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## **CURRICULUM VITAE**

Name: Thunyarat Anothaisintawee  
Title Associate professor, Dr.  
Born [date, location] 17 May 1976, Bangkok, Thailand  
Nationality Thai  
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### **Educatuion**

Degrees and University	2013	<b>Doctor of Philosophy Program in Clinical Epidemiology</b> (International Program) Faculty of Medicine, Ramathibodi Hospital and Faculty of Graduate Studies, Mahidol University, Bangkok, Thailand
Degrees and University	2004	<b>Diploma, Thai Board of Family Medicine</b> Thai Medical Council, Bangkok, Thailand
Degrees and University	2005	<b>Doctor of Medicine</b> (First Class Honors) Faculty of Medicine, Chulalongkorn University

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**Qualification(s)** Medical doctor

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**Membership in societies** Medical Council of Thailand

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### **Employment**

Current employment	15/07/2023	Faculty physician (Associate Professor) Department of Clinical Epidemiology and Biostatistics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
Earlier employment	24/04/2022- 14/07/2023	Medical Research Scientist Bacterial and Parasitic Diseases Department USAMD-AFRIMS
	10/2004- 04/2022	Faculty physician (Associate Professor) and Head of research and epidemiology unit Department of Family Medicine, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
	05/2000- 04/2001	Medical Staff, Lumpoon Hospital, Lumpoon Province
Other	10/2009- 04/2022	Researcher (part time staff) Health Intervention & Technology Assessment Program (HITAP), Ministry of Public Health, Thailand

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**Technical skills** MS Word, MS Excel, MS PowerPoint, MS Visio, STATA, Epidata

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**Areas of expertise** Clinical epidemiology, biostatistics, systematic review, meta-analysis, and network meta-analysis, economic evaluation, cost-effectiveness analysis, cost-utility analysis, family medicine

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**Publications (First author)** 1. **Anothaisintawee T**, Rattanasiri S, Ingsathit A, Attia J, Thakkinstian A. Prevalence of chronic kidney disease: a systematic review and meta-analysis. *Clinical nephrology*. 2009;71(3):244-54.

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2. **Anothaisintawee T**, Wiratkapun C, Lerdsitthichai P, Kasamesup V, Wongwaisayawan S, Srinakarin J, et al. Risk factors of breast cancer: a systematic review and meta-analysis. *Asia Pac J Public Health* 2013;25(5):368-87.
  3. **Anothaisintawee T**, Leelahavarong P, Ratanapakorn T, Teerawattananon Y. The use of comparative effectiveness research to inform policy decisions on the inclusion of bevacizumab for the treatment of macular diseases in Thailand's pharmaceutical benefit package. *Clinicoecon Outcomes Res* 2012;4:361-74.
  4. **Anothaisintawee T**, Teerawattananon Y, Wiratkapun C, Kasamesup V, Thakkinstian A. Risk prediction models of breast cancer: a systematic review of model performances. *Breast Cancer Res Treat* 2012;133(1):1-10.
  5. **Anothaisintawee T**, Attia J, Nickel JC, Thammakraisorn S, Numthavaj P, McEvoy M, et al. Management of chronic prostatitis/chronic pelvic pain syndrome: a systematic review and network meta-analysis. *JAMA* 2011;305(1):78-86.
  6. **Anothaisintawee T**, Rattanasiri S, Ingsathit A, Attia J, Thakkinstian A. Prevalence of chronic kidney disease: a systematic review and meta-analysis. *Clin Nephrol* 2009;71(3):244-54.
  7. **Anothaisintawee T**, Tantai N, Teerawattananon Y, "Cost-utility of once-in-a-lifetime breast cancer screening with mammography in Thai women", *Journal of Health Systems Research*, vol. 7, pp.413-20, 2556.
  8. **Anothaisintawee T**, Teerawattananon Y, Wiratkapun C, Srinakarin J, Woodtichartpreecha P, Hirunpat S, et al. Development and validation of a breast cancer risk prediction model for Thai women: a cross-sectional study. *Asian Pacific journal of cancer prevention : APJCP*. 2014;15(16):6811-7.
  9. **Anothaisintawee T**, Reutrakul S, Van Cauter E, Thakkinstian A. Sleep disturbances compared to traditional risk factors for diabetes development: Systematic review and meta-analysis. *Sleep medicine reviews*. 2015; 30: 11-24.
  10. **Anothaisintawee T**, Udomsubpayakul, U., McEvoy, M., Lerdsitthichai, P., Attia, J., & Thakkinstian, A. (2016). Effect of Lipophilic and Hydrophilic Statins on Breast Cancer Risk in Thai Women: A Cross-sectional Study. *J Cancer*, 7(9), 1163-1168. doi:10.7150/jca.14941
  11. **Anothaisintawee T**, Lertrattananon D, Thamakaison S, Knutson KL, Thakkinstian A, Reutrakul S. Later chronotype is associated with higher hemoglobin A1c in prediabetes patients. *Chronobiology international*. 2017:1-10.
  12. **Anothaisintawee T**, Lertrattananon D, Thamakaison S, Reutrakul S, Ongphiphadhanakul B, Thakkinstian A. Direct and Indirect Effects of Serum Uric Acid on Blood Sugar Levels in Patients with Prediabetes: A Mediation Analysis. *Journal of diabetes research*. 2017;2017:6830671.
  13. **Anothaisintawee T**, Julienne Genuino A, Thavorncharoensap M, Youngkong S, Rattanavipapong W, Meeyai A, et al. Cost-effectiveness modelling studies of all preventive measures against rabies: A systematic review. *Vaccine*. 2018.
  14. **Anothaisintawee T**, Lertrattananon D, Thamakaison S, Thakkinstian A, Reutrakul S. The Relationship Among Morningness-Eveningness, Sleep Duration, Social Jetlag, and Body Mass Index in Asian Patients With Prediabetes. *Frontiers in Endocrinology*. 2018;9(435).
  15. **Anothaisintawee T**, Julienne Genuino A, Thavorncharoensap M, Youngkong S, Rattanavipapong W, Meeyai A, et al. Cost-effectiveness modelling studies of all preventive measures against rabies: A systematic review. *Vaccine*. 2019;37 Suppl 1:A146-a53.
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16. **Anothaisintawee T**, Sansanayudh N, Thamakaisorn S, Lertrattananon D, Thakkinstant A. Neck Circumference as an Anthropometric Indicator of Central Obesity in Patients with Prediabetes: A Cross-Sectional Study. *BioMed research international*. 2019;2019:8.
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**Publications (Corresponding author)**

17. Numthavaj P, **Anothaisintawee T**, Attia J, McKay G, Thakkinstant A. Efficacy of migraine prophylaxis treatments for treatment-naïve patients and those with prior treatment failure: a protocol for systematic review and network meta-analysis of randomised controlled trials. *BMJ Open*. 2024 Mar 1;14(3):e077916.
18. Suthutvoravut U, **Anothaisintawee T**, Boonmanunt S, Pramyothin S, Siriyothin S, Attia J, McKay GJ, Reutrakul S, Thakkinstant A. Efficacy of Time-Restricted Eating and Behavioral Economic Intervention in Reducing Fasting Plasma Glucose, HbA1c, and Cardiometabolic Risk Factors in Patients with Impaired Fasting Glucose: A Randomized Controlled Trial. *Nutrients*. 2023 Sep 30;15(19):4233.
19. Sansanayudh N, **Anothaisintawee T\***, Muntham D, McEvoy M, Attia J, AmmarinThakkinstant. Mean platelet volume and coronary artery disease: a systematic review and meta-analysis. *International journal of cardiology*. 2014;175(3):433-40.
20. Sukhato K, Wongrathanandha C, Thakkinstant A, Dellow A, Horsuwansak P, **Anothaisintawee T\***. Efficacy of additional psychosocial intervention in reducing low birth weight and preterm birth in teenage pregnancy: A systematic review and meta-analysis. *Journal of Adolescence* 2015;44: 106-16.
21. Teerawattananon Y, **Anothaisintawee T\***, Tantivess S, Wattanadilokkul U, Krajaisri P, Yotphumee S, Wongviseskarn J, Tonmukayakul U, Khampang R. EFFECTIVENESS OF DIAPERS AMONG PEOPLE WITH CHRONIC INCONTINENCE IN THAILAND. *International journal of technology assessment in health care* 2015: 1-7.
22. Suwanthawornkul T, **Anothaisintawee T\***, Sobhonslidsuk A, Thakkinstant A, Teerawattananon Y. Efficacy of Second Generation Direct-Acting Antiviral Agents for Treatment Naïve Hepatitis C Genotype 1: A Systematic Review and Network Meta-Analysis. *PLoS ONE*. 2015; 10: e0145953.
23. Angkananard, T., **Anothaisintawee T\***, et al. (2016). "The association of serum magnesium and mortality outcomes in heart failure patients: A systematic review and meta-analysis." *Medicine (Baltimore)* 95(50): e5406.\*
24. Sukhato, K., Lotrakul, M., Dellow, A., Ittasakul, P., Thakkinstant, A., & **Anothaisintawee, T.** (2017). Efficacy of home-based non-pharmacological interventions for treating depression: a systematic review and network meta-analysis of randomised controlled trials. *BMJ Open*, 7(7), e014499. doi:10.1136/bmjopen-2016-014499
25. Angkananard T, **Anothaisintawee T\***, McEvoy M, Attia J, Thakkinstant A. Neutrophil Lymphocyte Ratio and Cardiovascular Disease Risk: A Systematic Review and Meta-Analysis. *BioMed research international*. 2018;2018:2703518.
26. Angkananard T, **Anothaisintawee T**, Ingsathit A, McEvoy M, Silapat K, Attia J, et al. Mediation Effect of Neutrophil Lymphocyte Ratio on Cardiometabolic Risk Factors and Cardiovascular Events. *Sci Rep*. 2019;9(1):2618.
27. Thadanipon K, **Anothaisintawee T**, Rattanasiri S, Thakkinstant A, Attia J. Efficacy and safety of antiscabietic agents: A systematic review and network meta-analysis of randomized controlled trials. *Journal of the American Academy of Dermatology*. 2019.
28. Chareonrungrueangchai K, Wongkawinwoot K, **Anothaisintawee T**, Reutrakul S. Dietary Factors and Risks of Cardiovascular Diseases: An
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- Umbrella Review. *Nutrients*. 2020;12(4).
29. Toi PL, **Anothaisintawee T**, Chaikledkaew U, Briones JR, Reutrakul S, Thakkinstian A. Preventive Role of Diet Interventions and Dietary Factors in Type 2 Diabetes Mellitus: An Umbrella Review. *Nutrients*. 2020;12(9).
  30. Sukhato K, Akksilp K, Dellow A, Vathesatogkit P, **Anothaisintawee T**. Efficacy of different dietary patterns on lowering of blood pressure level: an umbrella review. *Am J Clin Nutr*. 2020;112(6):1584-98.
  31. Karnjanapiboonwong A, **Anothaisintawee T**, Chaikledkaew U, Dejthevaporn C, Attia J, Thakkinstian A. Diagnostic performance of clinic and home blood pressure measurements compared with ambulatory blood pressure: a systematic review and meta-analysis. *BMC Cardiovasc Disord*. 2020;20(1):491.
  32. Jongkhajornpong P, Numthavaj P, **Anothaisintawee T**, Lekhanont K, McKay G, Attia J, et al. Comparison of treatment efficacy between 100% platelet-rich plasma and 100% serum eye drops in moderate-to-severe dry eye disease: a randomised controlled trial protocol. *BMJ Open*. 2021;11(6):e048479.
  33. Jongkhajornpong P, **Anothaisintawee T**, Lekhanont K, Numthavaj P, McKay G, Attia J, et al. Short-term Efficacy and Safety of Biological Tear Substitutes and Topical Secretagogues for Dry Eye Disease: A Systematic Review and Network Meta-analysis. *Cornea*. 2021.
  34. Thamakaison S, **Anothaisintawee T**, Sukhato K, Unwanatham N, Rattanasiri S, Reutrakul S, et al. Hemoglobin A1c in combination with fasting plasma glucose trumps fasting plasma glucose alone as predictive indicators for diabetes mellitus: an ambidirectional cohort study of Thai people with impaired fasting glucose. *BMJ Open Diabetes Res Care*. 2021;9(2).
  35. Chawla N, **Anothaisintawee T**, Charoenrungrueangchai K, Thaipisuttikul P, McKay GJ, Attia J, et al. Drug treatment for panic disorder with or without agoraphobia: systematic review and network meta-analysis of randomised controlled trials. *Bmj*. 2022;376:e066084.
  36. Gunasekara ADM, **Anothaisintawee T**, Youngkong S, Ha NT, McKay GJ, Attia J, et al. Neoadjuvant Treatment with HER2-Targeted Therapies in HER2-Positive Breast Cancer: A Systematic Review and Network Meta-Analysis. *Cancers (Basel)*. 2022;14(3).

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**Publications (Co-author)**

37. Yoopetch P, **Anothaisintawee T**, Gunasekara ADM, Jittikoon J, Udomsinprasert W, Thavorncharoensap M, Youngkong S, Thakkinstian A, Chaikledkaew U. Efficacy of anti-tuberculosis drugs for the treatment of latent tuberculosis infection: a systematic review and network meta-analysis. *Sci Rep*. 2023 Sep 27;13(1):16240.
38. Rattanasiri S, McDaniel DO, McEvoy M, **Anothaisintawee T**, Sobhonslidsuk A, Attia J, et al. The association between cytokine gene polymorphisms and graft rejection in liver transplantation: a systematic review and meta-analysis. *Transpl Immunol* 2013;28(1):62-70.
39. Thakkinstian A, Attia J, **Anothaisintawee T**, Nickel JC. alpha-blockers, antibiotics and anti-inflammatories have a role in the management of chronic prostatitis/chronic pelvic pain syndrome. *BJU Int* 2012;110(7):1014-22.
40. Chalkidou K, Marquez P, Dhillon PK, Teerawattananon Y, **Anothaisintawee T**, Gadelha CA, et al., "Evidence-informed frameworks for cost-effective cancer care and prevention in low, middle, and high-income countries", *The lancet oncology*, vol. 15, pp.e119-e31, 2014.
41. Wilasrusmee C, **Anothaisintawee T**, Poprom N, McEvoy M, Attia J, Thakkinstian A, "Diagnostic Scores for Appendicitis: A Systematic Review of Scores' Performance", *British Journal of Medicine & Medical*

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- Research, vol. 4, pp.711-30, 2014.
42. Kongtharvonskul J, **Anothaisintawee T**, McEvoy M, Attia J, Woratanarat P, Thakkinstian A. Efficacy and safety of glucosamine, diacerein, and NSAIDs in osteoarthritis knee: a systematic review and network meta-analysis. *European journal of medical research* 2015;20: 24.
  43. Thakkinstian A, **Anothaisintawee T**, Chailurkit L, Ratanachaiwong W, Yamwong S, Sritara P, et al. Potential causal associations between vitamin D and uric acid: Bidirectional mediation analysis. *Scientific Reports*. 2015; 5: 14528.
  44. Lekhanont, K., Jongkhajornpong, P., **Anothaisintawee, T.**, & Chuckpaiwong, V. (2016). Undiluted Serum Eye Drops for the Treatment of Persistent Corneal Epithelial Defects. *Sci Rep*, 6, 38143. doi:10.1038/srep38143
  45. Nagaviroj, K., & **Anothaisintawee, T.** (2016). A Study of the Association Between Multidisciplinary Home Care and Home Death Among Thai Palliative Care Patients. *Am J Hosp Palliat Care*. doi:10.1177/1049909116631550
  46. Reutrakul, S., Thakkinstian, A., **Anothaisintawee, T.**, Chontong, S., Borel, A. L., Perfect, M. M., . . . Knutson, K. L. (2016). Sleep characteristics in type 1 diabetes and associations with glycemic control: systematic review and meta-analysis. *Sleep Med*, 23, 26-45. doi:10.1016/j.sleep.2016.03.019
  47. Sathornviriyapong, A., Nagaviroj, K., & **Anothaisintawee, T.** (2016). The association between different opioid doses and the survival of advanced cancer patients receiving palliative care. *BMC Palliat Care*, 15(1), 95. doi:10.1186/s12904-016-0169-5
  48. Seanglelur, A., Vanasbodeekul, P., Prapaitrakool, S., Worathongchai, S., **Anothaisintawee, T.**, McEvoy, M., . . . Thakkinstian, A. (2016). The efficacy of local infiltration analgesia in the early postoperative period after total knee arthroplasty: A systematic review and meta-analysis. *Eur J Anaesthesiol*, 33(11), 816-831. doi:10.1097/eja.0000000000000516
  49. Reutrakul S, **Anothaisintawee T**, Herring SJ, Balserak BI, Marc I, Thakkinstian A. Short sleep duration and hyperglycemia in pregnancy: Aggregate and individual patient data meta-analysis. *Sleep medicine reviews*. 2017.
  50. Reutrakul S, Sumritsopak R, Saetung S, Chanprasertyothin S, **Anothaisintawee T**. The relationship between sleep and glucagon-like peptide 1 in patients with abnormal glucose tolerance. *Journal of sleep research*. 2017;26(6):756-63.
  51. Boonyathee S, Nagaviroj K, **Anothaisintawee T**. The Accuracy of the Edmonton Symptom Assessment System for the Assessment of Depression in Patients With Cancer: A Systematic Review and Meta-Analysis. *The American journal of hospice & palliative care*. 2018;35(4):731-9.
  52. Rattanavipapong W, **Anothaisintawee T**, Teerawattananon Y. Revisiting policy on chronic HCV treatment under the Thai Universal Health Coverage: An economic evaluation and budget impact analysis. *PLoS One*. 2018;13(2):e0193112.
  53. Nimitphong H, Mahattanapreut A, Chailurkit LO, Saetung S, Siwasaranond N, Sumritsopak R, et al. More evening preference is positively associated with systemic inflammation in prediabetes and type 2 diabetes patients. *Sci Rep*. 2018;8(1):15882.
  54. Pongwittayapanu P, **Anothaisintawee T**, Malathum K, Wongrathanandha C. Incidence of Newly Diagnosed Tuberculosis among Healthcare Workers in a Teaching Hospital, Thailand. *Annals of global health*. 2018;84(3):342-7.
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55. Rattanavipapong W, Thavorncharoensap M, Youngkong S, Genuino AJ, **Anothaisintawee T**, Chaikledkaew U, et al. The impact of transmission dynamics of rabies control: Systematic review. *Vaccine*. 2018.
  56. Reutrakul S, **Anothaisintawee T**, Herring SJ, Balsarak BI, Marc I, Thakkinstian A. Short sleep duration and hyperglycemia in pregnancy: Aggregate and individual patient data meta-analysis. *Sleep medicine reviews*. 2018;40:31-42.
  57. Saetung S, Nimitphong H, Siwasaranond N, Sumritsopak R, Jindahra P, Krairit O, et al. The relationship between sleep and cognitive function in patients with prediabetes and type 2 diabetes. *Acta diabetologica*. 2018;55(9):917-25.
  58. Sangroongruangsri S, Ratanapakorn T, Wu O, **Anothaisintawee T**, Chaikledkaew U. Comparative efficacy of bevacizumab, ranibizumab, and aflibercept for treatment of macular edema secondary to retinal vein occlusion: a systematic review and network meta-analysis. *Expert review of clinical pharmacology*. 2018;11(9):903-16.
  59. Sriphrapadang C, Pinyopodjanard S, Suntornlohanakul O, Nimitphong H, Chirakalwasan N, Saetang S, et al. Lack of associations between thyroid function and obstructive sleep apnea severity in adults with prediabetes and diabetes mellitus. *Sleep & breathing = Schlaf & Atmung*. 2018.
  60. Utako P, Emyoo T, **Anothaisintawee T**, Yamashiki N, Thakkinstian A, Sobhonslidsuk A. Clinical Outcomes after Liver Transplantation for Hepatorenal Syndrome: A Systematic Review and Meta-Analysis. *BioMed research international*. 2018;2018:5362810.
  61. Bagepally BS, Gurav YK, **Anothaisintawee T**, Youngkong S, Chaikledkaew U, Thakkinstian A. Cost Utility of Sodium-Glucose Cotransporter 2 Inhibitors in the Treatment of Metformin Monotherapy Failed Type 2 Diabetes Patients: A Systematic Review and Meta-Analysis. *Value in health : the journal of the International Society for Pharmacoeconomics and Outcomes Research*. 2019;22(12):1458-69.
  62. Barengolts E, Smith ED, Reutrakul S, Tonucci L, **Anothaisintawee T**. The Effect of Probiotic Yogurt on Glycemic Control in Type 2 Diabetes or Obesity: A Meta-Analysis of Nine Randomized Controlled Trials. *Nutrients*. 2019;11(3).
  63. Khampang R, Khuntha S, Hadnorntun P, Kumluang S, **Anothaisintawee T**, Tanuchit S, et al. Selecting topic areas for developing quality standards in a resource-limited setting. *BMJ open quality*. 2019;8(1):e000491.
  64. Lekhanont K, Jongkhajornpong P, Sontichai V, **Anothaisintawee T**, Nijvipakul S. Evaluating Dry Eye and Meibomian Gland Dysfunction With Meibography in Patients With Stevens-Johnson Syndrome. *Cornea*. 2019.
  65. Lekhanont K, Sathianvichitr K, Pisitpayat P, **Anothaisintawee T**, Soontrapa K, Udomsubpayakul U. Association between the levels of prostaglandin E2 in tears and severity of dry eye. *International journal of ophthalmology*. 2019;12(7):1127-33.
  66. Bagepally BS, Chaikledkaew U, Gurav YK, **Anothaisintawee T**, Youngkong S, Chaiyakunapruk N, et al. Glucagon-like peptide 1 agonists for treatment of patients with type 2 diabetes who fail metformin monotherapy: systematic review and meta-analysis of economic evaluation studies. *BMJ Open Diabetes Res Care*. 2020;8(1).
  67. Charoentanyarak A, **Anothaisintawee T**, Kanhasing R, Poonpetcharat P. Prevalence of Burnout and Associated Factors Among Family Medicine Residency in Thailand. *J Med Educ Curric Dev*. 2020;7:2382120520944920.
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68. Chen C, Dieterich AV, Koh JJE, Akksilp K, Tong EH, Budtarad N, et al. The physical activity at work (PAW) study protocol: a cluster randomised trial of a multicomponent short-break intervention to reduce sitting time and increase physical activity among office workers in Thailand. *BMC Public Health*. 2020;20(1):1332.
  69. Isaranuwatjai W, Teerawattananon Y, Archer RA, Luz A, Sharma M, Rattanaipapong W, et al. Prevention of non-communicable disease: best buys, wasted buys, and contestable buys. *Bmj*. 2020;368:m141.
  70. Kothari V, Cardona Z, Chirakalwasan N, **Anothaisintawee T**, Reutrakul S. Sleep interventions and glucose metabolism: systematic review and meta-analysis. *Sleep Med*. 2021;78:24-35.
  71. Lekhanont K, Pisitpayat P, Cheewaruangroj N, Jongkhajornpong P, Nonpassopon M, **Anothaisintawee T**. Outcomes of Descemet Membrane Endothelial Keratoplasty in Bangkok, Thailand. *Clin Ophthalmol*. 2021;15:2239-51.
  72. Kothari V, Cardona Z, Chirakalwasan N, **Anothaisintawee T**, Reutrakul S. Sleep interventions and glucose metabolism: systematic review and meta-analysis. *Sleep Medicine*. 2021;78:24-35.
  73. Bagepally BS, Chaikledkaew U, Youngkong S, **Anothaisintawee T**, Thavorncharoensap M, Dejthevaporn C, et al. Cost-Utility Analysis of Dapagliflozin Compared to Sulfonylureas for Type 2 Diabetes as Second-Line Treatment in Indian Healthcare Payer's Perspective. *Clinicoecon Outcomes Res*. 2021;13:897-907.
  74. Teerawattananon Y, **Anothaisintawee T**, Pheerapanyawaranun C, Botwright S, Akksilp K, Sirichumroonwit N, et al. A systematic review of methodological approaches for evaluating real-world effectiveness of COVID-19 vaccines: Advising resource-constrained settings. *PLoS One*. 2022;17(1):e0261930.
  75. Nguyen HT, Thavorncharoensap M, Phung TL, **Anothaisintawee T**, Chaikledkaew U, Sobhonslidsuk A, et al. Comparative efficacy and safety of pharmacological interventions to prevent Mother-to-Child transmission of hepatitis B virus: A systematic review and network meta-analysis. *Am J Obstet Gynecol*. 2022.
  76. Brabaharan S, Veettil SK, Kaiser JE, Raja Rao VR, Wattanayingcharoenchai R, Maharajan M, et al. Association of Hormonal Contraceptive Use With Adverse Health Outcomes: An Umbrella Review of Meta-analyses of Randomized Clinical Trials and Cohort Studies. *JAMA Netw Open*. 2022;5(1):e2143730.
  77. Kongmalai T, Srinonprasert V, **Anothaisintawee T**, Kongmalai P, McKay G, Attia J, Thakkinstian A. New anti-diabetic agents for the treatment of non-alcoholic fatty liver disease: a systematic review and network meta-analysis of randomized controlled trials. *Front Endocrinol (Lausanne)*. 2023 Jun 27;14:1182037.
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**Research experiences**

**Key experiences within the following research areas:**

<b>Study design:</b>	Cross-sectional study
<b>Research title:</b>	Association between sleep factors, serum uric acid level, and HbA1c level in pre-diabetic people
<b># of Countries:</b>	1
<b># of Sites:</b>	1
<b># of Patients:</b>	3100
<b>Funding support</b>	Health Systems Research Institute, Thailand (grant no. 60-042)
<b>Role:</b>	<b>Principal investigator</b>
<b>Key Responsibilities:</b>	Develop research protocol, data collection, cleaning and checking the data, data

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management and analysis, writing and submitting manuscript

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**Study design:** Prospective cohort study  
**Research title:** Progression rate to diabetes mellitus and chronic kidney disease in pre-diabetic people  
**# of Countries:** 1  
**# of Sites:** 1  
**# of Patients:** 3100  
**Funding support** Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand  
**Role:** **Principal investigator**  
**Key Responsibilities:** Develop research protocol, data collection, cleaning and checking the data, data management and analysis, writing and submitting manuscript

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**Study design:** Cross-sectional study  
**Research title:** Development and validation of breast cancer risk prediction model in Thai women  
**# of Countries:** 1  
**# of Sites:** 3  
**# of Patients:** 18000  
**Funding support** Health Intervention and Technology Assessment Program, Ministry of Public Health, Thailand  
**Role:** **Principal investigator**  
**Key Responsibilities:** Develop research protocol, data collection, cleaning and checking the data, data management and analysis, writing and submitting manuscript

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**Study design:** Systematic review and meta-analysis  
**Research title:** Efficacy of lifestyle interventions and effect of unhealthy lifestyle behavior in prevention and risk of developing non-communicable diseases  
**# of Countries:** 1  
**# of Sites:** NA  
**# of Patients:** NA  
**Funding support** Prince Mahidol Award Foundation, Thai Health Promotion Foundation, and International Decision Support Initiative  
**Role:** **Principal investigator**  
**Key Responsibilities:** Develop research protocol, literature searching, study selection, cleaning and checking the data, data management and analysis, risk of bias assessment, writing and submitting manuscript

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**Study design:** Randomized controlled trial

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<b>Research title:</b>	Efficacy of buccal midazolam compared with sublingual lorazepam for reducing dyspnea as adjunct to morphine in palliative cancer patients: A randomized controlled trial
<b># of Countries:</b>	1
<b># of Sites:</b>	1
<b># of Patients:</b>	40
<b>Funding support</b>	Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand
<b>Role:</b>	Supervisor
<b>Key Responsibilities:</b>	Develop research protocol, cleaning and checking the data, data management and analysis, revising manuscript
<b>Study design:</b>	Randomized controlled trial
<b>Research title:</b>	Efficacy of time restricted feeding and economic behavioral intervention in reducing fasting plasma glucose, HbA1c, and cardiometabolic risk factors compared to time restricted feeding alone or usual care in patients with prediabetes: A randomized controlled trial
<b># of Countries:</b>	1
<b># of Sites:</b>	1
<b># of Patients:</b>	90
<b>Funding support</b>	National Research Council of Thailand
<b>Role:</b>	Principal investigator
<b>Key Responsibilities:</b>	Develop research protocol, data collection, cleaning and checking the data, data management and analysis
<b>Reviewer of international peer review journal</b>	BMJ, BMJ Open, BMC Endocrine Disorder, BMC Psychiatry, British Journal of Cancer, Biomedical Research International, Diabetologia, BMC Cardiovascular disease