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### Curriculum Vitae of Thein Zhu

Thein Zhu

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## Curriculum Vitae of Thein Zhu

**1999- To Date in Fort Wayne, Indiana, USA** (Past career for 1963-1998 period in Myanmar (Burma) is also attached)

### A. IDENTIFICATION

1. *Full Name* :Thein Hlaing Zhu (as Thein Hlaing before 2009)
2. *Gender* :Male
3. *Occupation* :Trauma Epidemiologist  
Trauma Services, Parkview Hospital  
11104 Parkview Circle Dr, Suite 120  
Fort Wayne, IN 46845  
Tel: 260-266-1279; 260-267-2673 (mobile)  
Email: [thein.zhu@parkview.com](mailto:thein.zhu@parkview.com)

### B. EDUCATION

#### Qualifications

<i>Degree</i>	<i>Year Conferred</i>	<i>Institution and Location</i>
MBBS (Bachelor of Medicine, Bachelor of Surgery Surgery) (Equivalent to MD)	1962	Faculty of Medicine, University of Rangoon, Burma
DP&TM (Diploma in Preventive & Tropical Medicine) (Equivalent to MPH & TM)	1970	Institute of Medicine 1, Rangoon, Burma
FACE (Fellow of Am. Col. of Epidemiology)	1990	American College of Epidemiology
FRCP (Fellow of Royal Col. of Physicians)	1994	Royal College of Physicians, Edinburgh, UK

### C. PRESENT EMPLOYMENT RECORD

<i>Post &amp; Institute</i>	<i>Duties and Responsibilities</i>
Trauma Epidemiologist Trauma Services Parkview Hospital/PRMC Fort Wayne IN 46845 (June 7, 1999 to date)	<ul style="list-style-type: none"><li>- To fine-tune trauma registry data according to own-developed data validation scheme</li><li>- To assist in State Trauma Registry Development and help validate data submitted to NTDB up to 2011</li><li>- To analyze and report on trauma prevention program Data, 2002-2015</li><li>- To produce annual trauma services report since 2004</li><li>- To instruct ortho-residents (2005-2009) and SERF students as preceptors since its inception in research methodology and help research project implementation</li><li>- To help analyze other departmental projects (IVC filter</li></ul>

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in 2019, multimodal pain therapy in surgical geriatric hip fracture patients in 2019-20, mass casualty min drills to improve staff knowledge in 2019-2021) for advanced statistical data analysis

- To help prepare Annual Trauma Report (research component), See the 2021 report website: [https://www.parkview.com/media/file/Trauma\\_Report\\_2021\\_WEB-1.pdf](https://www.parkview.com/media/file/Trauma_Report_2021_WEB-1.pdf)
  - To conduct and publish clinical-epidemiologic research in Hip Fracture and TBI.
  - 18 published articles since 2003.
- Click [here](#) to see some latest publications.
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#### D. FELLOWSHIPS (research training)

<i>Subjects/Location</i>	<i>Duration</i>	<i>Funding Agency</i>
Epidemiology & Medical Statistics at London School of Tropical Medicine & Hygiene, UK; cancer epidemiology at IARC in Lyon, France; and cancer registration in Singapore Registry	One year (Sept. 1976 to Sept. 1977)	International Agency for Research on Cancer (IARC), Lyon, France
Advanced Epidemiological Methods and Statistics at Harvard School of Public Health, Boston, MA and Tufts University	6 months (June-Dec 1986)	World Health Organization for South-East Asia, New Delhi, India
Reproductive Health in Singapore and Thailand	3 weeks (Jan-Feb 1994)	WHO/HRP (Human Reproductive Health), Geneva

#### E. INVOLMENT IN DNP (Doctor of Nursing Practice) DEGREE

- a. Served as one of the specially appointed three-member faculty committee at the Purdue University School of Nursing, West Lafayette, Indiana for a nursing DNP candidate starting in September 16, 2019.
- b. Helped as a resource person to develop the DNP student dissertation document on “Impact of Surgery Department of Mass Casualty Mini Drills on Staff Knowledge of Institutional Mass Casualty Policy or Procedure in a Level 2 Trauma Center” beginning in October 18, 2019.
- c. Assisted in solving eight statistical analysis exercise sessions using SPSS software as part of the DNP program course. The exercises included univariate and multivariate analysis. Each session lasted one and half to 2 hours.
- d. Supervised and analyzed the DNP dissertation data using ANOVA for presentation and publication in a nursing journal.

- e. Acted as an examiner (Graduate Faculty Identifier: C11251) together with other committee members for assessment and confirmation of the DNP degree based on the student's presentation on November 17, 2020.

## F. INVOLVEMENT AS MENTOR/PRECEPTORS

### (a) Summer Research Students

I have been mentor/preceptor of college and/or 2<sup>nd</sup> year medical students since 2006. Three studies resulted in publications in peer-reviewed journals

### (b) Orthopedic Residents

I have been mentor/preceptor of orthopedic residents from 2005-2009. Two studies resulted in peer-reviewed journals.

## G. INVOLVEMENT IN MEETINGS/WORKSHOPS

<i>Name of meeting/workshop</i>	<i>Responsible function</i>
Annual Users Conference on Aug 23-25, 00	Participant
Annual Users Conference on Aug 8-10, 01	“
Annual Users Conference on Jul29-Aug2, 02 on trauma registry software use and trauma data management in Denver, sponsored by Clinical Data Management, Conifer, CO	“
National Foundation for Trauma Care Conference, Arlington, VA, October 21-23, 2004.	Invited Speaker
The annual TQIP meeting at Anaheim, CA in 2018	Selected Speaker

## H. CURRENT RESEARCH PROJECTS

1. Community-based studies on hip fracture in residents of 5 counties in northeast Indiana:
  - 1.1. Factors Influencing Admission, Transit, and Preoperative Wait Times in Hip Fracture Surgery in a Rural Health System
  - 1.2. Assessing Hip Fracture Injury Burden in a Rural Community Using Disability-Adjusted Life Years (DALYs)
  - 1.3. Predictors of Mortality and Hospital Length of Stay in Hip Fracture Patients in a Rural Community
2. Pediatric Trauma Epidemiologic Study based on Residents of Five counties in Northeast Indiana, 2019-2023 (in preparation with Jen)
3. CT scan study in Pediatric Patients before and after Education on C-Spine Policy to Emergency Physicians at Eight Parkview Community Hospitals, 2017-2021, a pre- (7 hospitals) and post (8 hospitals)-comparison based on pediatric cervical spine clearance guidelines for Parkview Community Hospitals (Poster presented). Need updated. Promising for publication. Lauren Quandt, a trauma program nurse (PI) left the services. A detailed analysis was done by me.

4. DART (Difficult Airway Response Team) on Outcomes in a Non-Academic Level Two Trauma Center (with SERF student and Lisa (manuscript preparation for submission))
5. Impact of Blood Transfusion Coordinator on Massive Blood Transfusion Policy (MTP) on Multiple Outcomes (with Sarah, the project is pending)

#### **I. Research/Study/Software Grants/Awards**

1. Impact of Helmet Use in Preschool Children in Northeast Indiana for 1 year, 2008-2009, funded by the American Trauma Society (Amount: \$20,000)
2. Perioperative Care for 2 years, 2013-2014, funded by the Cardinal Health Foundation (\$34,000)
3. Installation of SPSS software version 21 in 2013, funded by the Parkview Hospital Foundation (\$5,700)
4. Updating SPSS version annually from version 22 to 26 since 2014 funded by the Parkview Health Foundation ranging \$1,200 to \$1,600. However, updating of SPSS was requested to stop by Lisa as funding was not said to be available from Parkview Foundation.
5. 2019 Michael Mirro Award presented by Fort Wayne School of Medicine
6. 2021 Certificate of Appreciation presented for participation as a Mentor by Indiana School of Medicine

#### **J. SCIENTIFIC PRESENTATIONS, POSTERS AND PUBLICATIONS**

##### **Scientific Presentations**

- Hlaing, T (2000). Impact of Deworming on the Growth of Schoolchildren in Yangon, Burma. Paper read at the Conference on Controlling Disease Due to Helminth Infections, February 2000 in Bali, Indonesia, sponsored by Government of Indonesia and World Health Organization. (Non-Trauma).
- Aaland, MO & Hlaing, T (2001). Rural Pediatric Trauma: A Retrospective Review of Pediatric Trauma and Comparison with Other Pediatric Trauma Centers. Paper read at the 48<sup>th</sup> meeting of the Indiana Chapter of the American College of Surgeons, May 3-5, 2001 at Grand Wayne Convention Center, Fort Wayne, IN.
- Aaland, MO & Hlaing, T (2001). Delayed Diagnosis in Trauma: Time for a Clear Definition. *Ibid*, May 3-5, 2001 at Grand Wayne Convention Center, FW, IN.
- Aaland, MO & Hlaing, T (2004). A Critical Analysis of Pediatric Trauma Mortality. Paper at the 2004 National Trauma Conference, sponsored by American Trauma Society, in Arlington, Virginia, April 30-May 2, 2004.
- Hlaing, T (2004). Assuring Registry Quality: Data Validation. Presentation at National Foundation for Trauma Care, in Arlington, Virginia, October 21-23, 2004.

- Aaland M & Hlaing T. (2007). Trauma Death Analysis: Fair and Balanced. Annual CDM User Conference, Breckenridge, Colorado.
- Aaland MO, Hanna JD & Hlaing T. (2007). Splenic Artery Embolization in Blunt Trauma: High 'Failure' Rate Equals Success. Presentation at ACS Indiana Chapter Annual Meeting at South Bend, Indiana, May 10, 2007.
- Winters J, Aaland M & Hlaing T. (2007). Trauma Case Manager: The Impact on Hospital Length of Stay. *Ibid.* (Dr. Winters *won* the 2007 Leonard D. Ensminger Award in trauma surgery paper for Indiana.)
- Staron J, Aaland M & Hlaing T. (2007). The Nursing Home – An Integral Part of the Rehabilitation Team in MVC Victims. *Ibid*
- Smith M, Aaland M, Reed J, Facco R & Hlaing T. (2008). Non-reformatted Computer Tomography scanning of the Abdomen and Pelvis as a Screening Tool for Significant Thoracolumbar Injury resulting from Blunt Trauma. Presentation at ACS Indiana Chapter Annual Meeting at Indianapolis, Indiana.
- Williams B, Aaland M & Hlaing T. (2008). Ten-year Retrospective Study of Delayed Diagnosis of Injury in Pediatric Trauma Patients. *Ibid.*
- Zhu TH, Aaland MO & Hollister L. Standardized Mortality Rate Ratio: A New Indicator for Assessing Trauma center Performance. Annual Scientific Meeting at the American College of Epidemiology, Silver Spring, MD, September 2009.
- Smith WM, Aaland MA, Reed JD, Facco R, Hlaing T, Hicks BM (2008) Standard Trauma CT Scan of the Abdomen/Pelvis is a Reliable Screening Tool for Significant TLS Injury Resulting from Blunt Trauma American College of Surgeons, Indiana Chapter Meeting (Dr. Smith *won* the 2008 Leonard D. Ensminger Award in trauma surgery paper for Indiana).
- Williams B, Aaland MO, Hlaing T (2008). Ten-Year Retrospective Study of Delayed Diagnosis of Injury in Pediatric Patients at a Level II Trauma Center. *Ibid.* (Dr. Williams *won* the 2008 R. Morton Bolman II Award in trauma surgery paper for Indiana).
- Smith WM, Aaland MA, Reed JD, Facco R, Hlaing T (2008). Standard Trauma CT Scan of the Abdomen/Pelvis is a Reliable Screening Tool for Significant TLS Injury Resulting from Blunt Trauma. Annual Orthopedic Trauma Association Meeting, Denver, CO.
- Hall A, Aaland MO, Zhu TH (2009). Acute Cardiac Events Resulting in Cardiac Procedures in Traumatized Patients: An 11-year Review in a Non-academic Hospital. ACS Indiana Chapter Annual Meeting at French Lick, Indiana. (Dr. Hall *won* the 2009 Leonard Ensminger Award in trauma surgery paper)

Zhu TH, Aaland MA, Kerrigan C, Schiebel R, Henry H, Hollister L (2011). The Impact of Free Bicycle Helmet Distribution to Preschool Children in a Head Start Program. Joint Annual Meeting of the Safe States Alliance, SAVIR, & CDC, Iowa City, IA.

Aaland M, Marose K, Zhu TH (2012). The Lost to Trauma Patients Follow-Up: A System or Patient Problem. Annual Western Surgical Conference, Vail, CO.

Zhu TH (2020). Sharing of Clinico-Epidemiologic Research Findings for Injury Prevention in Lagrange County with Parkview Lagrange Hospital Board Quality Committee Members. January 17, 2020.

Zhu TH (2024). Research Methodology Basics. Annual SERF Orientation Meeting, Mirro Center. May 28, 2024.

### Posters

Hlaing, T & Harris, C (2001). Patient Outcome at Parkview Hospital Level II Trauma Center: Samaritan vs. Ambulance Transport. Annual Users Conference Sponsored by Clinical Data Management, Inc. Conifer, CO.

Hlaing, T & Aaland, M (2001). Performance Progress at ER: Before and After Trauma Center Verification. *Ibid.*

Hlaing T & Aaland M (2001). The Nature & Pattern of Auto Crash Resulting in Major Trauma of People in Allen County, Indiana. *Ibid.*

Hollister L, Winters, J, Aaland M & Hlaing T. (2007). The Impact of a Trauma Case Manager on Hospital Length of Stay. *Ibid.*

Hanna JD, Hlaing T, Reed J & Aaland M. (2007). Splenic Artery Embolization in Blunt Trauma: High “Failure” Rate Means Success. Annual Scientific Meeting At the Southeastern Surgical Congress. Savannah, Georgia, February 10-13, 2007.

Staron JS, Aaland MO & Hlaing T. (2007). The Nursing Home – An Integral Part of The Rehabilitation Team in Motor Vehicle Collision Victims. *Ibid.*

Aaland MO, Williams B, Hlaing T (2008). Ten-Year Retrospective Study of Delayed Diagnosis of Injury in Pediatric Trauma Patients at A Level II Trauma Center. Annual Meeting at AAST and the Japanese Assoc for Acute Medicine, Maui, HA.

Smith M, Reed JD, Facco R, Hlaing T, Aaland M, Hicks B. (2008). Trauma CT Scan of the Abdomen and Pelvis is a Reliable Screening Tool for Significant Thoracolumbar Injury Resulting from Blunt Trauma. *Ibid.*

Zhu TH, Aaland M, Orsagh-Yentis DK (2009). A New Standardization Technique for Benchmarking Trauma Center Performance. Annual Scientific Meeting at the Southeastern Surgical Congress, Atlanta, Georgia.

- Zhu TH, Aaland M, Hollister L (2009). Standardized Mortality Rate Ratio: A New Indicator for Assessing Trauma Center Performance. Annual Scientific Meeting at the American College of Epidemiology, Silver Spring, Maryland.
- Marose K, Aaland M, Zhu TH (2010). In-Depth Analysis of Loss to Follow-Up in a Trauma Clinic at a Non-Academic Trauma Center. Annual Student Poster Display sponsored Summer Research Fellowship Program (SRFP).
- Vachon CM, Aaland M, Zhu TH (2010). Readmission of Trauma Patients in a Non-academic Trauma Center. *Ibid.*
- Zhu TH, Hollister L, Scheumann C, Konger J, Opoku D, Dykstra T (2014). Improving Trauma Care at Rural Hospitals by Provision of Rural Trauma Team Development Course Education. Annual TQIP meeting, Chicago, Illinois.
- Martin JE, Hollister, L, Zhu TH, Opoku, D. Assessment of Hospital Cost at a Level II Trauma Center. Annual Student Poster Display sponsored by Summer Research Fellowship Program (SRFP).
- Remington AM, Urban DA, Zhu TH (2015). Health-Related Quality of Care of Prostate Cancer Patients Following Prostatectomy in a Community Cancer Center. *Ibid.*
- Yde S, Munir D, Zhu TH, Opoku D, Hollister L (2015). Rural Trauma Epidemiology in NE Indiana, Part I. Cause and Magnitude of Trauma Incidence for 2013.
- Munir D, Yde S, Zhu TH, Opoku D, Hollister L (2015). Rural Trauma Epidemiology in NE Indiana, Part II. Injury Rates Based on Cause by Age and Sex, 2013. *Ibid.*
- Zhu TH, Yde S, Munir D, Opoku D, Hollister L (2016). Trauma Incidence Served by Hospitals Affiliated by a Verified Trauma Center. 6<sup>th</sup> International Congress of the Americas. Miami, Florida, June 21-24, 2016.
- McCann J, Brummett H, Zhu TH, Hollister H, Opoku D (2017). Road Trauma by Road Use Category. Annual Student Poster Display sponsored by MAHE SRFP.
- Zhu TH, Hollister L, Opoku, Galvagno S (2018). Evaluation of Helicopter Transport Performance on Trauma Survival at a Rural Level II Trauma Center. Annual TQIP Meeting. Anaheim, CA November 16-18, 2018.
- Zhu TH, Hollister L, Opoku (2019). Evaluation of Road Trauma in Northeast Indiana: A Retrospective Cohort Study Design with an External Control. Annual TQIP Meeting. Dallas, TX November 16-18, 2019.
- Hollister L, Zhu TH, Edwards N, Good B, Hoepfner S. Mass Casualty Mini Drills on Trauma Surgery Department Staff Knowledge: An Educational Improvement Study. Virtual Annual Society of Trauma Nurse Meeting. March 26-27, 2021.



Hollister L, Quandt L, Konger J, Zhu TH. Computed Tomography Scan Reduction in Pediatric Trauma Patients at Parkview Community Hospitals in Indiana. Virtual ACS Quality & Safety Conference. July 12-16, 2021.

Kimes K, Zhu TH. Community-Based Study on Hip Fracture in a Rural Area in North-East Indiana. Virtual Indiana Medical student Program for Research and Fellowship (IMPRS)-Sponsored Symposium. July 29, 2021. IMPRS gave his presentation a Honorable Mention award.

Zhu TH, Kimes K. Impact of Obesity, Hospital Transfer, and Surgery Intervention on Mortality and Hospital Length of Stay in Hip Fracture Patients at Parkview Trauma Center Network Serving Rural NE Indiana on July 19<sup>th</sup> at Virtual Peer Review and Multidisciplinary Meeting and July 21<sup>st</sup>, 2022 at Virtual TRAC District 3 Meeting.

Kipfer I, Zhu TH, Hollister L, Opoku D. Traumatic Brain Injury in a Level II Trauma Center Network Serving Northeastern Indiana: A Cross-Sectional Study at SERF-Sponsored Poster Symposium, July 25, 2022 in Mirro Center, Fort Wayne and IMPRS-Sponsored Poster Symposium in person, July 28<sup>th</sup>, 2022 at Indianapolis.

**Publications** (Please use thein-hlaing, Hlaing T or Zhu TH for PubMed search)

Hlaing T. & Aaland M (2003). Screening for Accuracy and Completeness in Identifying Specific Injury in Trauma Registry. *J Registry Mangt.* 30: 23-25.

Hlaing T., Khine, WW, Than TT et al. (2003). Impact of deworming on the growth of schoolchildren in Yangon. In: *Controlling Disease due to helminth infections* Crompton, D.W.T., Montresor, A. Nesheim, M.C. & Savioli, L. (Eds.), Geneva: World Health Organization, pp. 43-54. (Non-Trauma)

Hlaing T, Aaland M. & Tinnell C (2003). A Complex Mode of Patient Selection from a Trauma Registry Database for Comparative Studies. *J Registry Mangt.* 30:127-29  
Aaland M. & Hlaing T (2004). Amish Buggy Injuries in the 21<sup>st</sup> Century: A Retrospective Review from a Rural Level II Trauma Center. *The American Surgeon.* 7: 228-234.

Hlaing T., Harris C., Gilbert A & Hollister L (2005). Missing Case Detection and Repair in a Trauma Registry Database. *J Registry Mangt* 32:16-20.

Aaland M & Hlaing T (2006). Pediatric Trauma Deaths: A Three-Part Analysis From a Non-Academic Trauma Center. *The American Surgeon.* 72: 249-259.

Aaland M, Leffers K & Hlaing T (2006). Discharging to a Nursing Home – Not a Terminal Event: A Follow-up Study of Senior Motor Vehicle Crash Patients. *The American Surgeon.* 72: 815-819.

- Hlaing T., Hollister L., Aaland M (2006). Trauma Registry Data Validation: Essential for Quality Trauma Care. *J Trauma*. 61: 1400-1407.
- Wiggs-Stayner KS, Purdy TR, Go GN, McLaughlin NC, Tryzykka PS, Sines JR & Hlaing T (2006). The Impact of Mass School Immunization on School Attendance. *J School Nursing*. 22: 219-222.
- Williams BG, Hlaing T (Zhu TH), Aaland MO (2009). Delayed Diagnosis of Injury in Pediatric Patients. *Pediatr Emer Care*. 25(8):489-93.
- Smith M, Reed JD, Facco R, Hlaing T, McGee A, Hicks BM, Aaland MO (2009) The Reliability of Non-reconstructed Computerized Tomographic scans of the Abdomen and Pelvis in Detecting Thoracolumbar Spine Injuries in Blunt Trauma Patients with Altered Mental Status. *J Bone Joint Surg Am*. Oct;91:2342-49.
- Zhu TH, Aaland M, Kerrigan C, Schibel R, Henry H, Hollister H (2011). Preventable Head and Facial Injuries by Providing Free Bicycle Helmets and Education to Preschool Children in a Head Start Program. *Health*. 3:689-697.
- Vachon CM, Aaland M, Zhu TH (2012). Readmission of Trauma Patients in a Nonacademic Level II Trauma Center. *J Trauma*. 72: 531-6.
- Aaland M, Marose K, Zhu TH (2012). The Lost to Trauma Patient Follow-Up: A System or Patient Problem. *J Trauma*. 73:1505-1509.
- Zhu TH, Hollister L, Scheumann C, Konger J, Opoku D. (2016). Effectiveness of the Rural Trauma Team Development Course for Educating Nurses and Other Health Care Providers at Rural Community Hospitals. *J Trauma Nursing*, 23: 13-22.
- Zhu TH, Hollister L, Opoku D, Galvagno S. (2018). Improved Survival for Rural Trauma patients Transported by Helicopter to a Verified Trauma Center: A Propensity Score Analysis. *Acad Emerg Med*. 25(1):44-53.
- Girardot K, Hollister L, Zhu TH, Hoepfner S, Opoku D, Heisler J, Bane T. Effectiveness of Multimodal Pain Therapy on Reducing Opioid Use in Surgical Geriatric Hip Fracture Patients. *J Trauma Nursing*. 2020; 27(4):207-215.
- Hollister L, Zhu TH, Edwards N, Good B, Hoepfner S. Mass Casualty Mini Drills on Trauma Surgery Department Staff Knowledge: An Educational Improvement Study. *J Trauma Nursing*. 2021; 28(2):135-141. Available at: [https://journals.lww.com/journaloftraumanursing/Fulltext/2021/03000/Mass\\_Casualty\\_Mini\\_Drills\\_on\\_Trauma\\_Surgery.12.aspx](https://journals.lww.com/journaloftraumanursing/Fulltext/2021/03000/Mass_Casualty_Mini_Drills_on_Trauma_Surgery.12.aspx)
- Kimes K, Zhu, TH. Community-Based Study on Hip Fracture in a Rural Area in North-East Indiana. 2021 Student Research Fellowship Program: SERF ABSTRACT Booklet.

Powers C, Hollister L, Zhu T, Petersen D, Girardot K. Difficult Airway Response Team (DART): A Novel Approach in a Non-Academic Level Two Trauma Center. 2021 Student Research Fellowship Program: SERF ABSTRACT Booklet.

Hollister L, Girardot K, Konger, J, Zhu TH. Factors Influencing Definitive Care in Hip Fracture Patients in a Rural Health System. *J Trauma Nursing*, 31(4), 182-188. <https://doi.org/10.1097/JTN.0000000000000796> (I opted for a correspondence author)

## A Brief Description of Past Career in Myanmar (Burma), 1963-1998

Please see below other past career's publications under Section G.

### A. EMPLOYMENT RECORD

<i>Post &amp; Institute</i>	<i>Duties and Responsibilities in Brief</i>
<b>Position careers in succession:</b> 1. Epidemiologist 2 Sr. Epidemiologist 3. Head of Epidemiology Division 4. Deputy Director 5 Director 6. Deputy Director General Department of Medical Research (DMR), Ministry of Health, Yangon Myanmar (Burma) (Aug 1971 to March 1998)	Position 1 &2: To plan, develop and conduct research projects, and review and assess research proposals, reports, and papers Position 3 & 4: To manage scientific and managerial aspects of research projects from Epidemiology, HSR and Medical Statistics Divisions, continue publish research articles and annual DMR reports Position 5 & 6: To evaluate and manage DMR research programs and staff at Board of Director meetings and implement DMR missions
Medical Inspector Factory Inspectorate, Yangon (Nov. 1970 to Aug. 1971)	<ul style="list-style-type: none"> <li>- To enforce factory acts, pertaining to provisions of workers' health</li> <li>- To educate and disseminate knowledge on occupational health to employers of industrial establishments</li> <li>- To investigate occupational hazards</li> </ul>
Medical Officer Towns/Rural Areas (July 1963 to Nov. 1970)	<ul style="list-style-type: none"> <li>- To provide medical and surgical care in the township and to refer cases to specialist hospitals</li> <li>- To carry out and supervise urban and rural health programs within the township</li> <li>- To carry out general administrative duties including reporting, budgeting etc.</li> <li>- To carry out other activities like Red Cross, MCH, etc.</li> </ul>

### B. INVOLVEMENT IN ACADEMIC MEETINGS/WORKSHOPS

#### National (Within Burma)

Attended the following workshops/meetings as a participant/facilitator/resource person

- 1 " *Evaluation and Monitoring of Health Projects and Programs for the Development of Methodology and Application*" on 26-31 December 1977 and 23-28 January 1978.
- 2 " *Comprehensive Review of Diarrheal Diseases Control Program*" on 20 June to 9 July, 1985.
- 3 " *Clinical Trials Methodology*" held at DMR, on 22-26 March 1988.
4. " *Evaluation Research Methodology*" on 13-15 March 1989.
5. " *Prevention and Management of Snakebites*" on 26 September 1989.
6. " *Research Methodology*" on 3-6 October 1989.
7. Government/UNDP Workshop on " *Project Design, Monitoring and Evaluation*" on 4-8

- December 1989.
8. "Development of Methodology to Determine the Optimal Mix of Human Resources for Health" on 13-17 February 1990.
  9. Seminar on "Social Marketing" on 4-6 April 1990, sponsored by Government/ UNICEF.
  10. "Human Resources for Health in support of Policy Analysis & Planning" on 23-27 July 1990.
  11. "Assessment of National Needs for Research in Reproductive Health in Myanmar" on 21-23 August 1990.
  12. "Critical Appraisal of Research Protocols on Prioritized Topics in Reproductive Health" on 19-21 February 1991.
  13. "National Health Plan Formulation", 16 February to 31 March 1993.
  14. "Control and Management of Malaria", 23-26 March 1993.
  15. "Research Training on Social Science and Epidemiological Methodologies for Research on Reproductive Health", 4-9 October, 1993.
  16. "Social Science Research Methodology" on 26-29 April 1994.
  17. "Data Management for Research in Human Reproduction", 8-12 August 1994.
  18. "Development of Guidelines for Preparation of National Plan of Action of International Conference on Population & Development" on 7-8 December 1995, sponsored by UNFPA.

### International

<i>Name of meeting/workshop</i>	<i>Responsible function</i>
1. Meeting on "Ascariasis and Its Public Health Significance", held in <u>Banff, Canada</u> on 14-15 September 1984, sponsored by WHO and Cornell University.	Invited Speaker & Participant A paper on "Ascaris lumbricoides infections in Burma" was presented.
2. Meeting on "Prevention and Control of Ascariasis", held in <u>Penang, Malaysia</u> on 2-4 February 1988, sponsored by WHO and Glasgow University.	Invited Speaker & Participant Two papers were presented, "national experiences in control" and "study design"
3. WHO Bi-regional (SEARO/WPRO) Workshop on "Field Research Methods in Tropical Diseases" in <u>Manila</u> , 10-15 July 1989	Facilitator A research protocol on "Operations research on malaria control" was submitted.
4. Regional workshop on "Development of Guidelines for the Conduct of Epidemiological Studies on AIDS/HIV Infection", held in <u>New Delhi</u> , India, on 16-20 July 1990, sponsored by WHO/SEARO.	Participant A paper on "AIDS/HIV infection in Myanmar" was presented.
5. Workshop on "Epidemiological Research in Reproductive Health", held in <u>Jakarta</u> , Indonesia, on 23 September to 4 October 1991, sponsored by WHO/HRP.	Participant A research protocol on "Low birth weight on infant survival" was presented.
6. <i>The 15<sup>th</sup> Session Joint Co-ordination Board of the WHO Special Program for Research and Training in Tropical Diseases (TDR) and the 12<sup>th</sup> Meeting of Interested Parties (MIP) of the Diarrhea Diseases Control (DDC) and the Acute Respiratory Infections (ARI) Program</i> , held in <u>Geneva</u> from 30 June to 3 July 1992, under the aegis of WHO.	Country Representative
7. Symposium on "Influence of Parasitic Infections on Nutritional Status" held under the XIII	Invited Speaker & Participant A paper on "Benefits of deworming for

- International Congress for Tropical Medicine and Malaria in Jomtiem, Pattaya, Thailand, 29 November to 4 December 1992. childhood growth" was presented
8. Meeting on "*Task Force on Health System Research*" held in Yangon, 27-29 October 1993, sponsored by WHO/SEARO. Temporary Adviser
  9. International symposium on "*Population and Sustainable Development*" held in Beijing, 27-29 September 1995, sponsored by China State Education Commission/UNFPA, and TCDC Workshop on "*Determinants of Contraceptive Choice and Use Continuation*", held in Beijing, 30 Sept - 4 Oct 1995, sponsored by WHO/HRP. Participant
  10. Workshop on "*Scientific Working Group on Operational Research in Reproductive Health*" held in New Delhi, 2-4 September 1996, sponsored by WHO/SEARO. Working group member
  11. International Conference on "*Science and Health: Opportunities and Challenges for the 21st Century*" held in Bangkok, 1-5 February 1997, sponsored by WHO/SEARO, & Thailand Health Organizations. Participant of a 5-member team headed by Deputy Minister for Health
  12. Seminar in "*Nutrition of Primary School Children in Relation to Intestinal Parasites*" at Cornell University in Ithaca, New York State on 12 November 1998. Invited Speaker

### C. INVOLVEMENT IN ACADEMIC COMMITTEES

	<i>Academic Committee</i>	<i>Type of Member</i>
1	Scientific Working Group on Snakebite Research at DMR.	Member (1982 - 93)
2	Scientific Working Group on Dengue Hemorrhagic Fever at DMR.	Member (1984 - 93)
3	Scientific Working Group on Malaria Research at DMR.	Member (1985)
4	National Malaria Control Committee	Member (1989 - 92)
5	Surveillance and Research Section of the National AIDS Control Committee	Member (1991 - 93)
6	Scientific Working Group for Health Systems Research in Myanmar.	Member (1990 - 95)
7	Editorial Board of the DMR Bulletin issued by DMR.	Member (1986 - 97)
8	Editorial Board of the Burma Health Sciences Research Journal published by DMR.	Associated Editor (1989 - 94); Editor (1995 - 97)
9	DMR Protocol Screening Committee	Chair (1995-1996)
10	Institutional Committee on Medical Ethics	Member/Chair (1995 - 97)
11	Annual Myanmar Health Research Congress Organizing Committee	Secretary (1995-1996)

### D. INVOLVEMENT IN TEACHING/EXAMINATION

A course on epidemiology and control of intestinal helminthiases especially on ascariasis for the Master of Medical Science (public health) post-graduate students at the Institute of Medicine 1, Rangoon from 1984 to 1996. Similarly, a course on epidemiological

methods with practical classes for the above degree was given from 1987 to 1997. I had served as an External Examiner in Epidemiology and/or Health Statistics for the above degree from 1984 to 1997.

**E. SUPERVISOR OR PROVIDING ASSISTANCE TO POST GRADUATE STUDENTS FOR THEIR THESES**

<i>Name of Candidate</i>	<i>Title of Dissertation/Thesis</i>	<i>Diploma/Degree, Institute and year accomplished</i>
Aung Myo Han	Comparative analysis of mortality of insured workers in industrial establishments and of working age population in Rangoon	D.P & T.M. (Preventive & Trop. Med.) Institute of Medicine 1, Rangoon 1979.
Aye Thant Zin	Behavioral determinants of reinfection with <i>Ascaris lumbricoides</i> following chemotherapy in Okpo village	M.Sc. (Zool.) Univ. of Rangoon 1984.
Thida Thein	Laboratory studies on the life table, basic reproductive rate and intrinsic rate of increase of the well-breeding <i>An. dirus</i>	M.Sc. (Zool.) Univ. of Rangoon 1987.
Ah Mar	A study of the profile of common intestinal helminthiases in children admitted to Rangoon Children's Hospital	M.Med.Sci. (Pediatrics) Inst. of Medicine 1, Rangoon 1987.
Than Than Tin	Prediction of Premalignant Cervical Lesions	Dr. Med.Sc. (OBGYN) Institute of Medicine, Mandalay, April 1998

**F. COUNTERPART TO VISITING CONSULTANTS WITH SIMILAR RESEARCH INTERESTS AT THE DEPARTMENT OF MEDICAL RESEARCH, RANGOON**

<i>Name &amp; Address of Consultant</i>	<i>Funding agency for Consultancy/Period</i>	<i>Subject</i>
Prof. B. Cvjetanovic WHO Geneva Switzerland	WHO 1 month (Feb-Mar 82)	Epidemiological Modeling of Acute Bacterial & Viral Diseases
Prof. R.M. Anderson Imperial College of Science & Technology, London SW7 2BB	WHO 2 weeks (Nov. 82)	Population Dynamics of Intestinal Helminths
Dr. L. Molineaux Malaria Action Program WHO Geneva	WHO/TDR 3 weeks (Dec. 83)	Dynamics of Malaria Transmission Study (Study Protocol)
Prof. D.W.T. Crompton University of Cambridge, Cambridge CB2 3EE	USAID 1 weeks (May 84)	Ascariasis Control & Child Nutrition (Study Protocol)
Prof. M. Nesheim Cornell University, Ithaca, NY 14853	USAID 10 days (Feb. 86)	Ascariasis Control & Child Nutrition (Project Assessment)

Prof. F.L. Dunn University of California, San Francisco, CA 94143	WHO/TDR 3 weeks (Jan-Feb 86)	Socio-Behavioural Aspects of Malaria, Ascariasis
Dr. L. Molineaux Malaria Action Program, WHO, Geneva	WHO/TDR 1 week (Feb. 87)	Dynamics of Malaria Transmission Study (Data Analysis)
Drs. L. Molineaux & J. Hashmi WHO/TDR, Geneva	WHO/TDR 1 week (Sept. 1991)	Malaria Control (Program-based grant for application)
Drs. F. Webb, I. Shah, WHO/HRP, Geneva	WHO/HRP 1 week (Oct. 1993)	Reproductive Health (Institutional Development Grant, Year 1)
Dr. Chai Podhisita, Institute for Population & Social Research, Mahidol University, Bangkok	WHO/HRP 1 week (June 1994)	Reproductive Health (Project proposal)
Drs I. Alam & T.B. Ann UNFPA/CST Adviser, UNFPA Office, Bangkok	UNFPA 4 days (March 1995)	Contraceptive Acceptability & Reproductive Practices study (Questionnaire development)
Dr. Patrick J. Rowe WHO/HRP Geneva	WHO/HRP 4 days each (July 95; Jan. 96)	Reproductive Health (Institutional Development & Projects)

## G. SCIENTIFIC PUBLICATIONS

### Publications on intestinal helminthiasis

**Thein-Hlaing**, Than-Saw, Htay-Htay-Aye, Myint-Lwin & Thein-Maung-Myint (1984).  
Epidemiology and transmission dynamics of *Ascaris lumbricoides* in Okpo, rural  
Burma. *Tran. Roy. Soc. Trop. Med. Hyg.*, 78: 497-504.

**Thein-Hlaing** (1985). *Ascaris lumbricoides* infections in Burma. In: *Ascariasis and Its Public  
Health Significance*. Crompton, D.W.T., Nesheim, M.C. & Pawlowski, Z.S. (Eds.)  
London: Taylor and Francis, pp. 83-112.

**Thein-Hlaing** (1986). *Recent advances in epidemiology of intestinal helminthiasis*. (A working  
paper prepared for the WHO expert committee on Prevention & Control of Intestinal  
Parasitic Infections) WHO/PDP/EC/WP 86.6.

**Thein-Hlaing**, Than-Saw & Myint-Lwin (1987). Reinfection of people with *Ascaris  
lumbricoides* following single, 6-month and 12-month interval mass chemotherapy in  
Okpo village, rural Burma. *Trans. Roy. Soc. Trop. Med. Hyg.*, 81: 140-146.

**Thein-Hlaing** (1987). A profile of ascariasis morbidity in the Rangoon Children's Hospital,  
Burma. *J. Trop. Med. Hyg.*, 90: 165-169.

**Thein-Hlaing** (1987). Recent research on ascariasis in Burma. *DMR Bull.*, 2: 1-23.

Aung-Myo-Han, **Thein-Hlaing**, Myat-Lay-Kyin & Than-Saw (1988). Hand washing  
intervention to reduce ascariasis in children. *Trans. Roy. Soc. Trop. Med. Hyg.*, 82: 153.



- Thein-Hlaing** (1989). National experiences of control measures and programs on ascariasis in Burma. In: *Prevention and Control of Ascariasis*. Crompton, D.W.T., Nesheim, M.C. & Pawlowski, Z.S. (Eds.), London: Taylor and Francis, pp. 133-167.
- Thein-Hlaing** (1989). Epidemiological basis on survey design, methodology and data analysis for ascariasis. In: *Prevention and Control of Ascariasis*. Crompton, D.W.T., Nesheim, M.C. & Pawlowski, Z.S. (Eds.), London: Taylor and Francis, pp. 351-368.
- Myat-Lay-Kyin & **Thein-Hlaing** (1989). A preliminary study on knowledge and practices on ascariasis in rural Taikkyi. *Myanmar Health Sci. Res. J.*, 2: 51-54.
- Than-Saw, **Thein-Hlaing** & Myat-Lay-Kyin (1990). Intestinal helminthiasis in 21 villages in rural Taikkyi, Myanmar. *Myanmar Health Sci. Res. J.*, 2: 19-24.
- Thein-Hlaing**, Myat-Lay-Kyin, Hlaing-Mya & Maung-Maung (1990). Role of ascariasis in surgical abdominal emergencies in the Yangon Children's Hospital, Burma *Ann. Trop. Paediatr.*, 10: 53-60
- Thein-Hlaing**, Than-Saw & Myat-Lay-Kyin (1990). Control of ascariasis through age-targeted chemotherapy: impact of 6-monthly chemotherapeutic regimens. *Bull. W.H.O.*, 68:747-753.
- Thein-Hlaing**, Than-Saw & Myat-Lay-Kyin (1991). The impact of 3-monthly age-targeted chemotherapy on *Ascaris lumbricoides* infection. *Trans. Roy. Soc. Trop. Med. Hyg.*, 85: 519-522. (Funded by USAID )
- Thein-Hlaing**, Thane-Toe, Than-Saw, Myat-Lay-Kyin & Myint-Lwin (1991). A controlled chemotherapeutic intervention trial on the relationship between *Ascaris lumbricoides* infection and malnutrition in children. *Trans. Roy. Soc. Trop. Med. Hyg.*, 85: 523-528. (Funded by USAID )
- Thein-Hlaing** (1993). Ascariasis and childhood malnutrition. *Parasitology*, 107, Suppl: S125-S136.
- Thein-Hlaing** (1993). Benefits of deworming for childhood growth. *DMR Bull.*, 7: 1-8.
- Thein-Hlaing** (1994). The effect of targeted chemotherapy against ascariasis on height of children in rural Myanmar. *Trans. Roy. Soc. Trop. Med. Hyg.*, 88:433.
- Myint-Lwin & **Thein-Hlaing** (1995). Diseases of Nematodes. In: *Text book of Internal Medicine*. Kyaw-Win *et al.* (Eds.), 3<sup>rd</sup> Edition, Yangon: Myanmar Medical Association.
- Thein-Hlaing**, Win-Win-Khine, Tin-Tin-Thin, Than-Saw, Myo-Khin, *et. al.* (1995). Nutritional status and intestinal parasitoses in school-enrolled and non-enrolled school-age children in Yangon. *Myanmar Health Sci. Res. J.*, 7: 86-91.
- Thein-Hlaing**, Win-Win-Khine, Tin-Tin-Thin, Myo Khin, Than-Saw & San-Shwe (2003). Impact of Deworming on the Growth of Schoolchildren in Yangon. In: *Controlling Disease Due to Helminth Infections*. Crompton, D.W.T., Montresor, A, Nesheim, M.C. & Savioli L (Eds.), Geneva: World Health Organization, pp. 43-54.

**Publications on malaria**

**Thein-Hlaing** & Myint-Myint-Soe (1989). Population mobility and malaria contraction on either side of Bago Yoma in Bago Division. *Burma Health Sci. Res. J.*, 1: 118-121

**Thein-Hlaing** & Tin-Maung-Maung (1990). A knowledge-perception-behavior study on malaria in two island villages and two timber extraction camps in Tanintharyi Division. *Myanmar Health Sci. Res. J.*, 2: 1-8.

**Publications on AIDS/HIV infection**

**Thein-Hlaing** (1990). Epidemiological research on AIDS/HIV infection in Myanmar. *DMR Bull.*, 4: 1-12.

**Thein-Hlaing**, San-Shwe, Pe-Than-Htun, Ohn-Maung, Myint-Htoo & Maung-Maung-Lwin (1993). A knowledge -attitudes-practices study on AIDS/HIV infection in intravenous drug users at Yangon Drug Dependency Treatment Centre. *Myanmar Health Sci. Res. J.*, 5: 67-71. **(Funded by WHO/SEARO in New Delhi)**

**Thein-Hlaing**, Pe-Than-Htun & Soe-Lwin (1993). Factors associated with HIV seroprevalence among intravenous drug users in Yangon. *Myanmar Health Sci. Res. J.*, 5: 59-66. **(Funded by WHO/SEARO in New Delhi)**

**Publications on acute diarrhoea & dysentery**

Aung-Myo-Han, Khin-Maung-U, **Thein-Hlaing**, Bozikov, J., Dezelic, G. & Cvjetanovic, B. (1985). Epidemiological model of acute bacterial and viral diarrhoeal diseases. *J. Diar. Dis. Res.*, 3: 65-72.

Aung-Myo-Han, Khin-Nwe-Oo, Tin-Aye & **Thein-Hlaing** (1986). Personal toilet after defecation and the degree of hand contamination according to different methods used. *J. Trop. Med. Hyg.*, 89: 237-241.

Aung-Myo-Han, Tin-Aye & **Thein-Hlaing** (1987). An outbreak of dysentery due to *Shigella dysenteriae* 1 in Rangoon, Burma. *J. Diar. Dis. Res.*, 5: 30-35.

Aung-Myo-Han & **Thein-Hlaing** (1989). Prevention of diarrhoea and dysentery by hand washing. *Trans. Roy. Soc. Trop. Med. Hyg.*, 83: 128-131.

Khin-Nwe-Oo, Aung-Myo-Han, **Thein-Hlaing** & Tin-Aye (1991). Bacteriologic studies of food and water consumed by children in Myanmar: 1. The nature of the contamination. *J. Diar. Dis. Res.*, 9: 87-90.

Aung-Myo-Han, Khin-Nwe-Oo, Tin-Aye & **Thein-Hlaing** (1991). Bacteriologic studies of food and water consumed by children in Myanmar: 2. Lack of association between diarrhoea and contamination of food and water. *J. Diar. Dis. Res.*, 9: 91-93.

**Publications on cancer**

**Thein-Hlaing** (1972). The purpose of setting up a cancer registry in Burma. *Burma Med. J.*, 20: 85-88.

Tin-Aung & **Thein-Hlaing** (1976). A study on epidemiology of cancer of larynx in Greater Rangoon. *Burma Med. J.*, 22: 17-25.

**Thein-Hlaing** & Thein-Maung-Myint (1978). Risk factors of breast cancer in Burma. *Int. J. Cancer*, 21: 432-438.

**Thein-Hlaing** (1991). Epidemiological research on cancer in Myanmar. *DMR Bull.*, 5: 1-14.

#### **Publications on human reproductive health**

**Thein-Hlaing** (1995). Knowledge-attitude-practice studies on contraception in Myanmar. *DMR Bull.*, 9, 1-18.

Than-Than-Tin, Mya-Thida & **Thein-Hlaing** (1996). Perspectives on obstetric care in Myanmar: Future directions for research. *DMR Bull.*, 10: 1-21.

Than-Than-Tin, San-Shwe, **Thein-Hlaing** & Myint-Myint-Soe (1996). Male participating in birth spacing. *Myanmar Health Sci. Res. J.*, 8: 155-157.

#### **Publications on other topics of interest**

**Thein-Hlaing** (1970). *Epidemiology of Snakebites in Burma*. Diploma of Preventive & Tropical Medicine Dissertation, Institute of Medicine 1, Rangoon, Burma.

**Thein-Hlaing** & Aung-Myo-Han (1982). Comparative analysis between mortality of insured workers in industrial establishments and of working age population in Rangoon. *Burma Med. J.*, 28: 1-18.

Mya-Win, **Thein-Hlaing** & Aung-Tun-Thet (1985). Occupational health problems of toddy-palm tree climbers. *Burma Med. J.*, 31: 178-192.

**Thein-Hlaing** & Maung-Maung (1989). An epidemiological profile of laparotomy cases in Yangon Children's Hospital. *Myanmar Health Sci. Res. J.*, 1: 162-166.

**Thein-Hlaing** (1990). Emergency laparotomy in Yangon General Hospital. *Myanmar Health Sci. Res. J.*, 2: 25-31.

**Thein-Hlaing** & Myat-Lay-Kyin (1992). Nutritional status and rate of growth in children of rural Taikkyi. *Myanmar Health Sci. Res. J.*, 3: 111-118.

San-Shwe, Thane-Toe, **Thein-Hlaing**, Ni-Ni-Win, Tin-Maung-Maung & Moe-Thida (1992). Epidemiology of sports injury in Myanmar athletes. *Myanmar Health Sci. Res. J.*, 4: 96-99.