

Assoc.Prof.Dr. Siriruk Nakornchai

Title Name	Mr. / <u>Mrs.</u> / Miss
Name	Siriruk Nakornchai
Academic position	Associate Professor
Faculty/Institute/College	Department of Pediatric Dentistry Faculty of Dentistry Mahidol University
Address	Tel. 02 – 200 -7821-18 E-mail: siriruk.nak@mahidol.ac.th

Academic Qualifications

Degree	Degree Name	Institute	Year
Ph.D.	Oral Biology	Mahidol University	2002
M.Sc.	Advanced Educational Program	University of Minnesota USA	1994
Certificate	Certificate in Pediatric Dentistry	University of Minnesota USA	1994
Higher Grade. Dip. in Clinical Science	Pediatric Dentistry	Mahidol University	1984
D.D.S.	-	Chulalongkorn University	1982
B.Sc.	-	Chulalongkorn University	1980

Professional Qualifications

Degree	Degree Name	Institute	Year
Diplomate, American Board	Pediatric Dentistry	American Board, USA.	1998
Diplomate, Thai Board	Oral Pediatric Dentistry	Thai Dental Council	1997

Interesting Research Topics or Specialties

1. Dental caries
2. Caries Prevention
3. Fluoride
4. Pulp treatment in primary teeth

Research Experiences /Publications:

1. Nagsuwanchart P, **Nakornchai S**, Thaweboon S, Surarit R. Mogroside, palatinose, erythritol, and xylitol differentially affect dental plaque pH in caries-active and caries-free children: An in vitro study. *Pediatric Dent J.* 2021; <https://doi.org/10.1016/j.pdj.2021.08.004>
2. Horsophonphong S, Sritanaudomchai H, **Nakornchai S**, Kitkumthorn N, Surarit R. Odontogenic gene expression profile of human dental pulp-derived cells under high glucose influence: a microarray analysis *J Appl Oral Sci.* 2021;29:e20201074.
3. Kasemkhun P, **Nakornchai S**, Phonghanyudh A, Srimaneekarn N. The efficacy of dental sealant used with bonding agent on occlusal caries (ICDAS 2-4): A 24-month randomized clinical trial. *Int J Paediatr Dent.* 2020 Nov 21. doi: 10.1111/ipd.12758.
4. Horsophonphong S, Kitkumthorn N, Sritanaudomchai H, **Nakornchai S**, Surarit R. High Glucose Affects Proliferation, Reactive Oxygen Species and Mineralization of human Dental Pulp cells. *Brazilian Dental Journal.*2020; 31(3):298-303
5. ศิริรักษ์ นครชัย ฟลูออไรด์ ใน คณะกรรมการและคณะทำงานปรับปรุงข้อกำหนดสารอาหารที่ควรได้รับประจำวันสำหรับคนไทย: ปริมาณสารอาหารอ้างอิงที่ควรได้รับประจำวันสำหรับคนไทย พ.ศ. 2563 (Dietary Reference Intake for Thais 2020) สำนักโภชนาการ กรมอนามัย กระทรวงสาธารณสุข ISBN 978-616-11-4234-6 หน้า 339-345.
6. Areethamsirkul A, **Nakornchai S**, Apipan B. Efficacy of Articaine Infiltration for Pulp Treatment in Mandibular Primary Molars: A Randomized Split-mouth Clinical Trial. *Journal of the Dental Association of Thailand* 2019; 69 (3): 361-8.
7. Siripokkapat K, **Nakornchai S**, Vichayanrat T. Comparison Oof Giomer and Fluoride Releasing Resin Sealants in Caries Prevention Among Primary Molars. *Southeast Asian J Trop Med Public Health* 2018; 49 (3): 528-36.
8. Banditsing P, **Nakornchai S**, Owattanapanich D. Scanning Electron Microscopic Study of the Cleaning Ability of Various Root Canal Irrigants in Primary Teeth. *J dent assoc thai* 2018; 68(3) 302-8.
9. **Nakornchai S**, Horsophonphong S, Sanguansin S, Surarit R. Estimation of Urinary Fluoride Excretion in Infants and Toddlers After Brushing with Fluoride Toothpaste. *Southeast Asian J Trop Med Public Health* 2018; 49 (5): 909-915.

10. Phantumvanit P, Makino Y, Ogawa H, Rugg Gun A, Moynihan P, Erik Petersen P, Evans W, Alberto Feldens C, Lo E, H. Khoshnevisan M, Baez R, Varenne B, Vichayanrat T, Songpaisan Y, Woodward M, **Nakornchai S**, Ungchusak C. WHO Global Consultation on Public Health Intervention against Early Childhood Caries. *Community Dent Oral Epidemiol.*2018;46:280-7.
11. Ingsakulrungruang P, **Nakornchai S**, Tuongratanaphan S. Distribution and Factors Influencing Turnover Intention of Dental Specialists in Thailand. *J dent assoc thai* 2017; 67(3) 344-59.
12. Phranet W, **Nakornchai S**, Surarit R, Vichayanrat T. Salivary and Plaque Fluoride Level after MU Caries Preventive Program in Day Centers. *J dent assoc thai* 2017; 67(4) 360-9
13. **Nakornchai S.**, Hopattaraput P, Vichayanrat T., Prevalence, severity and factors associated with dental fluorosis among children Aged 8-10 years in Bangkok, Thailand. *Southeast Asian J Trop Med Public Health* 2016: 47(5) 1105-1111.
14. Phonghanyuhd, A, Boonyakiati O, **Nakornchai S**. Caries Preventive Effect of Glass Ionomer Sealant in Primary Molar. *Int J Oral Health* 2015; 11; 8-16
15. Dechachart, C., Phonghanyuhd, A., Harnirattisai, C., **Nakornchai S**. Effects of glass ionomer sealant on occlusal surface to the changes of proximal enamel lesion. *Srinakharinwinrot University Dental Journal.* 2014; V.7 (Suppl) Pages: 43-50.
16. Sri-Aularawat W, **Nakornchai S**, Thaweboon S, Korsuwannawong S: Effect of Tricalcium Phosphate, Casein Phosphopeptide – Amorphous Calcium Phosphate and Sodium Fluoride Products on Demineralization of Artificial Advanced Enamel Lesions *IJOR* 2012:3; e2
17. Senesombath S, **Nakornchai S**, Banditsing P, Lexomboon D; Early childhood Caries and related factors in Vientiane Capital, Lao *PDR Southeast Asian J Trop Med Public Health*2010; 41(3):717-25.
18. **Nakornchai S**, Banditsing P, Visetratana N: Clinical evaluation of 3Mix and Vitapex as treatment options for pulpally involved primary molars.*Int J Paediatr Dent*2010; 20(3):214-21
19. Thaweboon S, **Nakornchai S**, Miyakae Y, Yanakisawa T, Thaweboon B, Soo-ampon and Lexomboon D: Remineralization of Enamel Subsurface Lesions by Xylitol Chewing gum containing funoran and calcium hydrogenphosphate. *Southeast Asian J Trop Med Public Health* 2009; 40:346-53.

20. Danchaivijitr A, **Nakornchai S**, Phonghanyudh A, Surarit R, Thaweeboon B, Leelataweewud P, Kiatprajak C: The effect of milk formula on dental plaque pH change. *Int J of Pediatr Dent* 2006; 16:192-8.
21. **Nakornchai S**, Harnirattisai C, Surarit R, Thiradilok S.: Microtensile bond strength of a total-etching versus self-etching adhesive to caries-affected and intact dentin in primary teeth. *JADA* 2005; 136:477-83.
22. **Nakornchai S**, Atsawasuwat P, Kitamura E, Surarit R, Yamauchi M. Partial biochemical characterization of collagen in carious dentin of human primary teeth. *Arch Oral Biol* 2004; 49:263-7
23. **Nakornchai S**, Chaweekulrat W, Keingthong P. The retention of local made sealant (a Clinical Study:36-month follow-up). *J Dent Assoc Thai* 2003; 53:71-8.
24. Leelataweewud P, Phonghanyudh A, **Nakornchai S**, SanongkhunK: Clinical results of preventive resin restoration placed in Pediatric dental clinic, Mahidol University. *Mahidol Dent J*2002; 22:91-100
25. **Nakornchai S**, Chaweekulrat W, Keingthong P. The retention of local made sealant (Clinical Study: 12month follow-up) *J Dent Assoc Thai* 2001; 51:22-8.
26. Pattarakiatpong J, **Nakornchai S**, Harnirattisai C.: Shear bond strength of glass ionomer sealant to various enamel treatments. *J Dent Assoc Thai* 2000; 50:101-6.
27. Chuckpaiwong S, **Nakornchai S**, Surarit R, Soo-ampon S, Kasetsuwan R: Fluoride in water consumed by children in remote areas of Thailand. *Southeast Asian J Trop Med Public Health* 2000; 31: 319-24.
28. Chuckpaiwong S, **Nakornchai S**, Surarit R, Soo-ampon S: Fluoride analysis of human milk in remote areas of Thailand. *Southeast Asian J Trop Med Public Health* 2000; 31: 583-6.
29. Chuckpaiwong S, **Nakornchai S**, Surarit R, Soo-ampon S: Dietary fluoride intake of children ages 3-7 years in remote areas of Thailand. *Southeast Asian J Trop Med Public Health* 2000; 31: 579-582.
30. **Nakornchai S**, Surarit R: The effect of various topical fluoride preparations on caries like lesion. *J DentAssoc Thai* 1999; 49: 295-9.
31. TossaborvornR, Pachimsawat P, **Nakornchai S**, Prasitsilp M, Harnirattisai C. Comparison of shear bond strength between local-made and imported sealants. *J Dent Assoc Thai*. 1999; 49:1-9.

32. **Nakornchai S**, Surarit R, Sirikul V: Fluoride content of ready to feed milk. J Dent Assoc Thai 1998; 48: 350-5
33. Medhanavyn P, **Nakornchai S**, Surarit R. Free fluoride content of ready- to-feed milk. J Dent Assoc Thai 1997; 47: 255-9.
34. **Nakornchai S**: Glass ionomer sealant. J Dent Assoc Thai 1997; 47:303-9.
35. **Nakornchai S**, Triratana T: Dental care of children with hemophilia. J Dent Assoc Thai 1990; 40: 39-46
36. **Nakornchai S**: A comparison of retention in two types of sealant. Mahiddol Dent J 1989;9: 85-9.

Research Presentation and abstracts

1. **Nakornchai S**, Sri- aularawat W, Limvirat P, Korsuwannawong S: Effect of fluoride plus amorphous calcium phosphate on artificial enamel lesion. The 7 th Conference of Pediatric Dentistry Association of Asia 2010, Philippine.
2. **Nakornchai S**, Banditsing P, Soo-ampon S: Water fluoride level in Border Patrol Police Schools of Thailand. The 7 th Conference of Pediatric Dentistry Association of Asia 2010, Philippine.
3. Phuengphaingam P, Banditsing P, **Nakornchai S**; Root canal treatment with Zinc oxide-eugenol VS Vitapex in primary molar teeth. The Fifth International Dental Collaboration of the Mekong River Region Congress, 2009 Hanoi, Vietnam.
4. **Nakornchai S**, Banditsing P, Leelataweewud P, Rukthamsa-ngob C; An aggressive self-etching adhesive for sealant application: 24 month follow-up. The Fifth International Dental Collaboration of the Mekong River Region Congress, 2009 Hanoi, Vietnam.
5. **Nakornchai S**, S. Sanguansin, P. Siengwattana, Y. Sappipattana, W. Prasansang, S. Thamsuepsilp, and S. Chanrueangwanit. Fluoride in urine of young children using fluoride toothpaste, 2009.
6. Boonpen P, **Nakornchai S**, Surarit R, Bunditsing P. Plaque and Salivary Fluoride Levels after Application of Fluoride Varnishes. The 6 th Conference of Pediatric Dentistry Association of Asia 2008, Malaysia.

7. Bunditsing P, **Nakornchai S**. Root canal filling with Vitapex in immature primary tooth: A case report. The 6 th Conference of Pediatric Dentistry Association of Asia 2008, Malaysia.
8. **Nakornchai S**, Boonpen P, Surarit R, Bunditsing P: Fluoride Releasing of Experimental Formula-2 Fluoride Varnish. The 6 th Conference of Pediatric Dentistry Association of Asia 2008, Malaysia.
9. **Nakornchai S**, Bunditsing P, Leelataweewud P, Rukthamsa-ngob C. Clinical Trial of a Self-etching Adhesive for Preventive Resin Restoration IADR/SEA, SEAADE2008, Philippine.
10. **Nakornchai S**, Bunditsing P, Leelataweewud P, C Rukthamsa-ngob. Clinical Trial of a Self-Etching Adhesive for Sealant Application: 12 Month Follow-up. The 5 th Conference of Pediatric Dentistry Association of Asia 2006, Taiwan; 065, OBP10.
11. Vichayanrat S, **Nakornchai S**, Thaweeboon S, Sanguansin S, Srisuparbh D, Leelataweewud P, Phonghanyudh A: Helicobacter pylori and Streptococcus pyogenes in dental plaque of children. IADR/SEA, SEAADE2005; IP-078.
12. **Nakornchai S**, Thaweeboon S, Chaipiyawutirux S, Wattanapan P, Chutsunthorn K, Phurithanasarn S: Effect of chewing gum containing different sugars on dental plaque pH. Dentistry for The Nano-Informatic-Genomic-Technology Era. 2005; 183. P-45.
13. Surarit R, **Nakornchai S**, Chuckpawong S. and Thiradilok S: Fluoride Content of Food and Water in Remote Area of Thailand. The International Dental Congress of the Mekong River Region. 2004; 53. P9.
14. **Nakornchai S**, Surarit R, Yamauchi M: Collagen cross-linking in carious dentin of permanent teeth. IADR/SEA, SEAADE2004; 67. IO-41.
15. Kul-Ongkananon A, **Nakornchai S**, Leelataweewud P, Phonghanyudh A, Kiatprajak C: Adhesion of self-etching adhesive systems to primary tooth enamel. IADR/SEA, SEAADE2004; 118. IP-085.
16. Danchaivijitr A, **Nakornchai S**, Phonghanyudh A, Surarit R, Thaweeboon B, Leelataweewud P, Kiatprajak C: The effect of milk formula on dental plaque pH change. The International Dental Congress of the Mekong River Region. 2004; 56. P14.
17. Chairatanatrai O, Vangveeravong M, Tangkrisanakajorn P, **Nakornchai S**, Leelatweewud P, Phonghanyudh A. Oral health status in asthmatic children The 4th Conference of Pediatric Dentistry Association of Asia. 2004; 132. P-115

18. Thaweboon S, Thaweboon B, **Nakornchai S**, Soo-ampon S, Chuckpaiwong S. Level of mutans streptococci in mothers and their children in the remote area of Thailand. The 4th Conference of Pediatric Dentistry Association of Asia. 2004; 124.P-99.
19. Sathaworn W, **Nakornchai S**, Phonghanyudh A, Leelataweewud P, Kiatprajak C. Feeding and oral hygiene practices in caries-free preschool children. The 4th Conference of Pediatric Dentistry Association of Asia. 2004; 77.P-6.
20. **Nakornchai S**, Erickson PR, Douglas WH, Pintado M.: Sealant repair of defective posterior composites: Improve flexure strength of tooth. J Dent Res 1994; 73:180.
21. Pattarakiatpong J, **Nakornchai S**, Harnirattisai C: Shear bond strength of glass ionomer sealant to various enamel treatments. J Dent Res 1997; 76:378.