-40.
- Spyrides, G.M., Perdigao, J., Pagani, C., Araujo, M.A. and Spyrides, S.M. (2000). Effect of whitening agents on dentine bonding. **Journal of Esthetic Dentistry**, 12(5), 267-270.
- Sudsangiam, S. and van Noort, R. (1999). Do dentin bond strength tests serve a useful purpose?. **The Journal of Adhesive Dentistry**, 1(1), 57-67.
- Teixeira, E.C.N., Turssi, C.P., Hara, A.T. and Serra, M.C. (2004). Influence of post-bleaching time intervals on dentin bond strength. **Brazilian Oral Research**, 18(1), 75-9.
- Timpawat, S., Nipattamanon, C., Kijssamanmith, K. and Messer, H.H. (2005). Effect of bleaching agents on bonding to pulp chamber dentine. **International Endodontic Journal**, 38(4), 211-217.
- Tjernberg, A. (1979). Influence of oral hygiene measures on the development of alveolitis sicca dolorosa after surgical removal of mandibular third molars, International. **Journal of Oral and Maxillofacial Surgery**, 8(6), 430-434.
- Torneck, C. D., Titley, K. C., Smith, D. C. and Adibfar, A. (1990). The influence of time of hydrogen peroxide exposure on the adhesion of composite resin to bleached bovine enamel. **Journal of Endodontics**, 16(3), 123-128.
- Torneck, C. D., Titley, K. C., Smith, D. C. and Adibfar, A. (1991). Effect of water leaching on the adhesion of composite resin to bleached and unbleached bovine enamel. **Journal of Endodontics**, 17(4), 156-160.



- Tyas, M.J. and Burrow, M.F. (2004). Adhesive restorative materials: A review. **Australian Dental Journal**, 49(3), 112-121.
- Vianna, M.E., Gomes, B.P., Berber, V.B., Zaia, A.A., Ferraz, C.C. and de Souza-Filho, F.J. (2004). In vitro evaluation of the antimicrobial activity of chlorhexidine and sodium hypochlorite. **Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology**, 97(1), 79-84.
- Waite, R. M., Carnes, D. L. Jr. and Walker, W. A. (1998). Microleakage of TERM used with sodium perborate/water and sodium perborate/superoxol in the "walking bleach" technique. **Journal of Endodontics**, 24(10), 648-650.
- Watanabe, I. and Nakabayashi, N. (1994). Measurement methods for adhesion to dentine: the current status in Japan. **Journal of Dentistry**, 22, 67-72.
- Whiteteethsolution. (n.d.). **Opalescence PF Teeth Whitening System 10% 15% 20% 35%**. Retrieved January 4, 2012, from <http://www.whiteteethsolution.com/opalescence-teeth-whitening.html>
- Wikipedia. (n.d.). Hydrogen peroxide. **Wikipedia**. Retrieved November 15, 2011, from http://en.wikipedia.org/wiki/Hydrogen_peroxide
- Wikipedia. (n.d.). Sodium perborate. **Wikipedia**. Retrieved November 15, 2011, from http://en.wikipedia.org/wiki/Sodium_perborate
- Yamada, R. S., Armas, A., Goldman, M. and Lin, P. S. (1983). A scanning electron microscopic comparison of a high volume final flush with several irrigating solutions: Part 3. **Journal of Endodontics**, 9(4), 137-142.
- Yesilsoy, C., Whitaker, E., Cleveland, D., Phillips, E. and Trope, M. (1995). Antimicrobial and toxic effects of established and potential root canal irrigants. **Journal of Endodontics**, 21(10), 513-515.
- Yoonis, E., Kukletová, M. and Matoušek, A. (2009). SEM study on dentin/resin interface in primary teeth. **International Poster Journal of Dentistry and Oral Medicine**, 11(4), 470.

ภาคผนวก

ตาราง 3 แสดงค่ากำลังแรงยึดแบบดึงระดับจุลภาคระหว่างวัสดุอุดเรซินคอมโพสิตกับเนื้อฟันที่ผ่านการฟอกสีด้วยสารฟอกสีชนิดต่างๆ (MPa)

ค่ากำลังแรงยึดแบบดึงระดับจุลภาคของฟอกสี (MPa)			
W	SP+W	SP+30%H2O2	SP+2%CHX
32.9537	28.6871	25.9274	16.6319
14.6594	16.6403	21.3685	18.5841
21.4663	29.8123	16.6667	26.118
35.8651	22.8715	9.3903	17.2009
28.3507	25.9184	17.7691	23.0776
24.5835	11.4606	32.2704	14.4654
36.8014	23.2803	14.0351	11.5118
13.0952	24.1273	21.3287	21.7424
17.4442	29.7805	17.3143	17.2021
16.6786	18.6063	13.8656	14.2807
34.3301	14.2262	20.4026	11.563
28.7381	12.0635	27.9247	29.5916
23.501	24.5794	23.4256	22.8155
33.9336	12.636	20.9019	26.3327
18.9258	12.4667	31.88	23.5751
32.7233	14.8759	26.6278	25.3252
17.1259	14.2588	26.2773	12.2334
23.9567	16.4828	19.6748	13.6925
18.1059	26.6854	28.6058	30.5723
27.4274	30.2914	13.8678	32.129
28.8166	15.7282	17.0021	29.2499
15.5279	12.9007	15.0515	22.819
19.9231	21.7651	17.3908	15.2184
21.3922	17.1287	16.625	19.1745
20.6336	19.2814	11.2275	26.7232
21.4646	24.8332	10.2849	14.7329
34.3894	19.6832	10.6892	13.8769
11.3506	25.2262	21.3306	8.2736
21.2359	21.8682	12.0296	15.73
33.5052	19.1859	8.7759	16.6319

ตาราง 4 ตารางเปรียบเทียบความแตกต่างของค่ากำลังแรงยึดแบบดึงระดับจุลภาค
ระหว่างกลุ่มการทดลอง

ANOVA						
TENSILE						
		Sum of Squares	df	Mean Square	F	Sig.
Between Groups		515.378	3	171.793	3.858	.011
Within Groups		5165.317	116	44.529		
Total		5680.695	119			

Multiple Comparisons						
Dependent Variable: TENSILE						
Scheffe						
(I) BLEAC	(J) BLEACH	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
W	SP+W	4.051780	1.7229547	.143	-.836200	8.939760
	SP+30%H2O2	5.299114(*)	1.7229547	.028	.411134	10.187094
	SP+2%CHX	4.678228	1.7229547	.066	-.209752	9.566208
SP+W	W	-4.051780	1.7229547	.143	-8.939760	.836200
	SP+30%H2O2	1.247334	1.7229547	.913	-3.640646	6.135314
	SP+2%CHX	.626448	1.7229547	.988	-4.261532	5.514428
SP+30%H2O2	W	-5.299114(*)	1.7229547	.028	-10.187094	-.411134
	SP+W	-1.247334	1.7229547	.913	-6.135314	3.640646
	SP+2%CHX	-.620886	1.7229547	.988	-5.508866	4.267094
SP+2%CHX	W	-4.678228	1.7229547	.066	-9.566208	.209752
	SP+W	-.626448	1.7229547	.988	-5.514428	4.261532
	SP+30%H2O2	.620886	1.7229547	.988	-4.267094	5.508866

* The mean difference is significant at the .05 level.

ประวัติผู้วิจัย



ประวัติผู้วิจัย

ชื่อ – ชื่อสกุล	กรรณิกา บุรณะเกียรติพันธ์
วัน เดือน ปี เกิด	15 มิถุนายน 2522
ที่อยู่ปัจจุบัน	4 หมู่ 2 ตำบลปลักแรด อำเภอบางระกำ จังหวัดพิษณุโลก 65140
ที่ทำงานปัจจุบัน	โรงพยาบาลบางกระทุ่ม 100 หมู่ 11 ตำบลไผ่ล้อม อำเภอบางกระทุ่ม จังหวัดพิษณุโลก 65110
ตำแหน่งหน้าที่ปัจจุบัน	ทันตแพทย์ชำนาญการ
ประสบการณ์การทำงาน	
พ.ศ. 2549	ทันตแพทย์ 5 ฝ่ายสาธารณสุข โรงพยาบาลบางกระทุ่ม จังหวัดพิษณุโลก
พ.ศ. 2548	ทันตแพทย์ 4 ฝ่ายสาธารณสุข โรงพยาบาลทุ่งเสลี่ยม จังหวัดสุโขทัย
พ.ศ. 2546	ทันตแพทย์ 4 ฝ่ายสาธารณสุข โรงพยาบาลสหสันธุ์ จังหวัดกาฬสินธุ์
ประวัติการศึกษา	
พ.ศ. 2546	ทบ. (ทันตแพทยศาสตร์) มหาวิทยาลัยนเรศวร

