

Primary Trauma Care Course Report

Mahosot Hospital
Vientiane Capital, Lao PDR

Monday, 10th January – Friday 14th January 2022

Executive Summary

The 5-day PTC 2-1-2 course was delivered at Mahosot Hospital, Vientiane Capital, Lao PDR. This was the sixth full PTC Course training trainers in the Lao PDR. It was sponsored and organized by both the University of Health Sciences and Health Leadership International with the support of the Ministry of Health, Lao PDR. The funding for this PTC training was provided by the Seattle, WA USA based non-profit organization Health Leadership International (HLI). HLI has been working with UHS and the Ministry of Health providing PTC training courses in Lao since 2017.

The goal of the PTC training is to train key emergency medicine providers at UHS and at the Provincial and District levels in the hopes of spreading the PTC model throughout the Lao PDR. This certified training is supported by the Ministry of Health and the University of Health Sciences.

Key Staff Involved in Planning and Coordinating

Dr. Khamsay Detleuxay, the Deputy Director of Department of Healthcare and Rehabilitation and the Director of the Emergency Medicine residency at UHS is the Director of the Primary Trauma Care training to be conducted in the Lao PDR at the Provincial and District levels. He provided medical leadership for the MoH and UHS approval, preparation, organization, and invitation of attendees for the course.

Course Participants for 2-1-2 Instructor's Course

The course participants were selected by Dr. Khamsay Detleuxay and approved by the MoH and UHS for participation in this 2-1-2 training of trainers for PTC. Twelve emergency medical residents were participants for this training. For the last 2 day will be surgery residents and EM staff of Mittaphab and Mohosot Hospitals.

PTC Course Leadership

Lao Leadership:

Course Director: Dr. Khamsay Detleuxay; PTC Lao Director; Anesthesiology, Deputy Director of Department of Healthcare and Rehabilitation; Director of EM Residency; UHS

Course Coordinator: Dr. Bunkong Keokhamhong – The EM staff of Mittaphab hospital, PTC instructor, UHS

Health Leadership International Advisors:

Dr. Cam McIntyre – HLI Financial Director

Reba McIntyre, LICSW, PhD- HLI Liaison with PrimaryTraumaCareFoundation.org

PTC Faculty - Clinical Training Team

Course Director - Dr. Khamsay Detleuxay MD

Instructors

Dr. Tim SIHANAD	EM staff of Mahosot hospital
Dr. Bounlom SANTISOUK	EM staff of Sethathirat hospital
Dr. Thitmany KOMMAMEUANG	Third year EM resident
Dr. Dr. Khounthavisouk PHAOUTHAI	Third year EM resident

PTC Course Administration Team

Course Administrator - Dr. Khamsay Detleuxay and Dr. Bunkong Keokhamhong



Course Director and Instructors

The First 2-Day PTC Program

The PTC Program was taught primarily in Laotian. Chaired by Dr. Khamsay Detleuxay, Deputy Director of Department of Healthcare and Rehabilitation.

See Appendix A for the course schedule for the 2-day PTC (Instructor Course).

The instructor 1-Day PTC Program - Day 3

See Appendix B for the course schedule for the Instructor's Course.

PTC Instructor Course Participants

See Appendix C for a list of the 2-1-2 course participants.

Summary of Pre and Post MCQ & Confidence Matrix Scores

Test results for the trainer group (January 10-11, 2022) At Mahosot Hospital

No	NAME IN ENGLISH	Hospital	Age	Sex	PRETEST	POSTTEST
1	Dr. Nanthida LITHIDETH	Sethathirat	31	F	13/20	18/20
2	Dr. Somsay THANNASINE	Xiengkhuang	35	M	14/20	18/20
3	Dr. Bounkhong INTHAVONG	UHS intern	27	M	17/20	18/20
4	Dr. Phaithong PHENPANYA	Baeng Dis.	34	F	15/20	18/20
5	Dr. Vilay MANIVONG	Kham Dis.	30	M	16/20	12/20
6	Dr. Jorvue YIANOUC HONGTENG	Luangprabang	33	M	16/20	16/20
7	Dr. Khanthana PHANYASAVATH	Borikhamxai	27	M	11/20	14/20
8	Dr. Phonepaserth VONGPHOUKHAM	UHS intern	27	M	13/20	16/20
9	Dr. Amphayvan VANTHANOUVONG	Mahosot	43	F	11/20	13/20
10	Dr. Phetsamay VONGNAPHAN	103 hospitals	32	F	17/20	17/20
11	Dr. Phaengkham ONDALA	Khammoun	27	F	15/20	19/20
12	Dr. Sourivong KHOUNTHIKOUMMAN	Luangprabang	29	M	18/20	20/20

Test results for the trainee group (January 13-14, 2022) At Mahosot Hospital

No	NAME IN ENGLISH	Hospital	Age	Sex	PRETEST	POSTTEST
1	Dr. Phaithong Vaniphat	Mittaphab	29	M	13/20	17/20
2	Dr. Kongthong Panyalack	Surgical resident	26	M	12/20	18/20
3	Dr. Theppharack Chandara	Surgical resident	26	M	12/20	18/20
4	Dr. Nakhalth Souphanthong	Surgical resident	26	M	13/20	18/20
5	Dr. Phoudthasone Vandkonevilai	Surgical resident	26	M	13/20	18/20
6	Dr. Xaiphone Nanthavong	Surgical resident	30	M	12/20	20/20
7	Dr. Fueha Youamivang	Surgical resident	26	M	13/20	15/20
8	Dr. Ketsamai Chansemaueng	Saravan	29	M	8/20	18/20

9	Dr. Larnoy Boumanychan	Surgical resident	26	M	14/20	16/20
10	Dr. Daophanit Vongvisouk	Mahosot	26	F	12/20	12/20
11	Dr. Khounthony Chalernphon	Attapu	25	M	15/20	19/20
12	Dr. Sounthone Vorachite	Attapu	36	M	10/20	16/20

ແບບທົດສອບຄວາມໝັ້ນໃຈກ່ອນການຮຽນ

Pre-Course Confidence Matrix on January 10, 2022

ກະລຸນາຕື່ມເຄື່ອງໝາຍ X ໃສ່ບ່ອນວ່າງທີ່ຖືກກັບທ່ານທີ່ສຸດ

Please put a 'X' in the box that best applies to you

1 = ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ

5 = ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ

1 = not confident at all

5 = completely confident

ເຈົ້າມີຄວາມໝັ້ນໃຈໃນການປິ່ນປົວກໍລະນີເຫຼົ່ານີ້ຫຼາຍປານໃດ :		1	2	3	4	5
How confident do you feel in managing?						
A	ເດັກນ້ອຍອາຍຸ 5 ປີທີ່ມີກະດູກອ່າງຊາມຫັກ A 5-year-old child with a fractured pelvis	4	6	2		
B	ແມ່ຍິງອາຍຸ 30 ປີ ຖືພາ ທີ່ມີກະດູກກົກຂາຫັກ A 30-year-old week pregnant woman with a fractured femur	4	3	5		
C	ຜູ້ຊາຍອາຍຸ 25 ປີທີ່ຖືກມົດແທງຄາຢູ່ທ້ອງ A 25-year-old man with a knife in his abdomen	5	5	1	1	
D	ຜູ້ຍິງອາຍຸ 60 ປີທີ່ມີບາດແຜໄຟໄໝ້ ຫຼື ນໍ້າຮ້ອນລວກ 40 % A 60-year-old female with 40 % burns	2	5	3	2	
E	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ບໍ່ໄດ້ສະຕິ, ມີວົງຕາດໍາຍະກວ້າງອອກແລະບໍ່ຕອບຕໍ່ແສງ A 50-year-old man unconscious with a fixed dilated pupil	1	4	2	5	
F	ຜູ້ຊາຍອາຍຸ 20 ປີມີສະຕິຕິແຕ່ບໍ່ສາມາດເໜັງຕີງຂາທັງສອງໄດ້ A 20-year-old male who is conscious but cannot move his legs	1	1	5	5	
G	ເດັກນ້ອຍອາຍຸ 2 ປີທີ່ຖືກກະທົບຂາຕັດຂາດແລະມີເລືອດໄຫຼຫຼາຍ A 2-year-old child with major hemorrhage from a traumatic amputation of his leg	4	6	2		
H	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ມີອາການກໍາແຫ້ງຍ້ອນພາວະອາກາດອ້ງໃນຜິ້ງເອິກແບບມີຄວາມດັນສູງ A 50-year-old man cyanosed from a tension pneumothorax	3	8	1		
Total		24	38	21	13	

ແບບທົດສອບຄວາມໝັ້ນໃຈຫຼັງການຮຽນ

Post-Course Confidence Matrix on January 11, 2022

ກະລຸນາຕື່ມເຄື່ອງໝາຍ X ໃສ່ບ່ອນວ່າງທີ່ເໝາະສົມກັບເຈົ້າທີ່ສຸດ

Please put a cross 'X' in the most appropriate column.

1 = ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ 5 = ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ

1 = not confident at all 5 = completely confident

ເຈົ້າມີຄວາມໝັ້ນໃຈໃນການປິ່ນປົວກໍລະນີເຫຼົ່ານີ້ຫຼາຍປານໃດ :

How confident do you feel in managing?

		1	2	3	4	5
A	ເດັກນ້ອຍອາຍຸ 5 ປີທີ່ມີກະດູກອ່າງຊາມຫັກ A 5-year-old child with a fractured pelvis			5	6	1
B	ແມ່ຍິງອາຍຸ 30 ປີ ຖືພາທີ່ມີກະດູກກົກຂາຫັກ A 30-year-old week pregnant woman with a fractured femur			3	7	2
C	ຜູ້ຊາຍອາຍຸ 25 ປີທີ່ຖືກມົດແທງຄາຢູ່ທ້ອງ A 25-year-old man with a knife in his abdomen			3	7	2
D	ຜູ້ຍິງອາຍຸ 60 ປີທີ່ມີບາດແຜໄຟໄໝ້ຫຼືນ້ຳຮ້ອນລວກ 40 % A 60-year-old female with 40 %burns			2	5	5
E	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ບໍ່ໄດ້ສະຕິ, ມີວົງຕາດຳຍະກວ້າງອອກແລະບໍ່ຕອບຕໍ່ແສງ A 50-year-old man unconscious with a fixed dilated pupil			2	6	4
F	ຜູ້ຊາຍອາຍຸ 20 ປີມີສະຕິຕິແຕ່ບໍ່ສາມາດເໜັງຕີງຂາທັງສອງໄດ້ A 20-year-old male who is conscious but cannot move his legs			3	8	1
G	ເດັກນ້ອຍອາຍຸ 2 ປີທີ່ຖືກກະທົບຂາຕັດຂາດແລະມີເລືອດໄຫຼຫຼາຍ A 2-year-old child with major hemorrhage from a traumatic amputation of his leg		1	7	3	1
H	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ມີອາການກຳແຫຼ້ຍ້ອນພາວະອາກາດອັງໃນຜິ້ງເອິກແບບມີຄວາມດັນສູງ A 50-year-old man cyanosed from a tension pneumothorax			2	8	2
	Total		1	27	49	18

ແບບທົດສອບຄວາມໝັ້ນໃຈກ່ອນການຮຽນ

Pre-Course Confidence Matrix on January 13, 2022

ກະລຸນາຕື່ມເຄື່ອງໝາຍ X ໃສ່ບ່ອນວ່າງທີ່ຖືກກັບທ່ານທີ່ສຸດ

Please put a 'X' in the box that best applies to you

1 = ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ

5 = ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ

1 = not confident at all

5 = completely confident

	ເຈົ້າມີຄວາມໝັ້ນໃຈໃນການປິ່ນປົວກໍລະນີເຫຼົ່ານີ້ຫຼາຍປານໃດ : How confident do you feel in managing?	1	2	3	4	5
A	ເດັກນ້ອຍອາຍຸ 5 ປີທີ່ມີກະດູກອ່າງຊາມຫັກ A 5-year-old child with a fractured pelvis	3	2	5	1	1
B	ແມ່ຍິງອາຍຸ 30 ປີ ຖືພາ ທີ່ມີກະດູກກົກຂາຫັກ A 30-year-old week pregnant woman with a fractured femur		3	3	3	3
C	ຜູ້ຊາຍອາຍຸ 25 ປີທີ່ຖືກມົດແທງຄາຢູ່ທ້ອງ A 25-year-old man with a knife in his abdomen	2	2	5	1	2

D	ຜູ້ຍິງອາຍຸ 60 ປີທີ່ມີບາດແຜໄຟໄໝ້ ຫຼື ນໍ້າຮ້ອນລວກ 40 % A 60-year-old female with 40 % burns	2		4	5	1
E	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ບໍ່ໄດ້ສະຕິ, ມີວົງຕາດໍາຍະກວ້າງອອກແລະບໍ່ຕອບຕໍ່ແສງ A 50-year-old man unconscious with a fixed dilated pupil	2	4	2	3	1
F	ຜູ້ຊາຍອາຍຸ 20 ປີມີສະຕິແຕ່ບໍ່ສາມາດເໜັງຕີງຂາທັງສອງໄດ້ A 20-year-old male who is conscious but cannot move his legs		4	3	4	1
G	ເດັກນ້ອຍອາຍຸ 2 ປີທີ່ຖືກກະທົບຂາຕັດຂາດແລະມີເລືອດໄຫຼຫຼາຍ A 2-year-old child with major hemorrhage from a traumatic amputation of his leg		6	3	1	2
H	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ມີອາການກໍາແຫຼ້ຍ້ອນພາວະອາກາດອັງໃນຜຶ້ງເອິກແບບມີຄວາມດັນສູງ A 50-year-old man cyanosed from a tension pneumothorax	2	2	6	2	
	Total	11	23	31	20	11

ແບບທົດສອບຄວາມໝັ້ນໃຈຫຼັງການຮຽນ

Post-Course Confidence Matrix on January 14, 2022

ກະລຸນາຕື່ມເຄື່ອງໝາຍ X ໃສ່ບ່ອນວ່າງທີ່ເໝາະສົມກັບເຈົ້າທີ່ສຸດ

Please put a cross 'X' in the most appropriate column.

1 = ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ

5 = ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ

1 = not confident at all

5 = completely confident

ເຈົ້າມີຄວາມໝັ້ນໃຈໃນການປິ່ນປົວກໍລະນີເຫຼົ່ານີ້ຫຼາຍປານໃດ :

How confident do you feel in managing?

		1	2	3	4	5
A	ເດັກນ້ອຍອາຍຸ 5 ປີທີ່ມີກະດູກອ່າງຊາມຫັກ A 5-year-old child with a fractured pelvis				8	4
B	ແມ່ຍິງອາຍຸ 30 ປີ ຖືພາທີ່ມີກະດູກກົກຂາຫັກ A 30-year-old week pregnant woman with a fractured femur				8	4
C	ຜູ້ຊາຍອາຍຸ 25 ປີທີ່ຖືກມົດແທງຄາຢູ່ທ້ອງ A 25-year-old man with a knife in his abdomen			1	7	4
D	ຜູ້ຍິງອາຍຸ 60 ປີທີ່ມີບາດແຜໄຟໄໝ້ ຫຼື ນໍ້າຮ້ອນລວກ 40 % A 60-year-old female with 40 % burns				8	4
E	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ບໍ່ໄດ້ສະຕິ, ມີວົງຕາດໍາຍະກວ້າງອອກແລະບໍ່ຕອບຕໍ່ແສງ A 50-year-old man unconscious with a fixed dilated pupil				10	2
F	ຜູ້ຊາຍອາຍຸ 20 ປີມີສະຕິແຕ່ບໍ່ສາມາດເໜັງຕີງຂາທັງສອງໄດ້ A 20-year-old male who is conscious but cannot move his legs				9	3
G	ເດັກນ້ອຍອາຍຸ 2 ປີທີ່ຖືກກະທົບຂາຕັດຂາດແລະມີເລືອດໄຫຼຫຼາຍ A 2-year-old child with major hemorrhage from a traumatic amputation of his leg			1	8	3
H	ຜູ້ຊາຍອາຍຸ 50 ປີທີ່ມີອາການກໍາແຫຼ້ຍ້ອນພາວະອາກາດອັງໃນຜຶ້ງເອິກແບບມີຄວາມດັນສູງ A 50-year-old man cyanosed from a tension pneumothorax				8	4
	Total			2	66	28

1. ປະເມີນຄວາມໝັ້ນໃຈກ່ອນການຝຶກອົບຮົມຫຼັກສູດ (ໃຊ້ຕອນທ້າຍຂອງມື້ທີ 3)

Pre-Course Confidence Matrix (administered at end of day 3)

ກະລຸນາໃຫ້ຄະແນນໃນລະຫວ່າງ 1-5 (1=ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ, 5=ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ)

Please Score 1-5 (1= not confident at all; 5=very confident)

Do you feel confident to: ທ່ານມີຄວາມໝັ້ນໃຈຊໍາໃດໃນການ:

	1	2	3	4	5
Teach a PTC Skill ສອນທັກສະ PTC	1	2	4	5	
Deliver a PTC lecture ຂຶ້ນທ້ອງສອນບົດຮຽນ PTC	1	2	4	4	1
Run a trauma scenario ຄຸມການສອນກໍລະນີຈ	2	1	5	4	
Run a discussion group ນໍາການສົນທະນາເປັນກຸ່ມ	1	2	3	4	2
Total	5	7	16	17	3

ກະລຸນາໃຫ້ຄະແນນໃນລະຫວ່າງ 1-5 (1=ບໍ່ມີຄວາມເຂົ້າໃຈເລີຍ, 5=ມີຄວາມເຂົ້າໃຈຫຼາຍທີ່ສຸດ)

Please Score 1-5 (1= not confident at all; 5=very confident)

Do you feel confident to: ທ່ານມີຄວາມໝັ້ນໃຈຊໍາໃດໃນການ:

	1	2	3	4	5
Organize a 2-day PTC course ຈັດຕັ້ງການຝຶກອົບຮົມ PTC 2 ມື້	1	2	4	4	1
Complete registration paperwork for course ສໍາເລັດເອກະສານການຂຶ້ນທະບຽນສໍາລັບຫຼັກສູດ	1	3	2	5	1

Prepare course materials ກະກຽມເອກະສານການຝຶກອົບຮົມ	1	2	4	4	1
Score/Evaluate Attendees Pre and Post MCQs and Confidence Matrix ເກັບກຳແລະສະຫຼຸບຄະແນນກ່ອນ ແລະ ຫຼັງ MCQ ແລະ ຕາຕະລາງວັດແທກຄວາມໝັ້ນໃຈ	1	2	3	4	2
Total	4	9	13	17	5

2. ປະເມີນຄວາມໝັ້ນໃຈໃນການເປັນຄູສອນຫລັງຈາກຝຶກອົບຮົມທັງກສຸດຄູ (ໃຊ້ໃນມື້ທີ5)

Post-Course Confidence Matrix (administer on day 5)

ກະລຸນາໃຫ້ຄະແນນໃນລະຫວ່າງ1-5 (1=ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ, 5=ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ)

Please Score 1-5 (1= not confident at all; 5=very confident)

Do you feel confident to: ທ່ານມີຄວາມໝັ້ນໃຈຊໍ້າໃດໃນການ:

	1	2	3	4	5
Teach a PTC Skill ສອນທັກສະ PTC			2	5	5
Deliver a PTC lecture ການບັນຍາຍບົດຮຽນ PTC			1	7	4
Run a trauma scenario ນຳພາການສອນກໍລະນີສຶກສາຄົນເຈັບກະທົບ				6	6
Run a discussion group ນຳພາການສົນທະນາເປັນກຸ່ມ				6	6
Total			3	24	21

ກະລຸນາໃຫ້ຄະແນນໃນລະຫວ່າງ1-5 (1=ບໍ່ມີຄວາມໝັ້ນໃຈເລີຍ, 5=ມີຄວາມໝັ້ນໃຈຫຼາຍທີ່ສຸດ)

Please Score 1-5 (1= not confident at all; 5=very confident)

Do you feel confident to: ທ່ານມີຄວາມໝັ້ນໃຈຊໍ້າໃດໃນການ:

	1	2	3	4	5
Organize a 2-day PTC course ຈັດຕັ້ງການຝຶກອົບຮົມ PTC 2 ມື້				6	6
Complete registration paperwork for course ສໍາເລັດເອກະສານການຂຶ້ນທະບຽນສໍາລັບຫຼັກສູດ				6	6
Prepare course materials ກະກຽມເອກະສານການຝຶກອົບຮົມ				6	6
Score/Evaluate Attendees Pre and Post MCQs and Confidence Matrix ເກັບກໍາ ແລະ ສະຫຼຸບຄະແນນກ່ອນ ແລະ ຫຼັງ MCQ ແລະ ຕາຕະລາງປະເມີນຄວາມໝັ້ນໃຈ				6	6
Total				24	24

PTC Course Evaluation, Training Feedback, Training Outcomes

The Second 2-Day PTC Program

See Appendix C for the course schedule for the 2-Day PTC program.

PTC Course Participants

See Appendix E for a list of the 2-day PTC course.

PTC Course Evaluation, Training Feedback, Training Outcomes

Recommendations and Conclusion

Excellent course for health providers on the life-saving methods for trauma care.

Continue ongoing PTC trainings for new providers in the Lao PDR.

Acknowledgments and Thanks

MoH, Lao PDR

Health Leadership International

Dr. Bounthom Xamonty - President of UHS

Dr. Khamsay Detleuxay- Deputy Director of the Department of Healthcare and Rehabilitation

Dr. Alongkone Phengsavanh - Vice Dean of Faculty of Medicine

Dr. Molina Choummanivong Director, International Relations

Appendix A: Course Schedule for the 2-1-2 Training

Day 1	10/01/2022			
Time/ Minutes	Topic	Slides	Leader	Timekeeper
8:30 / 30 min	Welcome, Intro, MCQ		Dr. Bounkong	
9:00/15 min	Local Trauma Perspective		Dr. Bounkong	
9:15/15 min	PTC Overview	1-13	Dr. Bounkong	
9:30/30 min	Trauma ABCD Primary Survey	14-37	Dr. Bounlom	
10:00/10 min	Break			
10:10/40 min	Airway & breathing	38-62	Dr. Tim	
10:50/35 min	Circulation & Shock	63-85	Dr. Khounthavysouk	
11:25/35 min	Chest Injuries	86-104	Dr. Thitmany	
12:00/45 min	Lunch Break			
12:45/80 min	Skills			
/20 min	Basic/Airway		Dr. Tim	Dr. Bounkong
/20 min	Advanced Airway		Dr. Thitmany	
/20 min	Cervical Spine/Log Roll		Dr. Bounlom	
/20 min	Chest Drains		Dr. Khounthavysouk	
14:05/10 min	Break			
14:15/60 min	Abdominal Pelvic Limb trauma	105-141	Dr. Bounlome	
15:05/15 min	Demonstration scenario		All leader	
15:20/70 min	Scenario Practice			Dr. Bounkong
	Scenario 1		Dr. Thitmany	
	Scenario 2		Dr. Tim	
	Scenario 3		Dr. Bounlom	
	Scenario 4		Dr. Khounthavysouk	
16:30/5 min	Overview & Summary		Dr. Bounkong	

Day 2	11/01/2022			
Time/Minutes	Topic	Slides	Leader	
8:30/45min	Head & Spinal Injuries	125-182	Dr. Khounthavysouk	
9:15/30 min	Trauma in Children & Pregnancy	183-214	Dr. Thitmany	
9:45/30 min	Burns	215-235	Dr. Tim	
10:15/15 min	Break			
10:30/ 80 min	Workshops		Leader	
20 min	Analgesia		Dr. Khounthavysouk	Dr. Bounkong
20 min	Transport		Dr. Bounlom	
20 min	Peds Trauma		Dr. Thitmany	
20 min	Neuro Assessment		Dr. Tim	
12:00/ 30 min	Secondary Survey	236-248	Dr. Bounlom	
12:30/40 min	Lunch Break			
13:10/50 min	Disaster Management		Dr. Thitmany	
14:00/80 min	Scenarios		Leader	
/20 min	Scenario 5		Dr. Thitmany	Dr. Bounkong
/20 min	Scenario 6		Dr. Tim	
/20 min	Scenario 7		Dr. Bounlom	
/20 min	Scenario 8		Dr. Khounthavysouk	
15:20/10 min	Break			
15:30/15 min	Repeat MCQ		Dr. Bounkong	
15:45/20 min	Summary, Feedback Evaluation		Dr. Bounkong	
16:05/15 min	Close, discussion Planning for Instructor Day		Dr. Bounkong	
16:20/15 min	Certificates		Leader	

Appendix B: Course Schedule for Day 3 - Instructor Course 2-1-2 Training

Day 3	12/01/2022		
Time/Minutes	Topics	Slides	Leader
8:00/ 15 min	Registration, Fill in forms		
8:15/15 min	Welcome, Intro Educational Philosophy	1-4	Dr. Bounkong
8:30/55 min	Session I: Communications Skills	5-10	Dr. Tim
/15 min	Training input		
/5 min	Explain Feedback		
/30 min	Practical Workshop		
/5 min	Reflection & Summary		
9:25/80 min	Session 2: Interactive Teaching	11-25	Dr. Bounlom
/20 min	Training Input 1: Questions In Lectures		
/15 min	Practical Workshop		
/5 min	Reflections		
/15 min	Training Input 2: PTC Workshop		
/20 min	Practical Workshop		
/5 min	Reflection & Summary		
10:45/20 min	Break		
11:05/80 min	Session 3: Scenarios	27-34	Dr. Thitmany
/20 min	Training Input: The Training Scenario		
/15 min	Practical Scenario		
/40 min	Practical Workshop		
/5 min	Reflection & Summary		
12:25/ 45 min	Lunch Break		
13:10/80 min	Session 4: Skill Stations	35-43	Dr. Bounkong
/15 min	Training Input 1: Teaching The skill with demonstration		
/15 min	Running the Skill Station With demonstration		
/5 min	Organization of the skill Stations		
/40 min	Practical Workshop		

	Set up and practice Role Play Log roll		
14:30/35 min	Session 5: How to Run a PTC Course	45-50	Dr. Tim
/15 min	In a new venue		
/15 min	Who does what the next day		
/5 min	Taking charge of the room And safety		
15:05/15 min	Break		
15:20/90 min	Section 6: Slides & Lectures	53-58	Dr. khounthavysouk
/10 min	Training input 1: Using slides effectively		
/20 min	Practical Workshop: Speaking with slides on a Laptop		
/15 min	Training input 2: Preparing PTC lectures		
/40 min	Final Presentations		
/5 min	Final Feedback		
16:50/10 min	Confidence Matrix, Evals Summary, Certificates		
17:00	Finish		

Appendix C: Course Schedule for Day 4 and 5 – PTC 2-day course
Day 4 13/01/2022

Time/ Minutes	Topic	Slides	Leader	Notes
8:30 / 30 min	Welcome, Intro, MCQ		Boukong	
9:00/15 min	Local Trauma Perspective		Boukong	
9:15/15 min	PTC Overview	1-12	Boukong	
9:30/30 min	Truama ABCD Primary Survey	13-37	Phetsamai	Blue
10:00/10 min	Break		All	
10:10/40 min	Airway & Breathing	38-62	Soulivong + Phaithong	Green
10:50/35 min	Circulation & Shock	63-85	Phonepasert	Red
11:25/35 min	Chest Injuries	86- 104	Khanthana	Yellow
12:00/45 min	Lunch Break		All	
12:45/80 min	Skills			
/20 min	Basic/Airway		All Green	
/20 min	Advanced Airway		All Yellow	
/20 min	Cervical Spine/Log Roll		All Blue	
/20 min	Chest Drains		All Red	
14:05/10 min	Break		All	
14:15/60 min	Abdominal Pelvic Limb trauma	105- 141	Phetsamai + Somsaiy	Yellow
15:05/15	Demonstration scenario		All trainers	

min				
15:20/70 min	Scenario Practice			
	#1 Airway management		All Yellow	
	#2 Abdominal trauma		All Green	
	#3 Shock		All Blue	
	#4 Chest trauma		All Red	
16:30/5 min	Overview & Summary		Bounkong	

Day 5 14/01/2022

Time/ Minutes	Topic	Slides	Leader	Notes
8:30/45min	Head & Spinal Injuries	142-182	Vilay	Red
9:15/30 min	Trauma in Children & Pregnancy	183-214	Jorveu + Nanthida	Blue
9:45/30 min	Burns	215-235	Bounkhong	Green
10:15/15 min	Break			
10:30/ 80 min	Workshops			
20 min	Analgesia		All Red	
20 min	Transport		All Yellow	
20 min	Peds Trauma		All Blue	
20 min	Neuro Assessment		All Green	

12:00/ 30 min	Secondary Survey	236-248	Thitmany	
12:30/40 min	Lunch Break			
13:10/50 min	Disaster Management			
14:00/80 min	Scenarios			
/20 min	#5 Burn		All Blue	
/20 min	#6 Head trauma		All Green	
/20 min	#7 Sepsis		All Yellow	
/20 min	#8 UXO victim		All Red	
15:20/10 min	Break			
15:30/15 min	Repeat MCQ		Boukong	
15:45/20 min	Summary, Feedback &Evaluation		Boukong	
16:05/15 min	Close, discussion Planning for Instructor Day		Boukong	
16:20/15 min	Certificates		Leader	

Appendix D: Course 2- 1-2 Participants (Instructor Course Participants)

Name & Surname	Hospital	Degree	Specialty	M/F	Age
Dr. Nanthida LITHIDETH	Sethathirat	MD	EM resident	F	31

Dr. Somsay THANNASINE	Xiengkhuang	MD	EM resident	M	35
Dr. Bounkhong INTHAVONG	UHS intern	MD	EM resident	M	27
Dr. Phaithong PHENPANYA	Baeng Dis.	MD	EM resident	F	34
Dr. Vilay MANIVONG	Kham Dis.	MD	EM resident	M	30
Dr. Jorvue YIANOUCHEONGTENG	Luangprabang	MD	EM resident	M	33
Dr. Khanthana PHANYASAVATH	Borikhamxai	MD	EM resident	M	27
Dr. Phonepaserth VONGPHOUKHAM	UHS intern	MD	EM resident	M	27
Dr. Amphayvan VANTHANOUVONG	Mahosot	MD	EM resident	F	43
Dr. Phetsamay VONGNAPHAN	103 hospitals	MD	EM resident	F	32
Dr. Phaengkham ONDALA	Khammoun	MD	EM resident	F	27
Dr. Sourivong KHOUNTHIKOUMMAN	Luangprabang	MD	EM resident	M	29

Appendix E: PTC 2-day Course Participants

First/Last Name	Hospital	Degree	Speciality	M/F	Age
Dr. Phaithong Vaniphath	Mittaphab	MD	Anesthesia Res.	M	29
Dr. Kongthong Panyalack	Surgical resident	MD	Anesthesia Res.	M	26
Dr. Theppharack Chandara	Surgical resident	MD	Anesthesia Res.	M	26
Dr. Nakhalith Souphanthong	Surgical resident	MD	Anesthesia Res.	M	26
Dr. Phoudthasone Vandkonevilai	Surgical resident	MD	Anesthesia Res.	M	26
Dr. Xaiphone Nanthavong	Surgical resident	MD	Surgery Resident	M	30
Dr. Fueha Youamivang	Surgical resident	MD	Surgery Resident	M	26
Dr. Ketsamai Chanseemaueng	Saravan	MD	Surgery Resident	M	29
Dr. Larnoy Boumanychan	Surgical resident	MD	Surgery Resident	M	26
Dr. Daophanit Vongvisouk	Mahosot	MD	Surgery Resident	F	26
Dr. Khounthony Chalernphon	Attapu	MD	Surgery Resident	M	25
Dr. Sounthone Vorachite	Attapu	MD	Surgery Resident	M	36