

Curriculum Vitae

Name: Wichai Aekplakorn

Nationality: Thai

Position: Professor

Institute: Department of Community Medicine, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Rama 6 Rd. Rajdevi, Bangkok 10400

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Education:

Education	Schools	Year	Degree
Medical Doctor	Siriraj Hospital, Mahidol University	1982	M.D.
Preventive Medicine	Thai Medical council	1988	Board of preventive Medicine, Clinical Preventive Medicine
General practice	Thai Medical council	1989	Board of General practice
Epidemiology	Division of Epidemiology	1991	Certificate in Field Epidemiology Training program
Epidemiology	Thai Medical council		Board of Preventive Medicine, Epidemiology
Occupational Medicine	National University of Singapore	1992	Master of Medicine
Occupational Medicine	Thai Medical council		Board of Preventive Medicine, Occupational Medicine
Family Medicine	Thai Medical council	2003	Board of Family Medicine practice
Epidemiology	School of Public Health, University of North Carolina-Chapel Hill, USA	1998- 2001	Ph.D.

Work Record:

Dates	Position	Organization
1982-1985	Physician	Wangnamyen Community hospital
1986-1988	Director	Wangnamyen Community hospital
1989-1991	Physician, medical epidemiologist	Division of Epidemiology
1992-1996	Chief , Occupational and Environmental section	Division of Epidemiology
1997-2002	Assistant Professor	Community Medicine Center, Faculty of Medicine, Ramathibodi hospital Mahidol University
2004-2010	Associate Professor	
2010	Professor	
2011-present	Professor, Head of the Department of Community Medicine	Faculty of Medicine, Ramathibodi hospital, Mahidol University

Experience:

- Survey of smoking prevalence among children aged < 10 yr., Thailand 1991, co-investigator

- Study of Adverse health effect from chemical explosion in Port Authority of Thailand 1991, Principal investigator
- Study of comparison of respiratory health between traffic and non-traffic policemen in Bangkok, Thailand 1991, Principal investigator
- Study of Blood lead among school children in Bangkok, Thailand 1993, co-investigator
- Study of prevalence of arsenic poisoning in Ronphiboon, Nakornsrihammarat, Thailand 1994, co-investigator
- Study of health effects from exposure to air pollution generated by lignite coal power plant in Lampang province, Thailand 1992- present, co-investigator
- Survey of social and health problem of construction workers in Lamchabang municipality, Chonburi province 1995, Principal investigator
- Prevalence survey of seat belt use in 4 cities, Thailand 1996, Principal investigator
- Study of silicosis in a brick manufacturing factory 1995, Principal investigator
- Study the Situation of diagnosis of occupational disease 1999, Principal investigator
- Study of Assessment of capacity for cardiovascular prevention and control in Supanburi, Thailand 2002-3, Principal investigator
- Study of prevalence of smoking among school children, Thailand, 2003, co-investigator
- Study of pattern of activity at floor of Thai adults, 2003, co-investigator
- Study of acute effect of air pollution among children and adults in Bangkok, 2002, co-investigator
- Review “ Situation of cardiovascular diseases and research direction in Thailand” 2003
- Research management, a program on control of cardiovascular disease and diabetes, National Health Foundation and Thailand Research Fund. Research manager 2004-2007.
- Study of health assessment of health care workers in Ramathibodi hospital , 2005-present, Principal investigator
- Study of Coronary heart disease risk score in a cohort study of Electric Generating Authority of Thailand. 2005-present. Co-investigator
- Study of diabetes risk score in a cohort study of Electric Generating Authority of Thailand. 2005-present. Principal-investigator
- Research manager for cardiovascular disease and diabetes for the National Health Foundation, Thailand. 2004-2005.
- Mortality study of Individuals in the National Health Examination Survey III 2009- present, principal investigator.
- Thai Diabetes Prevention Program, A community-based intervention study. Co-principal investigator. 2013- 2017.
- National Health Examination Survey IV- VI, Thailand 2006- present, principal investigator.

Publication:

1. NCD Risk Factor Collaboration (NCD-RisC). Repositioning of the global epicentre of non-optimal cholesterol. *Nature*. 2020 Jun;582(7810):73-77. doi: 10.1038/s41586-020-2338-1. Epub 2020 Jun 3. PMID: 32494083
2. P Boongird, P Chamnan, S Laptikultham, P Krittayapooitpot, W Nitiyanant, W Aekplakorn, A Mangklabruks, HCUR investigators. Dose-response Relationship Between Physical Exercise and Risk of Physician-Diagnosed Dementia in 206 073 Thai Community-Dwelling Men and Women: HCUR Study. *Eur J Neurol*. 2020 May 22. doi: 10.1111/ene.14354. Online ahead of print. PMID: 32441421
3. Chailurkit LO, Aekplakorn W, Paiyabhroma N, Ongphiphadhanakul B. Global 11 Beta-Hydroxysteroid Dehydrogenase Activity Assessed by the Circulating Cortisol to Cortisone Ratio Is Associated With Features of Metabolic Syndrome. *Metab Syndr Relat Disord*. 2020 Apr 30. doi: 10.1089/met.2020.0013. Online ahead of print. PMID: 32357081

4. Satapornpong P, Jinda P, Jantararoungtong T, Koomdee N, Chaichan C, Pratoomwun J, Na Nakorn C, Aekplakorn W, Wilantho A, Ngamphiw C, Tongsimma S, Sukasem C. Genetic Diversity of HLA Class I and Class II Alleles in Thai Populations: Contribution to Genotype-Guided Therapeutics. *Front Pharmacol.* 2020 Feb 27;11:78.
5. Sukrat B, Okascharoen C, Rattanasiri S, Aekplakorn W, Arunakul J, Saejeng K, Böhning D, Thakkinstian A. Estimation of the adolescent pregnancy rate in Thailand 2008-2013: an application of capture-recapture method. *BMC Pregnancy Childbirth.* 2020 Feb 19;20(1):120.
6. Yan LD, Hanvoravongchai P, Aekplakorn W, Chariyalertsak S, Kessomboon P, Assanangkornchai S, Taneepanichskul S, Neelapaichit N, Stokes AC. Universal coverage but unmet need: National and regional estimates of attrition across the diabetes care continuum in Thailand. *PLoS One.* 2020 Jan 15;15(1):e0226286. doi: 10.1371/journal.pone.0226286.
7. Sheppard JP, Tucker KL, Davison WJ, Stevens R, Aekplakorn W, Bosworth HB, Bove A, Earle K, Godwin M, Green BB, Hebert P, Heneghan C, Hill N, Hobbs FDR, Kantola I, Kerry SM, Leiva A, Magid DJ, Mant J, Margolis KL, McKinstry B, McLaughlin MA, McNamara K, Omboni S, Ogedegbe O, Parati G, Varis J, Verberk WJ, Wakefield BJ, McManus RJ. Self-monitoring of blood pressure in patients with hypertension related multi-morbidity: Systematic review and individual patient data meta-analysis. *Am J Hypertens.* 2019 Nov 15. pii: hpz182. doi: 10.1093/ajh/hpz182. [Epub ahead of print] PubMed PMID: 31730171.
8. Jensen HT, Keogh-Brown MR, Shankar B, Aekplakorn W, Basu S, Cuevas S, Dangour AD, Gheewala SH, Green R, Joy E, Rojroongwasinkul N, Thaiprasert N, Smith RD. International trade, dietary change, and cardiovascular disease health outcomes: Import tariff reform using an integrated macroeconomic, environmental and health modelling framework for Thailand. *SSM Popul Health.* 2019 Jul 31;9:100435. doi:10.1016/j.ssmph.2019.100435. eCollection 2019 Dec. PubMed PMID: 31649995; PubMed Central PMCID: PMC6804685.
9. Patanavanich R, Aekplakorn W, Suriyawongpaisal P. Trend analysis of smoking-attributable hospitalizations in Thailand, 2007-2014. *Tob Induc Dis.* 2018 Nov 5;16:52. doi: 10.18332/tid/98913. eCollection 2018. PubMed PMID: 31516449; PubMed Central PMCID: PMC6659483.
10. Keogh-Brown MR, Jensen HT, Basu S, Aekplakorn W, Cuevas S, Dangour AD, Gheewala SH, Green R, Joy EJ, Rojroongwasinkul N, Thaiprasert N, Shankar B, Smith RD. Evidence on the magnitude of the economic, health and population effects of palm cooking oil consumption: an integrated modelling approach with Thailand as a case study. *Popul Health Metr.* 2019 Aug 16;17(1):12. doi: 10.1186/s12963-019-0191-y. PubMed PMID: 31420043; PubMed Central PMCID: PMC6697922.
11. NCD Risk Factor Collaboration . National trends in total cholesterol obscure heterogeneous changes in HDL and non-HDL cholesterol and total-to-HDL cholesterol ratio: a pooled analysis of 458 population-based studies in Asian and Western countries. *Int J Epidemiol.* 2019 Jul 18. pii: dyz099. doi: 10.1093/ije/dyz099. [Epub ahead of print] PubMed PMID: 31321439.
12. Suriyawongpaisal P, Aekplakorn W, Leerapan B, Lakha F, Srithamrongsawat S, von Bormann S. Assessing system-based trainings for primary care teams and quality-of-life of patients with multimorbidity in Thailand: patient and provider surveys. *BMC Fam Pract.* 2019 Jun 17;20(1):85. doi: 10.1186/s12875-019-0951-6. PubMed PMID: 31208358; PubMed Central PMCID: PMC6580542
13. Pengpid S, Peltzer K, Jayasvasti I, Aekplakorn W, Puckpinyo A, Nanthananate P, Mansin A. Two-year results of a community-based randomized controlled lifestyle intervention trial to control prehypertension and/or prediabetes in Thailand: a brief report. *Int J Gen Med.* 2019 Mar

25;12:131-135. doi: 10.2147/IJGM.S200086. eCollection 2019. PubMed PMID: 31118740; PubMed Central PMCID: PMC6498981.

14. Aekplakorn W, Tantayotai V, Numsangkul S, Tatsato N, Luckanajantachote P, Himathongkam T. Evaluation of a Community-Based Diabetes Prevention Program in Thailand: A Cluster Randomized Controlled Trial. *J Prim Care Community Health*. 2019 Jan-Dec;10:2150132719847374. doi: 10.1177/2150132719847374. PubMed PMID: 31079517; PubMed Central PMCID: PMC6537248.
15. NCD Risk Factor Collaboration (NCD-RisC). Rising rural body-mass index is the main driver of the global obesity epidemic in adults. *Nature*. 2019 May;569(7755):260-264. doi: 10.1038/s41586-019-1171-x. Epub 2019 May 8. PubMed PMID: 31068725; PubMed Central PMCID: PMC6784868.
16. Sornboot J, Aekplakorn W, Ramasoota P, Bualert S, Tumwasorn S, Jiamjarasrangi W. Detection of airborne Mycobacterium tuberculosis complex in high-risk areas of health care facilities in Thailand. *Int J Tuberc Lung Dis*. 2019 Apr 1;23(4):465-473. doi: 10.5588/ijtld.18.0218. PubMed PMID: 31064626.
17. Jensen HT, Keogh-Brown MR, Shankar B, Aekplakorn W, Basu S, Cuevas S, Dangour AD, Gheewala SH, Green R, Joy EJM, Rojroongwasinkul N, Thaiprasert N, Smith RD. Palm oil and dietary change: Application of an integrated macroeconomic, environmental, demographic, and health modelling framework for Thailand. *Food Policy*. 2019 Feb;83:92-103. doi: 10.1016/j.foodpol.2018.12.003. PubMed PMID: 31007358; PubMed Central PMCID: PMC6472326.
18. Nguyen Ngoc H, Kriengsinyos W, Rojroongwasinkul N, Aekplakorn W. Association of Adiposity Indices with Hypertension in Middle-Aged and Elderly Thai Population: National Health Examination Survey 2009 (NHES-IV). *J Cardiovasc Dev Dis*. 2019 Mar 13;6(1). pii: E13. doi: 10.3390/jcdd6010013. PubMed PMID: 30871270; PubMed Central PMCID: PMC6463150.
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21. Srinonprasert V, Chalerm Sri C, Chailurkit LO, Ongphiphadhanakul B, Aekplakorn W. Vitamin D insufficiency predicts mortality among older men, but not women: A nationwide retrospective cohort from Thailand. *Geriatr Gerontol Int*. 2018 Oct 2. doi: 10.1111/ggi.13529. [Epub ahead of print] PubMed PMID: 30280463.
22. Lohnoo T, Yingyong W, Kumsang Y, Payattikul P, Jaturapaktrarak C, Chailurkit LO, Aekplakorn W, Krajaeun T. Seroprevalence of anti-*Pythium insideosum* antibodies in the Thai population. *Med Mycol*. 2018 May 26. doi:10.1093/mmy/myy030. [Epub ahead of print] PubMed PMID: 29846667
23. Srinonprasert V, Chalerm Sri C, Aekplakorn W. Frailty index to predict all-cause mortality in Thai community-dwelling older population: A result from a National Health Examination Survey cohort. *Arch Gerontol Geriatr*. 2018 May 4;77:124-128. doi: 10.1016/j.archger.2018.05.002. [Epub ahead of print] PubMed PMID: 29751290.
24. Aekplakorn W, Chariyalertsak S, Kessomboon P, Assanangkornchai S, Taneepanichskul S, Putwatana P. Prevalence of Diabetes and Relationship with Socioeconomic Status in the Thai

- Population: National Health Examination Survey, 2004-2014. *J Diabetes Res.* 2018 Mar 1;2018:1654530. doi: 10.1155/2018/1654530. eCollection 2018. PubMed PMID: 29687009; PubMed Central PMCID: PMC5852889.
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26. NCD Risk Factor Collaboration (NCD-RisC). Contributions of mean and shape of blood pressure distribution to worldwide trends and variations in raised blood pressure: a pooled analysis of 1018 population-based measurement studies with 88.6 million participants. *Int J Epidemiol.* 2018 Mar 19. doi: 10.1093/ije/dyy016. [Epub ahead of print] PubMed PMID: 29579276.
27. Sukasem C, Chaichan C, Nakkrut T, Satapornpong P, Jaruthamsophon K, Jantararoungtong T, Koomdee N, Sririttha S, Medhasi S, Oo-Puthinan S, Rerkpattanapipat T, Klaewsongkram J, Rerknimitr P, Tuchinda P, Chularojanamontri L, Tovanabutra N, Puangpetch A, Aekplakorn W. Association between HLA-B Alleles and Carbamazepine-Induced Maculopapular Exanthema and Severe Cutaneous Reactions in Thai Patients. *J Immunol Res.* 2018 Jan 10;2018:2780272. doi:10.1155/2018/2780272. eCollection 2018. PubMed PMID: 29546073; PubMed Central PMCID: PMC5818913.
28. Srithanaviboonchai K, Chariyalertsak S, Nontarak J, Assanangkornchai S, Kessomboon P, Putwatana P, Taneepanichskul S, Aekplakorn W. Stigmatizing attitudes toward people living with HIV among general adult Thai population: Results from the 5th Thai National Health Examination Survey (NHES). *PLoS One.* 2017 Nov 16;12(11):e0187231. doi: 10.1371/journal.pone.0187231. eCollection 2017. PubMed PMID: 29145519; PubMed Central PMCID: PMC5690635.
29. NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in body-mass index, underweight, overweight, and obesity from 1975 to 2016: a pooled analysis of 2416 population-based measurement studies in 128.9 million children, adolescents, and adults. *Lancet.* 2017 Dec 16;390(10113):2627-2642. doi:10.1016/S0140-6736(17)32129-3. Epub 2017 Oct 10. PubMed PMID: 29029897; PubMed Central PMCID: PMC5735219.
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31. Patanavanich R, Suriyawongpaisal P, Aekplakorn W. Characteristics of Medical Malpractice Litigation in Thailand: Cases from Government-Run Hospitals. *World Medical & Health Policy.* doi: 10.1002/wmh3.276
32. Patanavanich, R., Aekplakorn, W., Suriyawongpaisal, P. Trend analysis of smoking-attributable hospitalizations in Thailand, 2007-2014 (2018) *Tobacco Induced Diseases*, 16 (November), art. no. 52, 2-s2.0-85056512097
33. Chailurkit LO, Aekplakorn W, Ongphiphadhanakul B. The Association of Serum Bisphenol A with Thyroid Autoimmunity. *Int J Environ Res Public Health.* 2016 Nov 17;13(11). pii: E1153. PubMed PMID: 27869686; PubMed Central PMCID: PMC5129363.
34. NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in blood pressure from 1975 to 2015: a pooled analysis of 1479 population-based measurement studies with 19.1 million participants. *Lancet.* 2017 Jan 7;389(10064):37-55. doi: 10.1016/S0140-6736(16)31919-5. Epub 2016 Nov 16. PubMed PMID: 27863813; PubMed Central PMCID: PMC5220163.

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36. Chailurkit LO, Aekplakorn W, Srijaruskul K, Ongphiphadhanakul B. Discrepant association of serum C-3 epimer of 25-hydroxyvitamin D versus non-epimeric 25-hydroxyvitamin D with serum lipid levels. *Lipids Health Dis*. 2016 Sep 15;15(1):157. doi: 10.1186/s12944-016-0333-1. PubMed PMID: 27633775; PubMed Central PMCID: PMC5025584.
37. NCD Risk Factor Collaboration (NCD-RisC). A century of trends in adult human height. *Elife*. 2016 Jul 26;5. pii: e13410. doi: 10.7554/eLife.13410. PubMed PMID: 27458798; PubMed Central PMCID: PMC4961475.
38. Suriyawongpaisal P, Tansirisithikul R, Sakulpipat T, Charoensuk P, Aekplakorn W. A Participatory Randomized Controlled Trial in Knowledge Translation (KT) to Promote the Adoption of Self-Monitoring of Blood Glucose for Type 2 Diabetes Mellitus Patients in An Urban District of Thailand. *J Med Assoc Thai*. 2016 Feb;99(2):125-32. PubMed PMID: 27249891.
39. Apinonkul B, Soonthorndhada K, Vapattanawong P, Jagger C, Aekplakorn W. Regional and Gender Differences in Years with and without Mobility Limitation in the Older Population of Thailand. *PLoS One*. 2016 May 3;11(5):e0153763. doi: 10.1371/journal.pone.0153763. eCollection 2016. PubMed PMID: 27138811; PubMed Central PMCID: PMC4854393.
40. NCD Risk Factor Collaboration (NCD-RisC), Di Cesare M, Bentham J, Stevens GA, Zhou B, Danaei G, Lu Y, Bixby H, Cowan MJ, Riley LM, Hajifathalian K, Fortunato L, Taddei C, Bennett JE, Ikeda N, Khang YH, Kyobutungi C, Laxmaiah A, Li Y, Lin HH, Miranda JJ, Mostafa A, Turley ML, Paciorek CJ, Gunter M, Ezzati M. Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled analysis of 1698 population-based measurement studies with 19.2 million participants. *Lancet*. 2016 Apr 2;387(10026):1377-96. doi: 10.1016/S0140-6736(16)30054-X.
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44. Aekplakorn W, Suriyawongpaisal P, Tansirisithikul R, Sakulpipat T, Charoensuk P. Effectiveness of Self-Monitoring Blood Pressure in Primary Care: A Randomized Controlled Trial. *J Prim Care Community Health*. 2016 Apr;7(2):58-64. doi: 10.1177/2150131915614069. Epub 2015 Nov 16. PubMed PMID: 26574566.
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54. Thongthai P, Chailurkit LO, Chanprasertyothin S, Nimitphong H, Sritara P, Aekplakorn W, Ongphiphadhanakul B. Vitamin D Binding Protein Gene Polymorphism as a Risk Factor for Vitamin D Deficiency in Thais. *Endocr Pract*. 2014 Nov 4:1-18. [Epub ahead of print] PubMed PMID: 25370324.
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