

D.3.3. Cases tested, implemented



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D.3.3 Cases tested, implemented

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1. INTRODUCTION

This deliverable describes how each Partner country tested and implemented new clinical cases in the medical curriculum in each partner universities. Firstly, created new cases according to identified learning outcomes. New cases will be tested by staffs and 5th students not be involved in the project at all (not control and not intervention groups). After appropriate feedback forms were used to gather responses for further improvement of the cases. The Partners agreed on the feedback form whether to take one standard form or create a different one to fit their needs.

2. CASES TESTED BY STAFF AND STUDENTS

Subsequence to the creation of the new case studies, each PCU will implement the case testing activity on staffs and medical students. The detail of testing sessions will be described as below.

2.1. Kazakhstan

2.1.1. Astana Medical University (AMU), Kazakhstan

6 new cases written by our tutors in the discipline «General Medical Practice» were tested with the interns of 6th Year "General Medicine" (3 groups) from December 20 to December 26, 2017. Each tutor tested his/her case to consider students' comments for subsequent amendments of cases.

Please see Annex 1 (1.1.1) for full information.

2.1.2. Karaganda State Medical University (KSMU), Kazakhstan

6 new cases for General Practice were tested on June 2017: 3 cases were tested on June 19, 2017 and 3 on June 21, 2017. 6 groups with 32 students of the 6th year of "General Medicine" have tested 6 cases according to cases. Case writers and tutors have also participated at testing and further modification the cases. Annex 1.1.2 of the report shows case name, schedule and tutors' name.

2.2. Ukraine

2.2.1. Zaporozhye State Medical University (ZSMU), Ukraine

6 cases on different surgical pathologies were tested on the 2nd of June. The students of the 5th year of study of Medical Faculty, 24 students in all, were divided into 3 groups, and each group tested 2 cases in presence of tutors and people, responsible for cases creation (Kostrovskyi O.M., Voloshyn O. M., Kapshytar O. O., Bilai A. I.)

Please see Annex 1 (1.2.1) for full information.

2.2.2. Bukovinian State Medical University (BSMU), Ukraine

6 new cases of internal medicine were tested in BSMU from 25 to 28 of September. All cases were tested by 5th and 6th year students (4 groups) during practical classes based on the problem-oriented training methodology. The duration of the class was at least 3 hours. At the end of the class students were offered questionnaires. According to the results of open discussion (tutors, persons who created the cases) and questionnaires, cases have been slightly edited.

Please see Annex 1 (1.2.2) for full information.

2.3 Vietnam

2.3.1 Hanoi Medical University (HMU), Vietnam

HMU created 6 cases in infectious disease for further implementation. Draft versions of the 6 VP cases were tested with 5th year students. 6 VP cases were tested with participation of 6 tutors and students, specialty "Medicine". Students tested the whole process by taking the D-PBL session. The cases were delivered, each lasted 3 hours. The Medical students of 5th year, total of 14 student were divided into 2 groups, each group tested 3 cases.

Prior to deliver these cases in OpenLabyrinth, 6 medical teachers of HMU were trained locally and discuss together in order to share their teaching experiences and well preparation for the testing activity. 6 VP cases in Infectious diseases were written in OpenLabyrinth.

Please see Annex 1 (1.3.1) for full information.

2.3.2 Hue University of Medicine and Pharmacy (HUMP), Vietnam

Six new VP cases including 2 internal medicine cases, 2 surgery cases, and 2 obstetrics cases were written in OpenLabyrinth for further implementation. Draft versions of the 6 VP cases were tested with 5th year medical students and clinical lecturers. Students tested the whole process by taking the D-PBL session. The cases were delivered each lasted 3 hours. The Medical students of 5th year, total of 15 student were divided into 3 groups: 5 students tested 2 internal medicine cases; 5 students tested 2 surgery cases; 5 students tested 2 obstetrics cases. 6 clinical lecturers divided into 3 groups, each group tested 2 cases.

Please see Annex 1 (1.3.2) for full information.

3. CASES MODIFICATION AFTER THE RESULTS OF TESTING

Feedbacks from students and tutor participating in the testing cases activity are collected to modify and further improve the content of the cases. Each PCU implements this stage and describes as below:

3.1. Kazakhstan

3.1.1. Astana Medical University (AMU), Kazakhstan

After cases testing, positive answers were received regarding the complexity and completeness of the developed cases. But some cases required modification: for example, 1. to complicate. 2. to add options. 3. make a description of echo-cardiography and etc. Taking into account all the comments, the tutors modified the cases before implementation. And by February 1, 2018 the cases were ready for implementation. 21 students took part in the cases testing.

Please see Annex 2 (2.1.1) for full information of the testing template.

3.1.2 Karaganda State Medical University (KSMU), Kazakhstan

6 groups by 36 students provided feedback for 6 GP new cases. 7 tutors received the feedback. Cases were modified and changes were implemented in response to feedback. KSMU's working group assessed the necessity of modification to cases from the feedback and implemented these changes to 6 cases. The cases were then reviewed by 3 General Practice departments (clinicians) for accuracy again. Annex 2.1.2 shows comments of the students after feedback.

3.2. Ukraine

3.2.1. Zaporozhye State Medical University (ZSMU), Ukraine

In general, all cases have received positive feedbacks from students regarding correctness and fullness of the developed cases. Feedback was provided by students and surgery-writers after 6 VP cases testing. The report on testing is presented as Annex 2 (2.2.1). Then the cases were modified according to the feedback, all 6 cases are ready for trainings with the 6th-year students of Medical Faculty (General Medicine)

3.2.2. Bukovinian State Medical University (BSMU), Ukraine

The feedback was provided by students after 6 VP cases from various fields of internal medicine. The BSMU team assessed the need for modification of cases from feedback and introduced these changes to 6 cases of VP, improved diagnostic and therapeutic search according to the initial symptom and fixed diagnosis. Then cases were considered by the appropriate narrow specialists again for accuracy.

Please see Annex 2 (2.2.2) for full information of the testing template.

3.3 Vietnam

3.3.1 Hanoi Medical University (HMU), Vietnam

A questionnaire was developed by HMU medical teachers, participating in project, to gather feedback from students after testing the VP D-PBL cases. The questionnaire consisted of 11 questions, including 5 'introduction' questions and 6 questions about the cases. According to suggestions and comments of staff and the students D - PBL cases. Students were respond positive feedbacks with 6 cases. These cases help students have chance to understand as many content as possible, and exchange more information related to medical issue. These cases are closed to reality issues, help student to gain more knowledge and against medical errors. Even the case is difficult to learn, but they still preferred to mention about matter of curiosity. Other comments were concerns regarding the technical delivery of D - PBL case in OpenLabyrinth, and these cases should have more imagine and more option in each step. Some point need to explain more or expropriate more information, for example patient's medical history.

Please see Annex 2 (2.3.1) for full information of the testing template.

3.3.2 Hue University of Medicine and Pharmacy (HUMP), Vietnam

We used questionnaire to collect students and clinical lecturers's responses to new clinical cases. The questionnaire consisted of 4 sections: Section 1: medical errors occurring in clinical cases are mentioned. Section 2: the experience of the lecturer / student when teaching / learning this clinical case. Section 3: learning Objectives, things to consider when teaching / learning this clinical case. Section 4: providing feedback after teaching / learning this clinical case.

Lecturers and students are provided the account to be able to track the VP cases in the OpenLabyrinth and remarked on the questionnaire. After collecting questionnaires, the feedback will be recorded to correct and complete the new VP clinical case

Please see Annex 2 (2.3.2) for full information of the testing template.

4. IMPLEMENTATION OF MODIFIED CASES INTO THE CURRICULA

After improving the content of the new cases to be more appropriate for each PCU, modified cases were taught in another group of medical students. In this phase, there is a higher number of students was invited to participate in the implementing cases activity than those in the previous testing cases activity. The detail of this activity in each PCU is described as below.

4.1. Kazakhstan

4.1.1 Astana Medical University (AMU), Kazakhstan

32 students (4 groups) of Year 5 "General Medicine" were selected for conducting tutorials with D - PBL. A schedule was drawn up taking into account the interdisciplinary approach. The correspondence of the case to the discipline of the module "General Medical Practice" (The table below). The tutorials were held from 06.02.2018 to

29.03.2018, 2 times a week, with duration of 3 hours a day. At the end of each case, an online essay was completed, which was developed on the Moodle platform.

№	The title of the unit	The title of the case	dates	Time
1	Unit 1 Cardiology	Headache	12.02.2018 г. 14.02.2018 г.	8.00 -11.00 11.00-14.00
2	Unit 2 Pulmonology, nephrology	Cough	06.02.2018 г., 08.02.2018 г.	8.00 -11.00 11.00-14.00
3	Unit 3 Gastroenterology, haematology	General Weakness	19.02.2018 г. 21.02.2018 г.	8.00 -11.00 11.00-14.00
4	Unit 4 Rheumatology, Endocrinology	Thirst	05.03.2018 г. 06.03.2018 г.	8.00 -11.00 11.00-14.00
5	Unit 5,6 Children's diseases in the work of GP	Difficult breathing	12.03.2018 г. 16.03.2018 г.	8.00 -11.00 11.00-14.00
6	Unit 7 Obstetrics and Gynecology	Bleeding	26.03.2018 г. 29.03.2018 г.	8.00 -11.00 11.00-14.00

The detailed classes schedule is performed in the Annex 3 (3.1.1).

4.1.2 Karaganda State Medical University (KSMU), Kazakhstan

The implementation of new 6 GP cases were conducted on students of the 5th year of General Medicine. Together with the Dean of the General Medicine, it was decided to carry out the implementation of case studies on 2 students' cohorts. According to GP Schedule for the 5th year students, the implementation of new cases started in 8 of November 2017 and finished on 3 January 2018. The first cohort consisted of two groups on Russian and two groups on Kazakh languages. The overall number of students was 32. The second cohort was the same but the implementation of cases started in 24 January 2018 and finished on 16 March 2018. All 6 cases were translated from Russian to Kazakh language.

The detailed classes schedule is performed in the Annex 3 (3.1.2).

4.2. Ukraine

4.2.1. Zaporozhye State Medical University (ZSMU), Ukraine

32 6th-year students of the Medical Faculty No1 (specialty "General Medicine) were chosen by random sampling for the tutorials on VP surgical cases with medical errors. The timetable for the students was modified in such a way that the tutorials were planned for the second half of December, 2017. The detailed classes schedule is performed in the Annex 3 (3.2.1).

The elective course "Training on medical errors in surgery" will be implemented as follows: 120 Hours, incl. 54 hours for classwork (36 hours for tutorials and 18 hours for lectures) and 66 hours for independent work.

Before the tutorials a lecture on D-PBL and medical errors was conducted for all students. A pre-test on identifying the level of students' knowledge was also conducted (36 questions on finding one best answer). 3 months after the tutorials the evaluation of knowledge for the students was conducted.

4.2.2. Bukovinian State Medical University (BSMU), Ukraine

Cases are implemented in the curricula, approved by the administration and the dean's office for students of the 6th year of the speciality of "general medicine". Classes will begin on November 13. It is planned to conduct classes on method of PBL 2 times a week for 3 hours (1 case for 2 sessions). Total number of groups are 08. Four groups will be engaged in branch cases, four will study linear cases. Before the session, the students will be given a lecture on the specifics of the training according to PBL method. The total period of study will consist of 6 weeks. All students will be tested on the topics of cases at the end of training (tentatively after 4 months).

The detailed classes schedule is performed in the Annex 3 (3.2.2).

4.3 Vietnam

4.3.1 Hanoi Medical University (HMU), Vietnam

06 case studies are scheduled and implemented during three weeks from 12nd to 30th March, approved by the Infectious Diseases Department and the Dean's office of fifth-year medical students. TAME classes are undertaken three times per week (every Monday, Wednesday and Friday), each case study is taught in 03 hours. Prior to teaching case studies, tutorials are conducted with the same length of time (3 hours). The detailed classes schedule is performed in the Annex 3 (3.3.1).

There are 05 groups of fifth-year students with speciality of "General medicine" engaging in learning the PBL method, each group consists of 07 students. Total of 35 students is introduced about the PBL method prior to implementing this teaching method. Apart from Typhoid fever case study, 05 groups of participants are learnt the entire 5 cases. The Typhoid fever case is considered as elective case because this disease is no longer common in Vietnam during the spring time (March). Hence, there are 15 students (2 groups) participated in the Typhoid fever class.

Regarding to the assessment, prior to the implementation of the first class, students undertake the pre-test (67 MCQs and T/F questions) to test their knowledge before exposure. In the final class, all students undertake the post-test to test their knowledge after exposure. These students will be also tested after 03 months (planned to conduct in June, 2018).

4.3.2 Hue University of Medicine and Pharmacy (HUMP), Vietnam

Fifty-six 5th year medical students (major in General Medicine program) were chosen for the tutorials on 6 clinical VP cases. We divided the students into 3 groups. They are group 1: study 2 internal medicine cases (24 students), Group 2: 2 surgery cases (17 students), Group 3: 2 obstetric cases (15 students). Each group of students studied only 2 cases of each specialized. Each student was provided with a personal account to review these cases upon completion of the course.

Curriculum of clinical cases began on May 7, 2018 and ending on June 16, 2018. The detailed classes schedule is performed in the Annex 3 (3.2.2).

We evaluated the learning motivation in the training against medical errors of 56 students before start of the course and after finished the course. Motivational scales include 4 domains: Feelings (affected): the feelings of students about the course as in actual clinical practice with 6 items, range 6 - 30; cognitive processing: students have the capacity to be knowledgeable about collecting, synthesizing, evaluating, and diagnosing based on clinical situations with 4 items, range 4 - 20; interaction and opportunity: Students have the opportunity to discuss with lecturers and students as well as make evidence-based decisions with 3 items, range 3 - 15; error awareness: Students are well aware of the importance and skill to prevent of the medical errors with 5 items, range 5 - 25.

We matched the intervention group of 56 students enrolled in the course and 56 students who did not participate in the same gender and learning outcomes in the fourth year. A total of 112 students were assessed through MCQs for each clinical case after 2 months of intervention. Score range of each student from 0 to 10.

ANNEXES 1: CASES TESTED BY STAFF AND STUDENTS

1.1 Kazakhstan

1.1.1 Astana Medical University (AMU), Kazakhstan

Schedule for testing new cases in AMU

No	The title of the case	Name and the surname of the tutor	Date of testing	Number of students
1	Case: Thirst (Diabetes mellitus)	Zhakupbekova.M; Nurpeissova R.;	20.12.2017 г.	21
2	Case: Headache (hyperpiesis)	BekbergenovaZh.; Nurpeissova R.;	21.12.2017 г.	21
3	Case: Difficult breathing (Bronchial asthma)	Nurpeissova R. Syzdykova A.S.	22.12.2017 г.	21
4	Case: Cough (Pneumonia) Author	Nurpeissova R.; Syzdykova A.S	25.12.2017 г.	21
5	Case: General Weakness (Anemia)	Shnaider K., Nurpeissova R.;	26.12.2017 г.	21
6	Case: Bleeding (abruption of placenta)	Tyan V., Issabaev.I	26.12.2017 г.	21

1.1.2 Karaganda State Medical University (KSMU), Kazakhstan

Timetable for testing new GP cases at KSMU

Date	New Cases	Tutors	Group No	Time
19.06.2017	Abdomen pain (myocardial infarction)	K. Dobler	6-107	13.30-16.10
	Bleeding (gastric ulcer)	A. Beysenaeva	6-111	
	Diarrhea (acute enteric infection)	A. Dyusembaeva	6-112	
21.06.2017	Breathlessness (bronchial asthma)	B.Otyنشiev	6-115	13.30-16.10
	Intoxication (acute rheumatic fever)	A. Ibysheva	6-118	

	Acute abdomen (ectopic pregnancy)	Zh.Kalbekov	6-119	
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1.2 Ukraine

1.2.1. Zaporozhye State Medical University (ZSMU), Ukraine

Schedule for testing new surgical VP cases at ZSMU

Dates	Time	group №	Tutors	Case
02.06.2017	8 ⁰⁰ -8 ⁴⁵	1	Associate Prof. A. M. Kostrovskiy Associate Prof. O. O. Furyk Assistant Prof. A. I. Bilai	Mykola Savin
	9 ⁰⁰ -9 ⁴⁵			Eduard Ivanov
	10 ⁰⁰ -10 ⁴⁵	2	Associate Prof. A. M. Kostrovskiy Assistant Prof. Kapshytar O.O Associate Prof. A.A. Kuznietsov	Prokhor Shaliapin
	11 ⁰⁰ -11 ⁴⁵			Zoia Strybok
	12 ⁰⁰ -12 ⁴⁵	3	Associate Prof. A. M. Kostrovskiy Assistant Prof. O. M. Voloshyn Associate Prof. M. V. Patsera	M.Huryliov
	13 ⁰⁰ -13 ⁴⁵			V. F. Sahan

1.2.2. Bukovinian State Medical University (BSMU), Ukraine

Schedule for testing new cases in BSMU

		25 th September	26 th September	27 th September	28 th September
Group 1 (V course)	9.00-12.30	Cardialgia (Infarction of myocardium)			
Group 2 (V course)	9.00-12.30		Fever and rash (Systemic lupus erythematosis)		
Group 3 (VI course)	9.00-12.30			Polyuria (Diabetes mellitus)	
Group 3 (VI course)	9.00-		Pallor of skin		

course)	12.30		(Anemia)		
Group 4 (VI course)	9.00-12.30	Diarrhea (Acute enteric infection)			
Group 4 (VI course)	9.00-12.30				Cough (Bronchial asthma)

1.3. Vietnam

1.3.1 Hanoi Medical University (HMU), Vietnam

Schedule for testing new cases in HMU

		21st September	22nd September
Group 1	13.30-14.45	Viral Hepatitis (Dr. Thu)	Typhoid (Ds Phuong)
	15.00-16.15	Tetanus (Dr. Duyet)	
Group 2	13.30-14.45	Streptococcus suis infection (Dr. Hoa)	Dengue hemorrhagic fever (Dr. Truong)
	15.00-16.15	HIV/AIDS (Dr. Dat)	

1.3.2. Hue University of Medicine and Pharmacy (HUMP), Vietnam

Schedule for testing new cases in HUMP

		7th August	8th August	9th August
Group 1 Internal medicine	13:30-15:00	Abdominal pain, jaundice (Dr. Tan)		
	15:00-16:30	Headache - subarachnoid hemorrhage (Dr. Yen)		
Group 2 Surgery	13:30-15:00		Acute appendicitis (Dr. Dung)	
	15:00-16:30		Gastrointestinal perforation (Dr. Phu)	
Group 3 Obstetrics	13:30-15:00			Postpartum hemorrhage (Dr. Long)
	15:00-16:30			Pre-eclampsia (Dr. Giang)

ANNEX 2: CASES MODIFICATION AFTER THE RESULT OF TESTING

2.1 Kazakhstan

2.1.1 Astana Medical University (AMU), Kazakhstan

After testing each case, the students of the 6th year were asked about the following questions:

1. The content of the case was for you:

- A) easy
- B) medium complexity
- C) complex

2. What caused the embarrassment?

- A) the conditions of the case
- B) selection of options
- C) other _____

3. Are there enough options for each step

- A) enough
- B) you still need to add options
- C) it is necessary to remove options
- D) other _____

No	Name of the case	CASES MODIFICATION AFTER THE RESULT OF TESTING
1	Case: Thirst (Diabetes mellitus) Author: Zhakupbekova M	<ul style="list-style-type: none"> • Increased the number of options at each step to 3-4 • Corrected grammatical errors • Supplemented the conditions by including the necessary analyzes and some laboratory data
2	Case: Headache (hyperpiesis) Author: Bekbergenova Zh.;	<ul style="list-style-type: none"> • Revised options at each step with complexity • Corrected grammatical errors • Supplemented the conditions by including the necessary analyzes and some laboratory data • Inserted an MRT image
3	Case: Difficult breathing (Bronchial asthma) Author Zhuzzhasarova A.	<ul style="list-style-type: none"> • Revised the options, made them equivalent • Corrected grammatical errors • Revised medicinal products according to the new treatment protocol • Inserted video
4	Case: Cough (Pneumonia) Author r Nurpeissova R.;	<ul style="list-style-type: none"> • Revised options, in this case only 3 options were provided, students noted that there were not enough of them, they suggested increasing the number of options. • The contents of the case further expanded the history of the disease and the patient's medical history. • Corrected grammatical errors
5	Case: General Weakness	<ul style="list-style-type: none"> • In content, the case seemed easy for students, they were asked to slightly complicate it, expand the history and clinical data.

	(Anemia) Author Shnaider K.	<ul style="list-style-type: none"> Difficulties in diagnosing and choosing the tactics of treatment, the whole case did not cause significant difficulties for the students of the 6th course, according to the number of options the students noted that it is necessary to add 1-2 additional options.
6	Case: Bleeding (abruption of placenta) Author Tyan V..	<ul style="list-style-type: none"> Revised the sequence of steps, increased options Corrected contents of the case; there were many surgical interventions. Inserted video Corrected grammatical errors Revised medicinal products according to the treatment protocol

2.1.2 Karaganda State Medical University (KSMU), Kazakhstan

2	Name of tutor	Department	Case	Changes and additions to cases	Comments
1	Dyusembaeva Aynash Yermukhanovna	Department of Child Infections	Abdominal pain (Yermek Kunayev)	5169 – Stylistics errors	-
				5174 – Stylistics errors – On the basis of the clinical and laboratory analysis, the slide already gives final diagnosis	To remove the diagnosis and to allow the students to make final diagnosis on their own (Remove Diagnosis in options or move them to a new slide)
				-students do not understand how the patient ended up in the hospital ER, therapeutic department.	- To add a slide, where the patient will be directed to hospitalization - if there are suspicions of heart attack, it may be better to send the patient to cardiology, and not the general therapeutic department.
			5729 – Stylistics errors – step 1. Burning pain is indicated	-in the previous slides Yermek did not have indications of burning pain among his complaints and	

					indications
				5716 – no choice options	To add choice options
				5718 - urgently hospitalized (with admission) ...	To edit text
2	Alshynbekova Gulsharbat Kanagatovna		Diarrhea (Yusupov Askar)	Stylistic errors	
3	Sersauletova Aizhan Sarsenbekovna	Department of General Practice №1		Stylistic errors	
4					
5	Dobler Kristina Ergartovna	Department of General Practice №2		Stylistic errors	
6	Amangeldiyeva Karakoz Kalijanovna				
7	Otyshiev Bakhtiyar Nurzhanovich	Department of General Practice №3 and Department of Nursing		Stylistic errors	

2.1 Ukraine

2.1.1 Zaporozhye State Medical University (ZSMU), Ukraine

Case "Savin" (Bilai A. I.)

No of node	Comments
3063	Too many abbreviations in the echocardiography
3072	Ultrasound of the abdominal cavity organs and urinoexcretory system lacks information concerning an appendicular appendix
3252	Little amount of scenarios and there is no description of a vermicular appendix

Eduard Ivanov (Bilai A. I.)

№ of node	Comments
3109	Spelling mistake - интерпретация
3109	Spelling mistake - полученных
3121	Accident and Emergency department – there is no conclusion and arrow
3160	In the node of fiberoptic esophagogastroduodenoscopy we propose to remove a stage of cicatrization as this information can contradict the main diagnosis
3161	To add a stage “sealing” before “excision”
3112	
3119	Neimark’s test affirmative to positive

Prokhor Shaliapin (Kapshytar O.O.)

№ of node	Comments
3183	Describe fully the blood test
3145	Describe fully the blood test
3152	to add fiberoptic esophagogastroduodenoscopy as a variant

Zoia Strybok (Kapshytar O.O.)

№ of node	Comments
3257	To list the specific tests and analysis in a variant – blood sampling
3386, 87,88	Spelling mistake – <u>методик</u>
3386, 87,88	Spelling mistake - итерпритации

Hurylev (Voloshyn O. M.)

№ of node	Comments
3082	To add thrombocytes

Sahan' V. F. (Voloshyn O. M.)

№ of node	Comments
3094	To add a space to «HelicobacterPylori», in a case history «сахарный диабет» is repeated, to correct spelling mistake «аппендектомия»
3095	Spelling mistake «несклько»
3096	To remove an arrow from the image
3174	Spelling mistake «симптомотическое», «Усаток», «стуки»

3244	Spelling mistake «срезентеральным»
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2.1.2 Bukovinian State Medical University (BSMU), Ukraine

Petrenko Oleksandr (case author – Viktoriia Khilchevska)

№ of node	Comments
	To add the place of body temperature checking
	Use international drug name – «drotaverin»

Kosovan Maria (case author – Galyna Bilyk)

№ of node	Comments
	Change the option “Make X-ray, CT-scan” on only “Make X-Ray of chest”
	Change the units of red blood cells in a common blood test
	change the photo with the patient's hands on the more successful (Raynaud's syndrome)

Sydorenko Ivan (case author – Uliana Marusyk)

№ of node	Comments
	Spelling mistake «фура семід»
	To correct results of glucose tolerance test
	To correct results of urea test in serum

Gayduk Olena (case author – Nataliia Bogutska)

№ of node	Comments
	To add photo of palms of health person for compare
	Spelling mistake «ліко ваний»

Gerasymiuk Andriy (case author – Mykola Garas)

№ of node	Comments
	To add axillar temperature results
	Spelling mistake for correct units use «мкккмоль/л»
	Spelling mistake «менінгіальні»

Polovchenko Oksana (case author – Sergii Sazhyn)

№ of node	Comments
	Use international drug name – «ibuprofen»
	Use international drug name – «salbutamol» and «prednisolon»

	Spelling mistake «а типовими»
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2.3 Vietnam

2.3.1 Hanoi Medical University (HMU), Vietnam

Tetanus (case author – Nguyen Van Duyet)

No of node	Comments
	Correct spelling mistake “pellicilin” => “penicillin”
	Add more description of using penicilin

HIV/AIDS (case author – Vu Quoc Dat)

No of node	Comments
	Change the 3 photos into accurate order (those were in the wrong order)

Typhoid fever (case author – Nguyen Thi Lien Ha)

No of node	Comments
	Correct the results of patient’s examination to be more specific
	Descibe more details about the patient after having Efferalgan

Dengue hemorrhagic fever (case author – Nguyen Manh Truong)

No of node	Comments
	Correct spelling the name of drugs “Dectran 40” => “Dextran 40”
	Add the result of CVP test

Viral hepatitis (case author – Nguyen Kim Thu)

No of node	Comments
	None

Streptococcus suis infectious (case author – Le Thi Hoa)

No of node	Comments
	Correct spelling the name: “Rocephil” => “Rocephin”; “Dexamethon” => “Dexamethazon”

2.3.2 Hue University of Medicine and Pharmacy (HUMP), Vietnam

Abdominal pain, jaundice (case author – Le Minh Tan)

No of node	Comments
6382	Change the word “support” to “symptom”
6383	Add the phrase “Ciprofloxacin 800 mg / day, Metronidazole 1.5g / day” Correct spelling: “Hgb” to “Hb”

Headache - subarachnoid hemorrhage (case author – Tran Thi Phuoc Yen)

No of node	Comments
6439	Spelling mistake: Patients with a history of “migrain” → “migraine” Correct spelling “Ibprofen” to “ibuprofen”
6440	Correct spelling: “vomiting”
6441	Correct spelling “Ibprofen” to “ibuprofen”

Acute appendicitis (case author – Phan Dinh Tuan Dung)

No of node	Comments
6446	Change the word “resident physician” to “surgeon” Add the word “female” before the word “patient” Correct spelling: “motion” to “peristaltic”
6448	Add the word “at the hospital” at the 2nd option

Gastrointestinal perforation (case author – Nguyen Doan Van Phu)

No of node	Comments
6466	Add the sentence “Your decision?” Add the word “Hb: 135g/l”

Postpartum hemorrhage (case author – Nguyen Hoang Long)

No of node	Comments
5819	Add the word “combined test” Add the word “6 th year student” at the 1 st option
5822	Add the phrase “Blood pressure 90/60 mmHg”

Pre-eclampsia (case author – Nguyen Hoang Long)

No of node	Comments
6074	Add the phrase “Routine pregnancy tests” at the 1 st option
6075	Add the phrase “Bleeding time 3 minutes (1 - 4)”

ANNEX 3: IMPLEMENTATION OF MODIFIED CASES INTO THE CURRICULA

3.1 Kazakhstan

3.1.1 Astana Medical University (AMU), Kazakhstan

Date	The name of the case	group	Time of tutorials	Name and Surname of the tutor
06.02.2018	Case 1 Serik Bayzhamanov Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M. O. Schneider K.V. Syzdykova A.S.
08.02.2018	Case 1 Serik Bayzhamanov Day 2	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M. O. Schneider K.V. Syzdykova A.S.
12.02.2018	Case 2 Alma Akhmetova Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Syzdykova A.S. Zhakupbekova MO Schneider K.V. Syzdykova A.S.
14.02.2018	Case 2 Alma Akhmetova Day 2	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Syzdykova A.S. Zhakupbekova MO Schneider K.V. Syzdykova A.S.
19.02.2018	Case 3 Akbota Amet Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Zhakupbekova MO Syzdykova A.S. Madiyeva Sh.A. Tuliyeva A.M.
21.02.2018	Case 3 Akbota Amet Day 2	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Жақұпбекұва М.О. Сыздықұва А.С. Мадиева Ш.А. Тұлиева А.М
05.03.2018	Case 4 Marchenko Dmitry Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M. O. Schneider K.V. Madiyeva Sh.A.
06.03.2018	Case 4 Marchenko Dmitry Day 2	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M.O Schneider K.V. Madiyeva Sh.A.
12.03.2018	Case 5 Askar Alimov Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Syzdykova A.S. Zhanaliyeva M.K. Syzdykova A.S. Tuliyeva A.M.
16.03.2018	Case 5 Askar Alimov	569 gr.	8.00 -11.00	Syzdykova A.S.

Timetable of lectures, lessons and independent work of students with tutors for students of 5-003, 5-004, 5-075, 5-076 groups of the 5th course of the specialty "General Medicine" under the Tame program "Training against medical errors" for the fall semester 2017 -2018 school year

	Day 2	570 gr. 571 gr. 572 gr.	8.00 -11.00 11.00-14.00 11.00-14.00	Zhanaliyeva M.K. Syzdykova A.S. Tuliyeva A.M.
26.03.2018	Case 6 Luiza Akhmetova Day 1	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M.O Schneider K.V. Nurpeissova R.G.
29.03.2018	Case 6 Luiza Akhmetova Day 2	569 gr. 570 gr. 571 gr. 572 gr.	8.00 -11.00 8.00 -11.00 11.00-14.00 11.00-14.00	Bekbergenova Zh. B. Zhakupbekova M.O Schneider K.V. Nurpeissova R.G.

3.1.2. Karaganda State Medical University (KSMU), Kazakhstan

Date	03.11.2017	06.11.2017	07.11.2017	08.11.2017	09.11.2017	10.11.2017	13.11.2017	
Week day	Friday	Monday	Tuesday	Wednesday	Thursday	Friday	Monday	
1	9.00-9.50	Lecture The concept of general medical practice. Principles of the organization of primary health care (PHC).						
1	3 9.55-10.45	Lecture Principles of interpersonal communication and counseling of patients by the general practitioner.	Practical lesson Acute coronary syndrome in the practice of GPs.	Practical lesson Hypertension in the practice of GPs.	Case 1 Chest pain Session 1	Practical lesson Arrhythmias syndrome in the practice of GPs.	Practical lesson Metabolic syndrome in the practice of GPs.	Case 1 Chest pain Session 2
1	10.50-11.40	Lecture Medical labor examination.						
	10.40-11.00							

	2	12.00-12.50	Lecture Medical labor examination.	Acute coronary syndrome in the practice of GPs.	Independent work Hypertension in the practice of GPs.	Independent work	Independent work Arrhythmias syndrome in the practice of GPs.	Independent work Metabolic syndrome in the practice of GPs.	Practical lesson Lack of blood circulation in the practice of GPs.
		12.55-13.45	Lecture Principles of dynamic observation in an outpatient setting.						
12.45-13.15									
	4	14.15-15.05	Lecture Principles of dynamic observation in an outpatient setting.	Independent work Acute coronary syndrome in the practice of GPs.	Independent work Hypertension in the practice of GPs.	Independent work	Independent work Arrhythmias syndrome in the practice of GPs.	Independent work Practical lesson Metabolic syndrome in the practice of GPs.	Practical lesson Lack of blood circulation in the practice of GPs.
		15.10-16.00							
		16.05-16.55							

		17,00-17,50						
All lessons were conducted in rooms 357,359,364,365								

3.2 Ukraine

3.2.1 Zaporozhye State Medical University (ZSMU), Ukraine

Timetable for new surgical cases at ZSMU

Group №	Monday	Tuesday	Wednesday	Thursday	Friday
week 1					
1 Associate Prof. A.A. Kuznietsov		05.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training M.Savin №1		07.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training M.Savin №2	
2 Assistant Prof. S.V. Potapenko		15 ³⁰ -17 ⁰⁰ Lecture <i>Acute abdominal syndrom</i>		15 ³⁰ -17 ⁰⁰ Lecture <i>Acute appendicitis</i>	
3 Assistant Prof. T.O. Levchuk		Assistant Prof. A. I. Bilai		Assistant Prof. A. I. Bilai	
4 Associate Prof. T.V. Ivanenko					
week 2					
1 Associate Prof. A.A. Kuznietsov		12.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training V Sahan №1		14.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training V Sahan №2	
2 Assistant Prof. S.V. Potapenko		15 ³⁰ -17 ⁰⁰ Lecture <i>Mesenteric thrombosis</i>		15 ³⁰ -17 ⁰⁰ Lecture <i>Mesenteric thrombosis</i>	
3 Assistant Prof. T.O. Levchuk		Assistant Prof. O. M. Voloshyn		Assistant Prof. O. M. Voloshyn	
4 Associate Prof. T.V. Ivanenko					
week 3					
1 Associate Prof. A.A.		19.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training		21.12.17 12 ⁰⁰ -15 ⁰⁰ Practical training	

Kuznietsov		F.Shaliapin №1		F.Shaliapin №2	
2		15 ³⁰ -17 ⁰⁰		15 ³⁰ -17 ⁰⁰	
Assistant Prof. S.V. Potapenko		Lecture <i>Acute bowel obstruction</i>		Лекция <i>Acute bowel obstruction</i>	
3		Assistant Prof. O.O Kapshytar		Assistant Prof. O.O Kapshytar	
4					
Associate Prof. T.V. Ivanenko					
week 4					
1		26.12.17 12 ⁰⁰ -15 ⁰⁰		28.12.17 12 ⁰⁰ -15 ⁰⁰	
Associate Prof. A.A. Kuznietsov		Practical training Ye.Ivanov №1		Practical training Ye.Ivanov №2	
2		15 ³⁰ -17 ⁰⁰		15 ³⁰ -17 ⁰⁰	
Assistant Prof. S.V. Potapenko		Lecture <i>Perforative alcer</i>		Lecture <i>Perforative alcer</i>	
3		Assistant Prof. A. I. Bilai		Assistant Prof. A. I. Bilai	
4					
Associate Prof. T.V. Ivanenko					
week 5					
1		09.01.18 12 ⁰⁰ -15 ⁰⁰		11.01.18 12 ⁰⁰ -15 ⁰⁰	
Associate Prof. A.A. Kuznietsov		Practical training M. Huryliov №1		Practical training M. Huryliov №2	
2		15 ³⁰ -17 ⁰⁰		15 ³⁰ -17 ⁰⁰	
Assistant Prof. S.V. Potapenko		Lecture <i>Pulmonary embolism</i>		Lecture <i>Pulmonary embolism</i>	
3		Assistant Prof. O. M. Voloshyn		Assistant Prof. O. M. Voloshyn	
4					
Associate Prof. T.V. Ivanenko					
week 6					
1		16.01.18 12 ⁰⁰ -15 ⁰⁰		18.01.18 12 ⁰⁰ -15 ⁰⁰	
Associate Prof. A.A. Kuznietsov		Practical training Z.Strybok №1		Practical training Z.Strybok №2	
2		15 ³⁰ -17 ⁰⁰		15 ³⁰ -17 ⁰⁰	
Assistant Prof. S.V. Potapenko		Lecture <i>Bacterial complications after surgical</i>		Lecture <i>Bacterial complications after surgical</i>	

3 Assistant Prof. T.O. Levchuk		<i>treatment</i> Assistant Prof. O.O Kapshytar		<i>treatment</i> Assistant Prof. O.O Kapshytar	
4 Associate Prof. T.V. Ivanenko					

3.2.2 Bukovinian State Medical University (BSMU), Ukraine

Week 1	
15/11/17 9-12 a.m. (branch)	Bronchial asthma Polovchenko Oksana (case author – Sergii Sazhyn)
12-3 p.m. (linear)	Bronchial asthma Polovchenko Oksana (case author – Sergii Sazhyn)
16/11/17 9-12 a.m. (branch)	Bronchial asthma Polovchenko Oksana (case author – Sergii Sazhyn)
12-3 p.m. (linear)	Bronchial asthma Polovchenko Oksana (case author – Sergii Sazhyn)
Week 2	
20/11/17 9-12 a.m. (branch)	Infarction of myocardium Petrenko Oleksandr (case author – Viktoriia Khilchevska)
20/11/17 12-3 p.m. (linear)	Infarction of myocardium Petrenko Oleksandr (case author – Viktoriia Khilchevska)
22/11/17 9-12 a.m. (branch)	Infarction of myocardium Petrenko Oleksandr (case author – Viktoriia Khilchevska)
22/11/17 12-3 p.m. (linear)	Infarction of myocardium Petrenko Oleksandr (case author – Viktoriia Khilchevska)
Week 3	
27/11/17 9-12 a.m. (branch)	Anemia Gayduk Olena (case author – Nataliia Bogutska)
27/11/17 12-3 p.m. (linear)	Anemia Gayduk Olena (case author – Nataliia Bogutska)
29/11/17 9-12 a.m. (branch)	Anemia Gayduk Olena (case author – Nataliia Bogutska)
29/11/17 12-3 p.m. (linear)	Anemia Gayduk Olena (case author – Nataliia Bogutska)
Week 4	
04/12/17 9-12 a.m. (branch)	Diabetes mellitus Sydorenko Ivan (case author – Uliana Marusyk)
04/12/17 12-3 p.m. (linear)	Diabetes mellitus Sydorenko Ivan (case author – Uliana Marusyk)
06/12/17 9-12 a.m. (branch)	Diabetes mellitus Sydorenko Ivan (case author – Uliana Marusyk)
06/12/17 12-3 p.m. (linear)	Diabetes mellitus Sydorenko Ivan (case author – Uliana Marusyk)

Week 5	
11/12/17 9-12 a.m. (branch)	Acute enteric infection Gerasymiuk Andriy (case author – Mykola Garas)
11/12/17 12-3 p.m. (linear)	Acute enteric infection Gerasymiuk Andriy (case author – Mykola Garas)
13/12/17 9-12 a.m. (branch)	Acute enteric infection Gerasymiuk Andriy (case author – Mykola Garas)
13/12/17 12-3 p.m. (linear)	Acute enteric infection Gerasymiuk Andriy (case author – Mykola Garas)
Week 6	
18/12/17 9-12 a.m. (branch)	Systemic lupus erythematosus Kosovan Maria (case author – Galyna Bilyk)
18/12/17 12-3 p.m. (linear)	Systemic lupus erythematosus Kosovan Maria (case author – Galyna Bilyk)
20/12/17 9-12 a.m. (branch)	Systemic lupus erythematosus Kosovan Maria (case author – Galyna Bilyk)
20/12/17 12-3 p.m. (linear)	Systemic lupus erythematosus Kosovan Maria (case author – Galyna Bilyk)

3.3 Vietnam

3.3.1 Hanoi Medical University (HMU), Vietnam

Timetable for implementing the modified cases at HMU

Date	The name of the case	Group	Time of tutorials	Name and Surname of the tutor
12.03.18	HIV/AIDS (Day 1)	Group 1	7:30 – 10:30	Vu Quoc Dat
		Group 2	7:30 – 10:30	Le Thi Hoa
		Group 3	7:30 – 10:30	Nguyen Kim Thu
		Group 4	7:30 – 10:30	Nguyen Quoc
		Group 5	7:30 – 10:30	Phuong Nguyen Manh Truong
14.03.18	HIV/AIDS (Day 2)	Group 1	7:30 – 10:30	Vu Quoc Dat
		Group 2	7:30 – 10:30	Le Thi Hoa
		Group 3	7:30 – 10:30	Nguyen Kim Thu
		Group 4	7:30 – 10:30	Nguyen Quoc
		Group 5	7:30 – 10:30	Phuong Nguyen Manh Truong
14.03.18	Viral Hepatitis (Day 1)	Group 1	14:30 – 17:30	Vu Quoc Dat
		Group 2	14:30 – 17:30	Le Thi Hoa
		Group 3	14:30 – 17:30	Nguyen Kim Thu
		Group 4	14:30 – 17:30	Nguyen Van Duyet
		Group 5	14:30 – 17:30	Nguyen Manh Truong
16.03.18	Viral Hepatitis (Day 2)	Group 1	7:30 – 10:30	Vu Quoc Dat
		Group 2	7:30 – 10:30	Le Thi Hoa

		Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Nguyen Kim Thu Nguyen Van Duyet Nguyen Manh Truong
19.03.18	Tetanus (Day 1)	Group 1 Group 2 Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Quoc Phuong Nguyen Manh Truong
21.03.18	Tetanus (Day 2)	Group 1 Group 2 Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Quoc Phuong Nguyen Manh Truong
21.03.18	Streptococcus suis infection (Day 1)	Group 1 Group 2 Group 3 Group 4 Group 5	14:30 – 17:30 14:30 – 17:30 14:30 – 17:30 14:30 – 17:30 14:30 – 17:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Van Duyet Nguyen Manh Truong
23.03.18	Streptococcus suis infection (Day 2)	Group 1 Group 2 Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Van Duyet Nguyen Manh Truong
26.03.18	Dengue hemorrhagic Fever (Day 1)	Group 1 Group 2 Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Quoc Phuong Nguyen Manh Truong
28.03.18	Dengue hemorrhagic Fever (Day 2)	Group 1 Group 2 Group 3 Group 4 Group 5	7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Le Thi Hoa Nguyen Kim Thu Nguyen Quoc Phuong Nguyen Manh Truong
28.03.18	Typhoid fever (Day 1)	Group 1 Group 2	14:30 – 17:30 14:30 – 17:30	Vu Quoc Dat Nguyen Van Duyet
30.03.18	Typhoid fever (Day 2)	Group 1 Group 2	7:30 – 10:30 7:30 – 10:30	Vu Quoc Dat Nguyen Van Duyet

3.3.2. Hue University of Medicine and Pharmacy (HUMP), Vietnam

Timetable for implementing the modified cases at HUMP

No.	Clinical VP cases	Session	Time		Lecture hall	Group	Lecturers	Monitors
			Hours	Date				
1	Headache - subarachnoid hemorrhage	1	14:00-17:00	7 th May 2018	1.07B	1A	Dr. Yen	Dr. Chi
2	Gastrointestinal perforation	1	14:00 - 17:00	7 th May 2018	1.08	2A	Dr. Phu	Prof. Anh
3	Postpartum hemorrhage	1	14:00 - 17:00	7 th May 2018	1.09	3A	Dr. Giang	Dr. Hung
4	Abdominal pain, jaundice	1	14:00 - 17:00	9 th May 2018	1.07B	1A	Dr. Tan	Dr. Chi
5	Acute appendicitis	1	14:00 - 17:00	9 th May 2018	1.08	2A	Dr. Dung	Prof. Anh
6	Gastrointestinal perforation	2	14:00 - 17:00	9 th May 2018	1.09	2A	Dr. Phu	Dr. Hung
7	Headache - subarachnoid hemorrhage	2	7:00 -9:00	12 th May 2018	1.07B	1A	Dr. Yen	Dr. Chi
8	Abdominal pain, jaundice	2	8:00 - 11:00	12 th May 2018	1.08	1A	Dr. Tan	Prof. Anh
9	Postpartum hemorrhage	2	15:00 - 17:00	12 th May 2018	1.07B	3A	Dr. Giang	Dr. Chi
10	Pre-eclampsia	1	14:00 - 17:00	14 th May 2018	1.07B	3A	Dr. Long	Dr. Chi
11	Pre-eclampsia	2	14:00 - 17:00	16 th May 2018	1.07B	3A	Dr. Long	Dr. Hung
12	Acute appendicitis	1	14:00 - 17:00	16 th May 2018	1.08	2A	Dr. Dung	Prof. Anh
13	Abdominal pain, jaundice	1	7:00 -9:00	19 th May 2018	1.07B	1B	Dr. Tan	Dr. Chi
14	Postpartum hemorrhage	1	8:00 - 11:00	19 th May 2018	1.08	3B	Dr. Giang	Dr. Chi
15	Gastrointestinal perforation	1	15:00 - 17:00	19 th May 2018	1.09	2B	Dr. Phu	Prof. Anh
16	Headache - subarachnoid hemorrhage	1	14:00-17:00	21 st May 2018	1.07B	1B	Dr. Yen	Dr. Hung
17	Acute	1	14:00 -	21 st	1.08	2B	Dr. Dung	Dr. Hung

	appendicitis		17:00	May 2018				
18	Pre-eclampsia	1	14:00 - 17:00	21 st May 2018	1.09	3B	Dr. Long	Dr. Hung
19	Abdominal pain, jaundice	2	14:00-17:00	23 rd May 2018	1.07B	1B	Dr. Tan	Prof. Anh
20	Gastrointestinal perforation	2	14:00 - 17:00	23 rd May 2018	1.09	2B	Dr. Phu	Prof. Anh
21	Postpartum hemorrhage	2	14:00 - 17:00	23 rd May 2018	1.08	3B	Dr. Giang	Prof. Anh
22	Pre-eclampsia	2	7:00 -9:00	26 th May 2018	1.07B	3B	Dr. Long	Prof. Anh
23	Acute appendicitis	2	8:00 - 11:00	26 th May 2018	1.07B	2B	Dr. Dung	Dr. Chi
24	Headache - subarachnoid hemorrhage	2	15:00 - 17:00	26 th May 2018	1.07B	1B	Dr. Yen	Dr. Chi
25	Gastrointestinal perforation	1	14:00-17:00	28 th May 2018	1.07B	2C	Dr. Phu	Dr. Hung
26	Abdominal pain, jaundice	1	14:00-17:00	28 th May 2018	1.08	1C	Dr. Tan	Dr. Hung
27	Postpartum hemorrhage	1	14:00-17:00	28 th May 2018	1.09	3C	Dr. Giang	Prof. Anh
28	Headache - subarachnoid hemorrhage	1	14:00-17:00	30 th May 2018	1.07B	1C	Dr. Yen	Dr. Chi
29	Pre-eclampsia	1	14:00-17:00	30 th May 2018	1.08	3C	Dr. Long	Dr. Hung
30	Acute appendicitis	1	14:00-17:00	30 th May 2018	1.09	2C	Dr. Dung	Prof. Anh
31	Abdominal pain, jaundice	2	14:00-17:00	4 th June 2018	1.07B	1C	Dr. Tan	Dr. Chi
32	Gastrointestinal perforation	2	14:00-17:00	4 th June 2018	1.08	2C	Dr. Phu	Prof. Anh
33	Postpartum hemorrhage	2	14:00-17:00	4 th June 2018	1.09	3C	Dr. Giang	Dr. Hung
34	Headache - subarachnoid hemorrhage	2	14:00-17:00	16 th June 2018	1.07B	1C	Dr. Yen	Dr. Chi

35	Acute appendicitis	2	14:00- 17:00	16 th June 2018	1.08	2C	Dr. Dung	Prof. Anh
36	Pre-eclampsia	2	14:00- 17:00	16 th June 2018	1.09	3C	Dr. Long	Dr. Hung