

# CURRICULUM VITAE

## NAME:

Associate Professor Dr. WISARN WORASUWANNARAK



## QUALIFICATIONS:

M.D., Ph.D., F.R.C.Path.T., M.Sc., LL.B.

## NATIONALITY:

Thai

## CURRENT POSITIONS:

- Associate Professor of Forensic Medicine
- Head of Forensic Serology Laboratory
- Assistant Dean for Academic Affairs and Culture
- Expert Committee of The Committee on Development of the Search of Missing Persons and Identification of Unidentified Persons and Remains System
- Committee of the Royal College of Pathologists of Thailand
- Collaborator of Forensic Drug Abuse Monitoring Network

## WORKPLACE:

Division of Forensic Medicine, Department of Pathology,  
Faculty of Medicine Ramathibodi Hospital, Mahidol University  
270 Rama 6 Road, Tung Phayathai, Ratchathewi  
Bangkok 10400, Thailand

## EDUCATION:

- 2020 Doctor of Philosophy in Criminology, Justice Administration and Society  
Mahidol University, Thailand
- 2017 Master of Science in DNA Profiling (Distinction)  
University of Central Lancashire, United Kingdom
- 2011 Diploma of the Thai Board of Forensic Medicine  
The Medical Council of Thailand
- 2011 Higher Graduate Diploma in Clinical Science (Forensic Medicine)  
Faculty of Medicine, Chiang Mai University
- 2010 Bachelor of Laws  
Faculty of Law, Sukhothai Thammathirat Open University
- 2008 Graduate Diploma in Clinical Science (Family Medicine)  
Faculty of Medicine, Chiang Mai University
- 2008 Internship  
Maharaj Nakorn Chiang Mai Hospital
- 2007 Doctor of Medicine  
Faculty of Medicine, Chiang Mai University

## STATUS IN ORGANIZATION:

2025 – present	Expert Committee The Committee on Development of the Search of Missing Persons and Identification of Unidentified Persons and Remains System
2023 – present	Committee Royal College of Pathologists of Thailand
2023 – 2025	Chairman of Forensic Medicine Workgroup (FMWG) Asian Forensic Science Network (AFSN)
2020 – present	Assistant Dean for Academic Affairs and Culture, Faculty of Medicine Ramathibodi Hospital, Mahidol University
2018 – present	Associate Professor & Head of the Forensic Serology and DNA Laboratory Division of Forensic Medicine, Department of Pathology, Faculty of Medicine Ramathibodi Hospital, Mahidol University
2014 – 2018	Assistant Professor Division of Forensic Medicine, Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University
2011 – present	Collaborator Forensic Drug Abuse Monitoring Network (FDAMN)
2011 – 2014	Instructor Division of Forensic Medicine, Department of Pathology, Faculty of Medicine, Ramathibodi Hospital, Mahidol University

## AREAS OF INTEREST:

- Forensic genetics and serology
- Molecular autopsy
- Virtual autopsy
- Drug addiction surveillance
- Criminology

## AWARDS & ACHIEVEMENTS:

2025	Thanyarak Award for Academic Excellence For Drug Treatment, Prevention, and Intervention Issued by the Princess Mother National Institute on Drug Abuse Treatment, Thailand Bangkok, Thailand (23 May 2025)
2024	Plaque of Honor for Outstanding Work For Prevention and Solution of Drug Problems (Administration) Issued by the Office of the Narcotics Control Board, Bangkok, Thailand Bangkok, Thailand (3 July 2024)
2020	Plaque of Honor for Continuous Support For Prevention and Solution of Drug Problems in the Country Issued by the Office of the Narcotics Control Board, Bangkok, Thailand Bangkok, Thailand (September 2020)
2013	Best Poster Presentation in Medical Laws In 11 <sup>th</sup> Indo Pacific Association of Law, Medicine and Science Congress (INPALMS 2013)

Kuala Lumpur, Malaysia (5-10 Oct 2013)

- 2010 Best Poster Presentation in Forensic Medicine  
In 22<sup>nd</sup> National Conference of Thai Pathologists, Royal College of Pathologists of Thailand  
Bangkok, Thailand (4-6 Oct 2010)

## PUBLICATIONS

### TEXTBOOK CHAPTERS:

1. Sirote Wongwaisayawan, **Wisarn Worasuwannarak**, Rathachai Kaewlai. “Postmortem Computed Tomography (PMCT) in Trauma”. in: Rathachai Kaewlai, editor. *Emergency Imaging: Trauma, volume 2*. 2021.
2. **Wisarn Worasuwannarak**. “Physical examination and biological evidence collection from patients”. In: Budsaba Rerkamnuaychoke, editor. *Recent Advances in Forensic Genetics*. Bangkok: Faculty of Medicine Ramathibodi Hospital; 2018.
3. **Wisarn Worasuwannarak**. “Laws related to evidence in forensic genetics”. In: Budsaba Rerkamnuaychoke, editor. *Recent Advances in Forensic Genetics*. Bangkok: Faculty of Medicine Ramathibodi Hospital; 2018.
4. **Wisarn Worasuwannarak**. “Forensic genetics”. In: Vichan Peonim, editor. *Forensic Medicine: An atlas for medical student*. Bangkok: Octoberprints Co.,Ltd.; 2018.
5. **Wisarn Worasuwannarak**. “Birth, Death, and the Laws”. In: Witoon Ungprapan and Vichan Peonim, editors. *Forensic Medicine (LAW 3034)*. Bangkok: Ramkhamhaeng University Press; 2014.
6. **Wisarn Worasuwannarak**. “Sudden Unexpected Death”. In: Sansanee Wongwaisayawan, editor. *Anatomical Pathology volume 1*. Bangkok: Octoberprints Co.,Ltd.; 2012.

### RESEARCH PUBLICATIONS:

1. **Worasuwannarak W**, Poonyarith S, Kanyajit S, Rujipak V, Waiyawuth W. A DNA Biometric Implementation Model to Promote Thailand’s Criminal Justice System. *Science & Technology Asia*. 2025;30(2):241-255.
2. Likkachai K, Wongwaisayawan S, Siriwas K, **Worasuwannarak W**. Abbreviated injury scale-guided assessment of traumatic deaths: postmortem CT versus autopsy. *Forensic Science International: Synergy*. 2025 Jun 1;10:100588. (Corresponding author)
3. Yeesakhorn P, Tungsub W, Saksobhavivat N, **Worasuwannarak W**. High Diagnostic Accuracy of Postmortem CT for Hemothorax with Volume Estimation Challenges: A Comparative Study with Autopsy. *Forensic Imaging*. 2025;41:200626. (Corresponding author)
4. Chudoung U, Saengon W, Peonim V, **Worasuwannarak W**. Comparison of Learning Outcomes Among Medical Students in Thailand to Determine the Right Time to Teach Forensic Medicine: Retrospective Study. *JMIR Medical Education*. 2025 Feb 10;11:e57634. (Corresponding author)
5. Trikasemmart M, Siriwechdaruk P, Hsieh P, Paradeevissut P, Wongakkarakhun N, Srisont S, Numthavaj P, **Worasuwannarak W**. Validation of the Thai translation of the attitudes toward euthanasia scale. *Heliyon*. 2024 Nov. 10(22):e40271. (Corresponding author)
6. Manta AM, Petraso PE, Tomassini L, Piras GN, De Maio A, Cappelletti S, Straccamore M, Siodambro C, De Simone S, Peonim V, Cipolloni L, Fulginiti L, Oliva A, **Worasuwannarak W**, Fineschi V, Ciallella C. The wounding potential of assault rifles: analysis of the dimensions of entrance and exit wounds and comparison with conventional handguns. A multicentric study. *Forensic Science, Medicine and Pathology*. 2024 Sep;20(3):896-909.
7. Sujirachato K, Wongyanin P, Ramadjai P, Ladsuk A, Pokkasap K, **Worasuwannarak W**. Study of the DNA Extraction from the Nail by Spin Column-based Nucleic Acid Purification. *Journal of Forensic Science and Medicine*. 2024 Jul 1;10(3):191-5. (Corresponding author)
8. Hanthanasan W, Santanirand P, Siriwas K, **Worasuwannarak W**. The Effects of Changing Needles on Reducing Contamination of Postmortem Hemocultures. *Ramathibodi Medical Journal*. 2024 Jun 26;47(2):1-11. (Corresponding author)

9. Sribanditmongkol P, Junkuy A, Homkham N, **Worasuwannarak W**, Hess JA. Autopsy study of alcohol-associated unnatural deaths in Thailand, 2007-2019. *Alcohol: Clinical and Experimental Research*. 2023 Nov;47(11):2056-2067.
10. Sujirachato K, Wongyanin P, Arooncharus P, Peonim V, Udnoon J, **Worasuwannarak W**. Study of the Relationship between the Sudden Death Due to Coronary Atherosclerosis and Homozygous and Heterozygous ABO Blood Group in Thai Population. *Advanced Science Journal*. 2023 Jul 31;23(2):R56-73. (Corresponding author)
11. Chansaengpetch N, **Worasuwannarak W**, Worawichawong S. Methamphetamine-induced profound rhabdomyolysis and myoglobin cast nephropathy: A case report and a literature review. *Journal of forensic and legal medicine*. 2023 May 1;96:102530. (Corresponding author)
12. Gurung G, **Worasuwannarak W**, Srisont S. Injury Pattern And Distribution According To Autopsy Findings Among Pedestrian Traffic Fatalities. *Asian Archive of Pathology*. 2023 Jan;5(1):1-15.
13. Kosawiat K, Kaewlai R, Jenjitranant P, **Worasuwannarak W**. Sensitivity and Specificity of Postmortem CT for Detection of Thoracic Injury. *Indian Journal of Forensic Medicine & Toxicology*. 2021 Oct 1;15(4). (Corresponding author)
14. Wannasri T, Peonim V, **Worasuwannarak W**. Cardiopulmonary Resuscitated Complications Encountered in Forensic Autopsy Cases: A 5-Year Retrospective Analysis in Ramathibodi Hospital. *Indian Journal of Forensic Medicine & Toxicology*. 2021 Jul 1;15(3):4621-4630. (Corresponding author)
15. **Worasuwannarak W**. DNA and Drug Suppression. *ONCB Journal*. 2020 Jun;36(3):17-22.
16. Sujirachato K, Tirawatnapong S, Mimae N, Inon S, Kaewdouengdee A, **Worasuwannarak W**. The Study of the Yield of DNA Extracted From Hairs of Postmortem Cases. *Ramathibodi Medical Journal*. 2020 Jun 30;43(2):9-18. (Corresponding author)
17. Peonim V, **Worasuwannarak W**. Myocardial tissue embolism in lung due to gunshot wound to the chest. *Journal of Forensic and Legal Medicine*. 2020 Jun 17:102002. (Corresponding author)
18. **Worasuwannarak W**, Peonim V, Srisont S, Udnoon J, Chudoung U, Kaewlai R. Comparison of postmortem CT and conventional autopsy in five trauma fatalities. *Forensic Imaging*. 2020 May 26:200389.
19. **Worasuwannarak W**, Sribanditmongkol P, Aramrattana A, Junkuy A, Chaijaruwanich J, Kummaraka U, et al. Trends in Substance Abuse Detection in Unnatural Deaths in Thailand, 2007–2018. *ONCB Journal*. 2019 Jun;35(3):44-51.
20. Sakulsaengrapha V, Peonim V, **Worasuwannarak W**. Trends of homicidal deaths in central Bangkok, Thailand: a 5-year retrospective study. *Egyptian Journal of Forensic Sciences*. 2018 Dec;8(1):14. (Corresponding author)
21. Junhasavasdikul D, Sukhato K, Srisangkaew S, Theera-Ampornpunt N, Anothaisintawee T, Dellow A, T-REX group. Cartoon versus traditional self-study handouts for medical students: CARTOON randomized controlled trial. *Medical Teacher*. 2017 Aug 3;39(8):836-43.
22. Peonim V, Udnoon J, **Worasuwannarak W**, Wongwichai S, Srisont S, Kongtragoonmonkong O. Atypical Entrance Wounds of High Velocity Bullets: Two Cases Presentation. *Ramathibodi Medical Journal*. 2017 Dec 29;40(4):39-48.
23. Peonim V, Kaewlai R, Srisont S, Udnoon J, **Worasuwannarak W**. A Rare Forensic Autopsy Case Report of Thanatophoric Dysplasia Type I. *Indian Journal of Forensic Medicine & Toxicology*. 2017 Jan 1;11(1). (Corresponding author)
24. Peonim V, Srisont S, Udnoon J, Wongwichai S, Thapon A, **Worasuwannarak W**. Entrance and exit wounds of high velocity bullet: An autopsy analysis in the event of dispersing the mass rally in Bangkok Thailand, May 2010. *Legal Medicine*. 2016 Nov 30;23:10-6. (Corresponding author)
25. Larpkrajang S, **Worasuwannarak W**, Peonim V, Udnoon J, Srisont S. The use of pilocarpine eye drops for estimating the time since death. *Journal of Forensic and Legal Medicine*. 2016 Apr;39:100-3. doi: 10.1016/j.jflm.2016.01.008. Epub 2016 Jan 21. (Corresponding author)
26. Kanchana Sujirachato, **Wisarn Worasuwannarak**, Smith Srisont, Jitta Udnoon, Vichan Peonim. ABO Blood Group and Coronary Atherosclerosis in Thais at Ramathibodi Hospital. *Siriraj Medical Journal*. 2015;67(2):53-9.

27. Myint S, Rerkamnuaychoke B, Peonim V, Riengrojpitak S, **Worasuwannarak W**. Fatal firearm injuries in autopsy cases at central Bangkok, Thailand: A 10-year retrospective study. *Journal of Forensic and Legal Medicine*. 2014 Nov;20:5-10. (Corresponding author)
28. Peonim V, Sujirachato K, Srisont S, Udnoon J, **Worasuwannarak W**. Committed suicide: forensic autopsy analysis at Ramathibodi Hospital during year 2001-2010. *Journal of Medical Association of Thailand*. 2014 Jun;97(6):662-8. (Corresponding author)
29. Peonim V, **Worasuwannarak W**, Sujirachato K, Teerakamchai S, Srisont S, Udnoon J, Chudoung U. Comparison between prostate specific antigen and acid phosphatase for detection of semen in vaginal swabs from raped women. *Journal of Forensic and Legal Medicine*. 2013 Aug;20(6):578-81. (Corresponding author)
30. **Worasuwannarak W**, Bhoopat T, Bhoopat L. Detection of Y-Chromosome DNA Locus DYS385 and Spermatozoa in Vaginal Swabs of Rape Victims: A Comparative Study. *Journal of Forensic Physician of Thailand*. 2011;(5)1:12-21.

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