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ADC Letter
for Infectious Disease Control

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TEIKYO

SAKURA Science Plan 2021

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EDITORIAL

第 9 巻 2 号をお届けいたします。

現在もCOVID-19が相変わらず猛威を振るい、2022年 7 月現在、日本国におけるオミクロン株は、BA.5系統が主流になりつつあります。世界は規制解除の方向で動いていますが、懸念事項としては、日本国内の報告上の死亡率（COVID-19死亡者／新規感染者数：1 日当たり）がまだ0.2%以上を示しており、この半年以上ほぼ一定であることです。1,000人に 1 人以上が死亡する（可能性のある）疾患は、医師として扱う病気の中では死亡する可能性の高い重症疾患と捉えられます。例えば一般に許容されている季節性インフルエンザは10,000人に 1 人以下ですので、まだまだ一桁以上届かない感じがいたします。

このコロナウイルスの影響で国際連携事業は約 2 年ほど遅れましたが、医学の分野ではface-to-faceでなければ得られない情報が重要であることはご存知の通りで、今後は以前に増して国際化社会に対応した教育・研究を進めてまいります。ADCは今後もアジア諸国を中心に国際連携を展開してまいります。皆様の変わらないご支援をよろしくお願いいたします。

【研究プロジェクト、感染制御研究】

今回、COVID-19の感染が拡大していることを踏まえて、帝京大学医学部附属病院との連携を強化いたしました。引き続き臨床に直結する研究を続けてまいりたいと思います。

1）RNAウイルス感染におけるラクトペルオキシダーゼの作用
2）マクロライド系薬による抗ウイルス活性機序の解析
3）血管炎症候群に対する治療標的分子の同定と解析
4）脳性麻痺モデル動物への遠隔期細胞治療（脳性麻痺に対するStem Cell治療法開発関連）
5）An analysis of mechanisms of cytokine storm initiation caused by influenza viruses
　Ngo Thi Huong（大学院D3）
6）附属病院との連携　SARS-CoV-2の変異型検出、解析／インフルエンザウイルスの型、系統解析

【アジア諸国医療機関との研究交流】

1）ハノイ国立小児病院と研究交流についてMOUを締結いたしました。
2）「JST；さくらサイエンスプラン」では、昨年予定して延期となった 5 期生（ベトナムより 9 名）に対して 3 月に講習などを行う予定で、「JST；さくらサイエンスプラン」に応募いたしました。採用されましたら、また皆様のお手伝いをお願いに参ります。
3）結核研究所のご厚意でJICAフィリピンプロジェクトに今年度から参加いたします。詳細はまたご報告いたします。

We are pleased to issue ADC Letter Volume 9 No. 2.

COVID-19 is still raging, and as of July 2022, the BA.5 strain is becoming the mainstream of Omicron strains in Japan. The restriction of movement has been lifted throughout the world, but the reported mortality rate (COVID-19 deaths/new infections: per day) in Japan is still over 0.2%. It has been almost constant for more than half a year. A disease that kills (potentially) more than 1 in 1,000 people is regarded as a serious disease with a high probability of death among the diseases treated by doctors. For example, seasonal influenza, which is generally accepted, is less than 1 in 10,000 people, so this is still much higher mortality rate than influenza.

Due to the influence of this coronavirus, the international collaboration project has been delayed for about two years, but as you may know, in the field of medicine, information that can only be obtained face-to-face is important, therefore, in the future we will continue to promote education and research in response to an increasingly globalized society. ADC will continue to develop international cooperation, mainly in Asian countries.

【Research Project, Infection Control Research】

In the midst of the spread of COVID-19 infection, we have strengthened our cooperation with Teikyo University Hospital. We have conducted or are doing research regarding the followings:

1）Effect of lactoperoxidase on RNA virus infection
2）Analysis of the mechanism of antiviral activity by macrolides
3）Identification and analysis of therapeutic target molecules for vasculitis syndrome
4）Long-term cell therapy for cerebral palsy model animals (related to development of stem cell therapy for cerebral palsy)
5）An analysis of mechanisms of cytokine storm initiation caused by influenza viruses
　Ngo Thi Huong (Graduate School D3)
6）Cooperation with affiliated hospital　SARS-CoV-2 variant detection and analysis
　Influenza virus type and phylogenetic analysis

【Research Exchange with Medical Institutions in Asian Countries】

1）We have concluded MOU for research exchange with Hanoi National Children's Hospital.
2）In "JST; Sakura Science Plan", we plan to hold lectures in March for the fifth-year member (9 students from Vietnam), which were postponed, and have applied for "JST; Sakura Science Plan". If I am hired, I will ask for your help again.
3）We will participate in the JICA Philippines project from this year due to COVID-19, thanks to the Tuberculosis Institute. We will report the details later.

編集長：河内正治 Editor-in-Chief : Shoji Kawachi, Director　**事務局：伊藤吹夕** Editorial Office : Fuyu Ito, Ph.D.

表紙写真：「さくらサイエンスプラン」ベトナムからのオンライン参加者と一緒に集合写真

日本・アジア青少年サイエンス交流事業「さくらサイエンスプラン」
Japan-Asia Youth Exchange Program in Science by JST
ベトナムから帝京大学へ

March 7th - 9th, 2022

帝京大学アジア国際感染症制御研究所（ADC研）では、2022年３月７日から９日に「さくらサイエンスプラン2020」をオンラインで実施しました。今回の「さくらサイエンスプラン」は、2020年度に採択されていましたが、コロナ禍の影響により、開催延期が続いておりました。今年度も研修生が来日されての科学技術研修コースの開催をギリギリまで調整しておりましたが、残念ながら感染拡大が続き、来日の目処がたちませんでした。そこで、2022年３月７日から９日の３日間にオンラインで開催しました。

ベトナムで活躍する医師、研究者である参加者に、「感染症」、「安全管理」、「バイオセキュリティ」について、日本の病院での現状や感染症に関する研究テーマについて、講義中心のプログラムを行いました。医学部附属病院の小児科には、病棟の様子やNICUなどの撮影をお願いしたり、病院安全管理部では、普段実施している医療安全や感染制御に関する動画など、みなさま創意工夫してくださり、短時間ではありましたが、本学の教員との交流を深められたと思っております。

今回参加いただいた研修生の皆さんが、いつか来日され、実際に帝京大学を案内できることを楽しみにしています。

From March 7th to 9th, 2022, the “Sakura Science Plan 2020” was held online at the ADC Lab, Teikyo University. The “Sakura Science Plan” was adopted in 2020, but due to the coronavirus pandemic, the event has been postponed. This year, we were making arrangements until the last minute to hold a science and technology training course for the trainees to come to Japan, but unfortunately, the pandemic continued, and there was no prospect of coming to Japan. Therefore, it was held online for three days.

It was a lecture-centered program with the theme of conveying the current situation in Japanese hospitals about “infectious diseases”, “safety management”, and “biosecurity” to doctors and researchers active in Vietnam.

We are looking forward to having online participants in person next year and showing them around in Teikyo University.

TASP Training Supported by SAKURA Science Plan of JST

研修参加者　Participants

ベトナム　13名（ハノイ国立小児病院６名、ホーチミン第一小児病院５名、ハノイ医科大学１名、ベトナム国家大学ハノイ校１名）

Hanoi Vietnam National Children’s Hospital

Do Thi Thuy Nga
Bui Thi Tho
Nguyen Tan Hung
Nguyen Lam Hong
Dang Mai Lien
Nguyen Viet Anh

Ho Chi Minh Children’s Hospital No.1

Le Thi Thu Trang
Le Minh Lan Phuong
Tran Bich Thuy
Nguyen Ngoc Tuyen
Nguyen Thi Ngoc

Hanoi Medical University

Mai Thi Hue

Hanoi Vietnam National University

Pham Thi Hong Nhung

SAKURA Science Program (alternative online) March 2022

Time: 7th-9th March, 2022

Time	Monday 7th	Tuesday 8th	Wednesday 9th
Morning **VN time: 9:00-11:30** **JP time: 11:00-13:30**	**9:00-11:30 (JP 11:00-13:30)** **Opening ceremony** Introduction of Teikyo University (movie)	**9:00-10:30 (JP 11:00-12:30)** Lecture : Viral infection and macrophage differentiation	**9:00-10:30 (JP 11:00-12:30)** Lecture : Pediatrics (movie)
		10:30-11:30 (JP 12:30-13:30) Lecture : Detection method of Covid-19 Lecture : Ethological study	**10:30-11:30 (JP 12:30-13:30)** Lecture : Cancer and hepatitis viruses
Lunch	**VN 11:30-13:30 ≈ JP 13:30-15:30**	**VN 11:30-13:30 ≈ JP 13:30-15:30**	**VN 11:30-13:30 ≈ JP 13:30-15:30**
Afternoon **VN time: 13:30-16:00** **JP time: 15:30-18:00**	**13:30-16:00 (JP 15:30-18:00)** Lecture : Infectious Disease	**13:30-14:30 (JP 15:30-16:30)** Lecture : Development of new drugs for infectious diseases using silkworm	**13:30-14:30 (JP 15:30-16:30)** Lecture: Biosafety
		14:30-16:00 (JP 16:30-18:00) Lecture : Infection experiments of influenza viruses	**14:30-16:00 (JP 16:30-18:00)** **Closing Ceremony**

1日目

1. ADC研メンバー、参加者の自己紹介

Introduction of ADC Staff

河内所長、ADC研スタッフ、Ms. NGO THI HUONG（大学院生）

帝京大学側の参加者

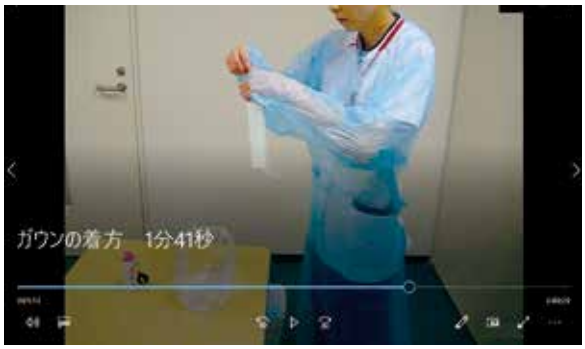
ベトナム側の参加者

2. Introduction of Teikyo University (movie)

帝京大学の紹介ムービーを放映しました。

休憩時間には、BGMとして河内所長も参加しておられる帝京大学板橋交響楽団が演奏する帝京大学校歌を流しました。

3. Lecture: Infectious Disease　松永直久准教授（医学部附属病院　感染制御部）

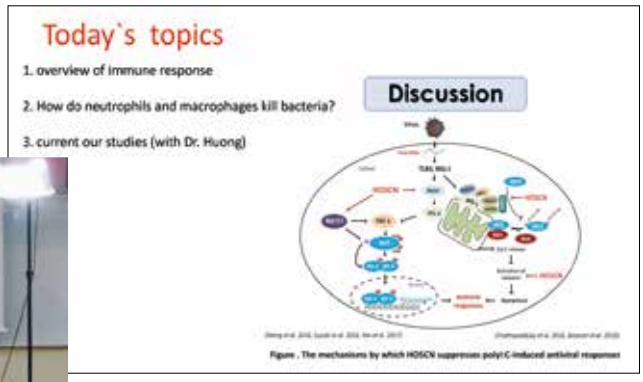


サクラサイエンスプラン第１回目からご協力いただいている、医学部附属病院感染制御部の松永先生に、今回もオンラインでの講義をお願いいたしました。コロナ対応でお忙しい中、個人用防護具PPEの着脱法やハンドクリーンジェルの使い方などわかりやすい動画を作成いただき、今回も大変興味深い講義をしていただきました。

2日目

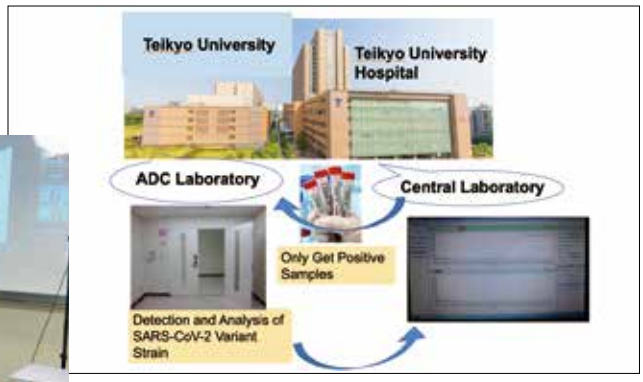
4. Lecture: Viral infection and macrophage differentiation　鈴木章一准教授（ADC研）

大学院生のHuongさんも現在の研究テーマについて講義をしました。とてもわかりやすい実験動画も作成してくれました。



5. Lecture: Detection method of Covid-19　伊藤吹夕研究助手（ADC研）

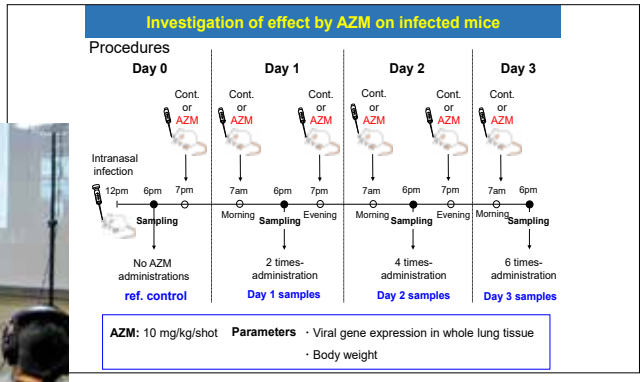
Covid-19に関連した附属病院との連携について話しました。



6. Lecture: Ethological study
吉岡昇講師（医学部生理学講座）

7. Lecture: Development of new drugs for infectious diseases using silkworm
浜本洋准教授（医真菌研究センター）

8. Lecture: Infection experiments of influenza viruses　菅又龍一講師（ADC研）



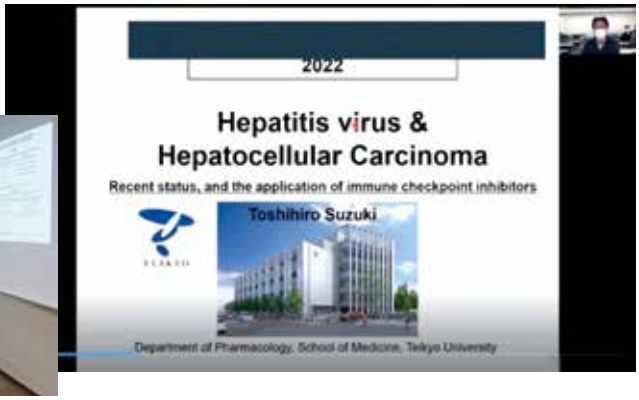
3日目

9. Lecture: Pediatrics (movie)　髙橋和浩講師（医学部小児科学講座）
NICU (movie)　伊藤直樹講師（医学部小児科学講座）

髙橋先生に附属病院小児病棟の案内をしていただきました。

伊藤先生にNICUの案内動画を作成いただきました。

10. Lecture: Cancer and hepatitis viruses　鈴木利宙助教（医学部生化学講座）



11. 講習会：バイオセーフティ（感染研　棚林清先生）

Trainings and Lectures: Biosafety and Safety Control in Hospital

12. 研修修了証授与

Certificate Awaring Ceremony

あっという間に終わった3日間でした。参加された研修生に修了証を河内先生からお渡しし、記念写真をとって終了となりました。

クリスマスから2月まで附属病院50周年記念事業として、板橋キャンパス中庭でイルミネーションが行われており、そのムービーを最後に投影させていただきました。

次回は、日本で研修生の皆さんとお会いできることを楽しみにしています。

謝辞 Acknowledgements

冲永佳史学長、冲永寛子常務理事、ADC教授会メンバー、医学部のご協力いただいた教員のみなさま、病院スタッフ（坂本哲也院長、安全管理部、感染制御部）

Reports of Participants

SAKURA Science Plan

Name: NGUYEN NGOC TUYEN, B.S.N.
Country: Vietnam
Department: Children's Hospital No.1, Ho Chi Minh City
Position: Nurse

My name is NGUYEN NGOC TUYEN, I am a nurse who has worked at the Department of General Internal Medicine 1 Children's Hospital No. 1 (CH1) for 17 years. I used to be a versatile nursing in the Nursing Department and worked in many departments of the hospital, such as NICU, ICU, BURN Department and witnessed the death of many children in the hospital. Therefore, I really want to learn a lot to bring my efforts to help and bring joy to the children.

Being one of the members to participate in the SAKURA science online program is one of my honors.

First of all, I would like to thank the teachers who let me participate in the program. Although with 3 days but the program really provided the general knowledge. One of the lectures I found interesting was the lecture on Development of new drugs to treat infectious diseases by eating silkworms. In Vietnam, silkworms are often raised and used silk to create silk fabric which is very famous in Ha Dong in the North of Vietnam. Therefore, hopefully in the near future, we will find more uses of silkworms like you.

In addition, the lectures on Cancer and Hepatitis Virus, Influenza Virus Infection Experiment are also very helpful. Your experiments are very good, we do not have a cancer treatment department at our hospital, but treating infectious diseases for children is one of the our leading field in the industry, with a treatment regimen for hand, foot, and mouth disease, compiled and saved millions of children from death. The hospital has witnessed many epidemics such as West Africa Ebola virus epidemic 2014, influenza A/H5N1 in Vietnam in 2003 or SARS in 2003. And now the SARS COV 2 epidemic. A lot of investigations are conducted in a systematic way, carefully and thoroughly since the first case was discovered. All cases involving the patient are examined, including their families, contacts, and medical staff.

I hope that after this program, there will be closer relationship between Children's Hospital No. 1 and Teikyo School to be able to bring your modern technology to our country and bring life and smiles for children not only in Vietnam but also in many other developing countries.

Once again, I would like to thank the teachers of Teikyo School and hope to visit the school in person in the near future.

Name: TRAN BICH THUY, M.D.
Country: Vietnam
Department: Burn care and Reconstructive surgery, Children's Hospital No. 1, Ho Chi Minh City
Position: Pediatrician

My job:
I have been a doctor in the burn care and reconstructive surgery department of the Children's Hospital No. 1 Ho Chi Minh City since 2007. My daily job is to examine patients with burn pathology such as burn, scar, hemangioma. I also participated in some scientific researches of my department and many social activities.

Summary of My Training Course:
The SAKURA Science Program gave me the opportunity to see beautiful Japan. I am very honored to be able to participate in this training program which is organized by Asia International Institute of Infectious Disease Control (ADC), Teikyo University. Training contents are very knowledgeable and useful. What impressed me the most was your sense of environmental protection and personality of Japanese people. After having this training, my dream is to invent antibiotics from insects in the future inventing antibiotics from insects in the future. The support staff of the training program was so helpful and full of hospitality. I can apply a lot of things for learning from the training program my daily work in Children' Hospital 1 Ho Chi Minh City. Thank you for providing us with excellent training program.

Potential Collaboration:
I hope that the program will continue to have more people from our hospital and give a chance to visit Japan, to be able to approach the modern and professional medical systems.

Name: NGUYEN THI NGOC, M.D.
Country: Vietnam
Department: Respiratory Department of Children's Hospital No. 1, Ho Chi Minh City
Position: Pediatrician

A spring day 2022 in Dalat Vietnam with Japanese peach blossoms.

I've worked as a pediatrician at Respiratory department of Children's Hospital No. 1 since 2010 after finishing resident program in the school of Medicine and Pharmacy of HCMC. I also specified in pediatric allergology. My responsibilities are treatment for respiratory patient in department, performing bronchoscopy and training young doctor of hospital. I also participated in some scientific researches about asthma and utility of bronchoscopy in children, food allergy of children.
I felt very proud and happy when I was chosen to join the SAKURA Science Program. During 3 days of online program course, I had chance to learn with Professors from Teikyo University and Hospital. I was very impressed with the professionalism and modernity of medical system in the Pediatric Department. I have learned new knowledge and developments in infectious diseases, cancer as well as method for Covid-19 detection and biosafety. Although the course took place online, the lectures of the Professors were very valuable and attractive, giving me a lot of practical and insightful knowledges about Japanese health care system, infection control and biosafety that we can find new things to improve our work in our hospital.
I look forward to one day visiting Japan, Teikyo University and Hospital some day in future. And I really hope for more research exchange and training between our hospital and Teikyo University especially through SAKURA Science Program.
I would like to say thanks so much to Prof Suzuki, Prof Kawachi and others in ADC who helped us during this online training course.

Name: Le Thi Thu Trang, B.S.N.
Country: Vietnam
Department: Infection Control, Children's Hospital No.1, Ho Chi Minh City
Position: Nurse

My name is Le Thi Thu Trang, called Thu Trang, I am a nurse who has worked at the Respiratory Diseases of Department of Children's Hospital No. 1 (CH1) for over 10 years. First of all, I would like to express my deep gratitude to all the teachers for allowing me to participate in the program. Although with 3 days but you really provided the comprehensive knowledge. In the lectures Cancer and hepatitis viruses, Infection experiments of influenza viruses are very helpful. Acinetobacter, CH1 only had sporadic cases during the year. In 2019 CH1 had an outbreak of Adeno appeared in an entire block of 7 departments due to ventilation problems, the Department of General Planning in conjunction with the Department of Infection Control worked hard to analyze the causes. The main cause was the ventilation problem, and everything was resolved in the end.
In the lecture about Development of new drugs for infectious diseases using silkworm is very interesting and new to me. In Vietnam, silkworm is not widely applied. Ethological study and Biosafety is very interesting, in CH1, there is no research room, only laboratory departments, laboratories are available at medical universities such as Ho Chi Minh City University of Medicine and Pharmacy which so famous.
About Children's Hospital, I watched a very interesting video, and I really want to visit there in person to ask more questions for the staff here. CH1 has about 1,600 beds with nearly 2,000 staffs, has 2 neonatal departments, 1 NICU, 1 ICU, 1 Covid department, 4 surgical departments, the rest are internal departments.
From childhood, I have been very interested in the country and the people of Japan, I hope that after this program, there will be an increasingly close relationship between Children's Hospital No. 1 and Teikyo School. Once again, I would like to give thank to the teachers of Teikyo School.

Name: Nguyen Tan Hung, M.D.
Country: Vietnam
Department: International Medical Center, Vietnam National Children's Hospital
Position: Doctor

Introduction
My name is Nguyen Tan Hung. I am 37 years old. I graduated from Hanoi Medical University in 2008. In 2015, I graduated with a master's degree in Pediatrics. I have been working at Vietnam National Children's Hospital after graduating from my university. I have been working as a pediatrician at Emergency Department for 12 years. I have attended many courses by experts from many difirent countries. However, this is my first time attending a course taught by Japanese experts. Although the course is not too long, it gives us a lot of useful knowledge.

Discussion
In 3 days we learned a lot of knowledge about different infectious diseases including:
- Viral infection: COVID-19, hepatitis…
- Development of new drugs for infectious diseases
- Biosafety

In the program, we also see modern infrastructure as well as professional working style. It was an interesting course so I hope to apply what I have learned from the course to my daily work.

Conclusion
I would like to say thank so much to Teikyo University, the faculty and members of the SAKURA online program. I hope to attend more courses from Japanese experts, espicially offline course (if the epidemic situation stabilizes).

Recommendations
I really hope in the future we have more exchange programs and more new collaborations to develop research and training, especially pediatrics and infectious diseases in the future.

Name: Bui Thi Tho, M.D.
Country: Vietnam
Department: Pediatric Intensive Care Unit, Vietnam National Children's Hospital
Position: Doctor

My job
I have been working as a pediatrician in PICU for 12 years. My main job is to diagnose and treat seriously ill children. Another job of mine is teaching and imparting experience to junior doctors. In order to do the above, I also spend a lot of time reading books and updating new medical knowledge in the world.

Summary of SAKURA Science program
In 3 days participating in SAKURA Science program I feel I have received a lot of benefits. I was first introduced to Teikyo University Hospital by Professor Suzuki and the doctors. I was quite impressed with the logical layout of the neonatology department. There's even a room for mothers to milk their babies, which my hospital has yet to have. In addition, I saw the ADC laboratory. It was great. I wish I could see it with my own eyes. Next I had a lecture on infectious diseases. I learned about the immune system again. I was especially impressed with the program's lectures about virus because I know you guys have very powerful labs. I like the lecture on Infection experiments of influenza viruses and Detection method of COVID-19 because they help a lot in my work. I also watched a video about Pediatrics. Unfortunately, the duration of the program was short, but we had a good time. I think if I have the opportunity to go to Teikyo University to take a course and get to know Japan, it will probably leave an unforgettable impression in each of our lives.

Future collaboration
I think I can take care of and guide Teikyo's students when they come to my department. If possible, I would like to become a member of the research cooperation between my hospital and Japan.

Name: Dang Mai Lien, M.D.
Country: Vietnam
Department: The Center of Pulmonology and Respiratory Care, Vietnam National Children's Hospital
Position: Doctor

Introduction
My name is Dang Mai Lien. I am 36 years old. I graduated from Hanoi medical university in 2010, graduated with a master's degree in Pediatrics in 2021.
I have been working at Respiratory Center since 2011 until now. I have also participated in teaching for the residents in the provincial hospitals in Vietnam since 6 years ago. I have had the opportunity to work and attend in a number of courses by experts from others countries such as the Hoc Mai (Forever Learning) Scholarship of Sydney Medical University and Hanoi medical University.
However, this is the first time I have participated in a short course taught by Japanese experts. The course is very interesting and professionally organized.

Discussion
We have learned a fairly rich and diverse knowledge in the field of infectious diseases during three days, including:

- Viral infection: COVID-19, hepatitis…
- Development of new drugs for infectious diseases using silkworm
- Biosafety

I really enjoy watching the videos of your doing the experiments. I am very interested in watching the way you collected trachea and the sample of the mice's lungs. It was my first time to see that procedure. Moreover, I have known the first time that the hepatitis E may come from some of your seafood.

It would be nice if we could learn from you in person in the future. I have gained a lot of new knowledge, and it is worth to take part in this course.

Conclusion

I really appreciate Teikyo University, the faculty and members of the SAKURA online program for your supporting us throughout the program. I hope that I will have a chance to attend more courses from Japanese experts, especially offline course (if the epidemic situation stabilizes).

Recommendations

I would like to learn more topics in my area of interest such as pediatric post-COVID-19 syndrome, long Covid in pediatrics, especially some special lung damage in chest X ray or HRCT in pediatrics.

I find that the academic exchange between the Republic of Vietnam and Teikyo University is very helpful in my specialty, so I hope we will have more opportunities to exchange experiences to improve our knowledge in scientific research and take care patients.

Name: Do Thi Thuy Nga, M.D.
Country: Vietnam
Department: Center for Tropical Diseases, Vietnam National Children's Hospital
Position: Pediatrician

My job:

I have been working as a pediatrician in Center for Tropical Diseases for 14 years (the old name was Infectious Diseases Department). Our Center is for children having infectious disease from all provinces in the North and the Middle of Vietnam. Our Center has 170 hospital beds, with 3 departments: day care Unit, general medical care Unit, Intensive care Unit. Currently, I am working at general medical care Unit. I take care of children who have all common infectious diseases. Our group of difficult diseases includes prolonged fever, chronic EBV infection, and so on. We have been researching on chronic active EBV, so we look forward to cooperating on this matter.

Summary of SAKURA Exchange Science Program:

For 3 days, we worked with Professors Teikyo University Hospital online, we also felt the professionalism and modernity of your University Hospital and I understood more about your health care system. I was really impressed with pharmacology department preparing medicines for patients. It was an interesting course. I hope we have the opportunity to experience studying and working with experts in Japan. I'll apply what I have learned from the course to make our department better.

I would like to say thank so much to professors, specialist and others help us during this training course.

Future collaboration:

I really hope in the future we have more exchange programs and more new collaborations to develop research and training, especially pediatrics and infectious diseases.

Name: Nguyen Viet Anh, M.D.
Country: Vietnam
Department: Infection Prevention and Control, Vietnam National Children's Hospital
Position: Doctor

Introduction

My name is Nguyen Viet Anh. I'm 31 years old. I graduated from university in 2015, graduated with a master's degree in preventive medicine in 2021. I have been working at the Department of Infection Prevention and Control since 2015 until now. I have had the opportunity to work and participate in a number of courses by experts from other countries such as Sweden, the US, France... However, this is the first time I have been able to participate in a course by Japanese experts. The course is not long but very interesting and professionally organized.

Discussion

In 3 days, we have learned quite rich and diverse knowledge in the field of infectious diseases, including:
Viral infections: COVID-19, hepatitis…

- Development of new drugs for infectious diseases from silkworms
- Biological safety

It was really interesting to watch the video of your experiment, and it would be great if we could experience in person. It was so regrettable we could not see each other due to the pandemic.

Conclusion

I am grateful for Teikyo University, the faculty and members of the Sakura online program. I hope to attend more courses from Japanese experts, espicially offline course (if the epidemic situation stabilizes).

Recommendations

I would like to learn more about topics in my area of interest such as viral, bacterial infections...
I find the academic exchange between Vietnam and Teikyo University very useful. I hope we will have more opportunities to exchange experiences to improve our knowledge in scientific research and medical care.

Name: Nguyen Lam Hong, M.D.
Country: Vietnam
Department: Neonatologist Neonatal care center, Vietnam National Children's Hospital
Position: Doctor

Introduction

My name is Nguyen Lam Hong. I am 40 years old. I graduated from university in 2006, graduated with a master's degree in Pediatrics in 2013. I am currently studying for a Ph.D in the field of pediatrics – neonatology – infectious diseases. I have been working at Neonatal Center since 2007. I have also participated in teaching for Japanese students through the cooperation program between our hospital and Teikyo University since 2 years ago. I have had the opportunity to work and attend in a number of courses by experts from others countries. However, this is the first time I have been able to participate in a course taught by Japanese experts. The course is not too long but interesting and professionally organized.

Discussion

During 3 days, we have learned a fairly rich and diverse knowledge in the field of infectious diseases, including:

- Viral infection: COVID-19, hepatitis…
- Development of new drugs for infectious diseases using silkworm
- Biosafety

I really enjoy watching the videos of the experiments, it would be nice if we could learn from you in person in the future. I

have gained a lot of new knowledge.

Conclusion

I really thank Teikyo University, the faculty and members of the Sakura online program. I hope to attend more courses from Japanese experts, espicially offline course (if the epidemic situation stabilizes)

Recommendations

I would like to learn more topics in my area of interest such as neonatology, pediatric infectious diseases…
I find that the academic exchange between the Republic of Vietnam and Teikyo University is very useful, so we hope to have more opportunities for us to exchange experiences to improve our knowledge in scientific research and take care patients.

Name: Pham Thi Hong Nhung, Ph.D.
Country: Vietnam
Department: Basic Sciences in Medicine and Pharmacy, University of Medicine and Pharmacy - Vietnam National University, Hanoi (UMP-VNU)
Position: Lecturer

My job:

I have been working at UMP-VNU for nine years, seven years as a lecturer. I teach molecular biomedical and genetics at the Department of Basic Sciences in Medicine and Pharmacy. In addition to teaching, I participate in research projects on the genetic diversity of medicinal plants, the application and development of molecular biological analysis techniques for the diagnosis and treatment of various human diseases.

Summary of SAKURA Exchange Science programe:

Despite the highly complicated situation of the coronavirus pandemic, the Asia International Institute of Infectious Disease Control (Teikyo University) and the Sakura Exchange Science program still took the time to organize online lectures for us with great enthusiasm. It is an excellent effort from the program organizers. I want to express my deep gratitude to the Sakura Exchange Science Program Organizing Committee, Prof. Shoji Kawachi, Prof. Shoichi Suzuki, Ms. Miwa Okuyama, Doctor Ngo Thi Huong, the teachers and doctors who accompanied the program. Japan is a country with advanced science, technology, and medical care. I have been looking forward to learning from the medical care organization model in hospitals and laboratories at Teikyo University. I can imagine this university's research and medical activities through lectures and videos recorded from Teikyo University's hospitals and laboratories. I have acquired valuable experiences and practical knowledge during the Sakura Exchange Science program. During the 3-days study period, we were introduced to topics related to infectious diseases, viral infection and macrophage differentiation, ethnological study, the detection method of COVID-19, development of new drugs for infectious diseases using silkworm, infection experiments of influenza viruses, cancer and hepatitis viruses, biosafety and an online visit to the Department of Pediatrics. Of all lectures, I found particularly interested in the "Detection method of COVID-19" for its practical meaning and application to Viet Nam's pandemic situation. I am also particularly interested in experimental techniques in mice, silkworm models, and the detection of liver cancer neoantigens. It's a pity that due to the current condition of COVID-19, we had lost the opportunity to learn about your latest research and clinical system. I saw a lot of potential features that can be applied to our healthcare system and research procedure. In the future, I want to have the opportunity to directly participate in research and study at Teikyo University or medical schools in the network of the Sakura Exchange Science program.

Future collaboration:

I will support Japanese students who will become SAKURA Exchange Science participants at UMP-VNU. Furthermore, I would like to promote research collaboration between UMP-VNU and Teikyo Univesity, especially in molecular biomedical and genetics.

Steering Committee Record

March, 2022

2021年度　ADC運営委員会記録　＊新型コロナウイルス感染拡大のため、文書報告、審議となりました。

審議内容

＜2021年度事業報告＞　2021年度事業報告の承認：運営委員数40名

1）研究所の現状報告
　— 附属病院支援（インフルエンザ）、（SARS-CoV-2解析）
　— 大学院留学生：Ngo Thi Huongさんの研究概要
2）ADC研究所プログレスレポート
　— プロジェクト研究、他大学との共同研究
3）海外医療機関との研究交流・・・【ADC Letter Vol. 8 No. 2　ページ47, 48参照】
　— 医学部5年生：ベトナム感染症実習、医学部6年生：海外BSCへの協力
　— さくらサイエンスプラン：ベトナム医療スタッフ研修受入れ；オンライン実施
4）Stem Cell Therapy Consortium「特定認定再生医療等」基礎研究
5）ADC Letter Vol. 8 No. 2、Vol. 9 No. 1・・・発刊
6）ADC研教授会議事録（3回分）

＜2022度事業計画案＞　2022年度事業計画案の承認：運営委員数40名

・継続事業の計画
　— プロジェクト研究、他大学・機関との共同研究の継続
・海外医療機関との研究交流、共同研究、国際シンポジウム
・医学部5年生、6年生：海外BSCへの協力
・ADC Letter：Vol. 9 No. 2, Vol.10 No. 1　発刊予定

＜外部委員の先生方より頂戴したご意見＞

▶Ngo Thi Huongさんの研究

所長が長年取り組んでいらっしゃるARDSに関連するテーマで、治療に繋がる重要な研究です。研究の将来性にも述べられているように、本研究によって得られる研究成果が新型インフルエンザウイルス感染に対してだけでなく、新型コロナウイルスによる重症肺炎の治療にも有用になることを期待しています。

▶Stem Cell Therapy

モデルラット作成はなかなか大変ですね。ただ、ご苦労の末「同等の壊死巣が約50％の動物で得られるようになった」とのことですが、体重減少、長期間生存、行動学試験での有意差など、まだ課題は多いようです。引き続きのご健闘を祈念しています。

▶ベトナムとの実習などの継続

新型コロナウイルス感染症により諸外国との往来制限が続く中、感染症医学教育にとり重要な役割を持つ医学部5年生「ベトナム感染症実習」を昨年度同様オンラインでの実施であったが、今年も確実に実施出来たこと、また昨年は延期になったさくらサイエンスプランもオンラインではあったが実施できたこと、そして何よりベトナム投資カンファレンスにおいて、ハノイ国立小児病院と国際交流協定を締結したことは、ADC研がベトナムとの研究活動の交流や医療分野での協力を確実なものにしている事を示し、帝京大学医学部生の感染症教育の向上と充実、国際交流に大きく貢献するとともに、ADC研がこれまで以上に力強くアジア地域での感染症制御や国際的貢献へ重要な役割を果たすことを示しており、大いに評価出来る。

▶付属病院との連携

入院患者のコロナウイルスの変異解析を行い、病院内の感染予防への貢献をしたことは、臨床との協力関係を持つようにするという方針とも一致して、大いに評価される。

2022 年度 帝京大学医学部海外臨床実習

帝京大学医学部では、これまで、意欲のある医学部 6 年生を 1 ヶ月程度の海外臨床実習生として派遣し、BSC の単位として認めてきました。その 1 つとして、ADC 研では、海外BSC希望の学生を欧米の病院などへ紹介して今年で 4 年目となりました。帝京大学では、2020年度から国際的な視野を有した優秀な臨床医を養成することを目的として、「帝京大学医学部海外臨床実習奨学金」が制度化され、2022年度は、応募者の中から橋本みどりさんと奥龍一郎君の 2 名が採択されました。2 人とも実習の希望先が、ベトナム国立小児病院でした。実は、2 人は 5 年生の時、公衆衛生学実習で「ベトナム感染症」を選択しましたが、コロナの為渡航はできず、オンラインでの受講となりました。今回、是非ともベトナムに渡航して現地で学びたいとのことでした。なんとか実現することができ、本当によかったです。

今後、医師として医療に従事するときに活かしてくれることを願っています。

Teikyo University School of Medical Foreign Countries Bedside Clerkship 2022

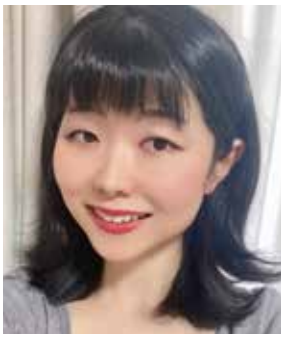
Teikyo University School of Medicine has introduced the 6th year students with ability and desire to various hospitals and institutions including National Institutes of Health (NIH) in the US, and the University of Cambridge in the UK, as an overseas bedside clerkship (BSC) for about one month. After the practice, they were granted BSC credit. This year marks the fourth year since Asia International Institute of Infectious Disease Control (ADC) Lab started to send students who wish to study BSC overseas.

報告 1

ベトナムでの海外臨床実習

帝京大学医学部医学科6年　橋本みどり

実習期間　2022年4月1日～2022年4月29日



2022年 3 月31日から 4 月29日までベトナム国立小児病院（VNCH）でのベッドサイドクラークシップ（BSC）に参加する機会をもつことができました。ベトナムを訪れるのは初めてで、大変興奮しました。ストリートフードのスパイスの匂いやトロピカルフルーツの味など、東京ではなじみのない雰囲気で心躍るものでしたが、コロナ禍での旅行に少し不安も感じていました。しかし幸いなことに、私がBSC を開始するまでに、海外旅行者の検疫など、Covid-19に関する制限のほとんどが解除されていました。しかし、Covid-19の影響は、ハノイ市内、特に病院でまだ見られ、一般の方は顔の覆いを着ていて、病院でも発熱のある患者には用心深い対応でした。それだけでなく、訪問中に病院の患者にウイルスが直接影響を及ぼしているのを見ることができました。

最初の 1 週間、私は救急およびICU の部門で事務職をやらせてもらいました。VNCH は最も深刻な症例が送られる病院であるため、私がER と ICU で見た患者のほとんどは深刻な危機的状態にありました。私がそこにいた間、SARS-CoV-2の感染によって引き起こされた小児多系統炎症性症候群（MIS-C）の10人以上の患者が治療を受けていました。MIS-C の小児症例数は、MIS-C が日本ではあまり一般的ではなく、このような短期間で多くの症例が見られることは滅多にないことで、ウイルスの広範な広がりを示しています。

私は精神科に特に興味があるので、次の週は精神科で過ごし、専門医と一緒に外来患者を診察しました。私は 1 日に約80人の外来患者を診察しましたが、これは日本で見たよりもはるかに多く、小児精神医学についての理

解を深めることができました。両親からの最も多い主張は、子供の発達の遅れ、特に言語の遅れでした。こんなにたくさんの子供たちがコミュニケーションに苦労していることに、とても驚きました。精神科医によると、「ベトナム政府はパンデミックの全期間中にすべての学校を閉鎖し、ほとんどの子供たちが家族以外の人と交流する機会を失い、それが彼らの発達を遅らせたと思われる」と。私が目撃したパンデミックによる深刻な被害の１つであると思われますが、公然と語られることはまだありません。

私がVNCHで経験した最大の経験の１つは、そこで働いていた最も情熱的で献身的な人々に会えたことです。私は何人かの新しい友達を作ることができました。そのほとんどは住民で、彼らは私をとても歓迎してくれました。私が到着した日、Dat博士とVan博士が空港まで迎えにきてくださいました。彼らは何度も私を地元のレストランに連れて行ってくださり、ベトナムの屋台の食べ物を紹介してくれました。私のお気に入りはブンチャーと呼ばれるBBQポークのライスヌードルです。そうめんに少し似ていますが、ソースが違い、少し甘くてハーブの香りがします。私はまた、戦争の勃発のために国を逃れたばかりのウクライナの医師とも交流しました。私はそこで新しい生活を始めようとしている彼女の強さに感銘を受けましたが、それと同時に彼女が負わなければならなかった想像を絶する犠牲について気の毒に思いました。ベトナムには美容院がたくさんあると聞いていたので、忙しい１日を過ごした後、彼女とVan博士と一緒に、多くのベトナム人が自由な時間に一緒に行う地元の社会活動をリラックスして体験したいと思いました。


Dr. Dat

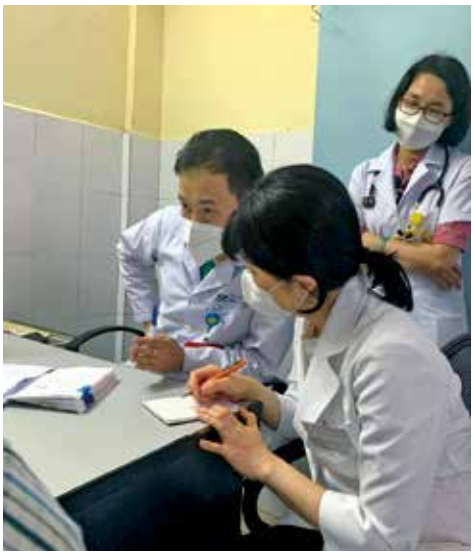
最後にBSCの機会を与えてくださった帝京大学医学部の皆様、VNCHを紹介してくださった帝京大学アジア国際感染症制御研究所の河内先生、ADC研のメンバーの方々、そして現地で支えてくださったVNCHのスタッフに心から感謝申し上げます。また、いつも世話をしてくれ、ハノイでの素晴らしい思い出を作ってくれたVNCHのDat博士に感謝申し上げます。

このBSCは、私の医学の知識を深め、また私の視野を広げる機会となりました。ベトナムで出会った人々の文化や生き方は、私に刺激を与え、自分の人生についてより深く考える機会を与えてくれました。

The Bedside Clerkship at Vietnam National Children's Hospital

Teikyo University, School of Medicine　Midori Hashimoto

I was given the opportunity to participate in the bedside clerkship at the Vietnam National Children's Hospital (VNCH) from March 31st to April 29th 2022. It was my first time visiting Vietnam and I was very excited because it was a new culture to me and I expected to experience a new atmosphere unfamiliar to me in Tokyo, like the smells of spice from the street food and the tastes of tropical fruits, but also I was anxious about travelling at this time due to the recent pandemic. But luckily most of the COVID restrictions had been lifted such as quarantine for international travellers by the time I started the clerkship. However, the influence of COVID-19 was still to be seen in the city and especially in the hospitals. The general public were still responsibly wearing face coverings and the hospitals were still cautious about visitors with a fever. I could see effects of the coronavirus pandemic on patients in the hospitals during my visit.



For the first week I began my clerkship in the department of emergency and

ICUs. As VNCH is the hospital where the most serious cases are sent, most of the patients I saw in the ER and ICUs were in serious critical condition. While I was there, more than 10 patients with multisystem inflammatory syndrome in children (MIS-C) caused by the infection of SARS-CoV-2 were being treated. The number of paediatric cases of MIS-C indicated the wide spread of the virus, as you may know MIS-C is not very common in Japan and it is rare to see so many cases in such a short time.

Since I have particular interests in psychiatry, I spent the next few weeks in the department of psychiatry and observed outpatients with its specialists. I observed about 80 outpatients a day which is significantly more than I have seen in Japan and very quickly deepened my understanding of paediatric psychiatry. The most frequent claim from the patient's parents was their child's developmental delay, especially their language delay. I was fairly surprised with the fact that such a large number of children have difficulty in communication. According to the psychiatrists, the Vietnamese government closed all the schools during the whole period of the pandemic and most children lost their chances to interact with others apart from with their family, which has supposedly delayed their development. It was one of the serious damages brought upon by the pandemic that I witnessed that is still not openly talked about.

One of the greatest experiences I had in VNCH was that I was able to meet some of the most passionate, dedicated people that worked there. I made several new friends there, most of whom were the residents and they were very welcoming towards me. On the day I arrived Dr. Dat and Dr. Van collected me from the airport. They often took me to local restaurants and introduced me to the famous world of Vietnamese street foods. My favourite was rice noodles with BBQ pork called Bun-cha. It is somewhat similar to somen, very thin noodles but the sauce was different, a little sweet with a herbal scent after taste. I also interacted with a doctor from Ukraine, who had just fled the country due to the outbreak of the war. I was impressed with her strength trying to start a new life there, but felt sorry about the unimaginable sacrifice she had to bear. I had heard that Vietnam has a lot of beauty salons, and so together with her and Dr. Van after a hard day's work we wanted to relax and experience a local social activity that so many Vietnamese do in their free time together.

I would like to express my sincerest gratitude to Dr. Kawachi of Asia International Institute of Infectious Disease Control, who had introduced me to VNCH, ADC members, and the staff of VNCH, who had supported me throughout my clerkship. I am also very grateful to Dr. Dat of VNCH, who took care of me all the time and gave me such a wonderful memory in Hanoi. This clerkship has given me a chance to deepen my knowledge of medicine and also broaden my perspective. Their culture and way of life of the people I met there has inspired me and given me deeper thoughts on my own life.

報告 2

ベトナム国立小児病院での臨床実習を振り返って

帝京大学医学部医学科6年　奥龍一郎
実習期間　2022年4月1日～2022年4月29日

私は 6 年海外臨床実習にてベトナム国立小児病院で 1 か月間、臨床実習を行いました。新型コロナウイルス感染症の流行により実習を行えるか危ぶまれていましたが、ADC研の先生方の多大なご尽力により2022年 4 月 1 日から 4 月29日までベトナムの首都ハノイに滞在することができました。私にとっては初めての海外渡航でしたが、その不安が吹き飛ぶくらいとても充実した日々を過ごせました。このレポートで実習内容を紹介していきます。

ベトナム国立小児病院を志望した理由は、熱帯病について興味があったからです。また、Tran Dat先生からベトナム国立小児病院のレクチャーを受け、世界最先端レベルの小児外科手術を行っていることを知りました。以前から海外の心臓手術を見学してみたかった私にとって、この実習はとても有意義なものに思えました。

4 月 4 日、5 日は救急科を見学しました。医師たちは患者さんが搬入されたらバイタルサインをチェックしすぐに病室へ運んでいました。そして医師の補助のもと問診と診察を行いました。患者さんは英語が話せない人が多かったのですが、私たちの英語を医師がベトナム語に翻訳し患者さんに伝えてくれたおかげで診察をすることができました。

4 月 6 日から 8 日は外科集中治療室を見学しました。ベトナムには外科ICU専門医がおり、外科医は手術だけに集中することができます。とても良い制度だと思いました。ある小児患者を観察していたのですが、突然脈拍が180まで上がり驚いて医師を呼びました。すると医師が来て「頻呼吸による頻脈だから正常だ」と教えてくれました。児は覚醒しておりたしかに元気そうでした。モニターだけでなく児の表情も観察することが大事だと気づきました。

4 月12日から15日は心臓血管外科を見学しました。手術室は日本の大学病院と同規模の設備が備わっていました。見学した手術は先天性の心房中隔欠損症、心室中隔欠損症、完全大血管転位などでした。手術室に入ると麻酔科医から論文を一枚渡され、これからする手術について書かれているから読むようにと言われました。その論文は、右側の脇の下に小さな穴をあけてそこから器具を挿入することで心室中隔を閉鎖するという内容でした。この手術はMICS手術と呼ばれており、低侵襲な手術法として現代の心臓外科で注目されている分野だそうです。3 時間ほどで手術は終わり、医師から手術の方法について教えてもらいました。4 日間でたくさんの手術を見学できたことが良かったです。

4 月18日から22日は循環器科を見学しました。先天性心疾患のある小児患者さんが多くいました。ベトナム国立小児病院は研修医が多く、研修医に身体診察の方法を教わりました。心不全の患者さんでは肝腫大がみられることがあり、肝臓の触診をしっかり行っていたことが印象的でした。小児は生理的に肝臓が肋骨下に触れるため、肝腫大があると思っても正常所見だったことがたびたびありました。

4月25日から29日は熱帯病センターを見学しました。熱帯病センターでは髄膜炎の患者が多くいました。指導医は腰椎穿刺がとても上手で、やりかたを見学して教わりました。医師はとても忙しそうだったので、許可をいただいた上で全ての患者の聴診を日課にしていました。約30人の患者さんの胸の音を聞いていると、徐々に心音と呼吸音を理解できるようになりました。

この臨床実習で海外の医療に触れたことは、私にとってかけがえのない体験となりました。この素晴らしい機会を与えてくださったADC研の河内正治先生、鈴木章一先生、奥山美和さん、ベトナム国立小児病院のTran Dat先生、同じ海外留学生として助けてくれた同級生の橋本みどりさんに感謝いたします。

Clinical Training at Vietnam National Children's Hospital

Teikyo University, School of Medicine　Ryuichiro Oku

I had an opportunity to have a clinical training at the Vietnam National Children's Hospital as part of my 6th year overseas clinical internship. Due to the outbreak of the coronavirus pandemic, there were concerns about whether I would be able to complete the internship, but thanks to the kind support of the professors of the ADC, I could visit and stay in Hanoi, the capital of Vietnam, from April 1 to April 29, 2022. This was my first overseas trip, but I was able to spend such fulfilling days. I will report the contents of my practical training.

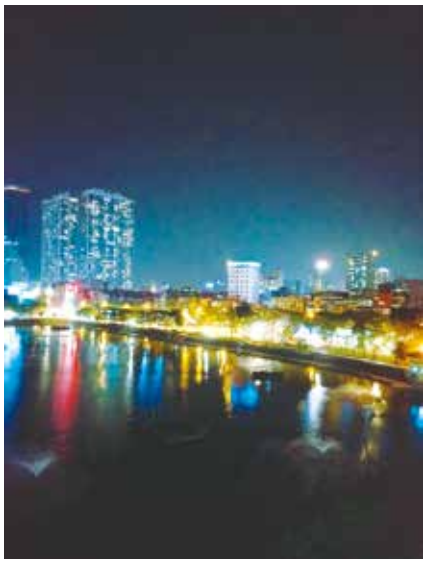
I applied to the Vietnam National Children's Hospital because I was interested in tropical diseases. I also learned from Dr. Tran Dat that the Vietnam National Children's Hospital performs pediatric surgery at the world's most advanced level. I had been longing to observe heart surgery overseas, and this training seemed very meaningful to me.

On April 4 and 5, I visited the emergency department. When a patient arrived at the hospital, the doctors checked vital signs and immediately took the patient to a hospital room. Many of the patients did not speak English, but we were able to examine them thanks to the doctors who translated our English into Vietnamese.

From April 6 to 8, we visited the surgical intensive care unit (ICU). In Vietnam, there is a surgical ICU specialist system, which allows surgeons to concentrate only on surgery. I thought this was a very good system. I was observing a pediatric patient, his pulse suddenly rose to 180 and I called the doctor in surprise. The doctor came and told me that it was normal because it was tachycardia caused by tachypnea. The child was awake and seemed to be in good health. I realized that it is important to observe not only the monitor but also the child's facial expressions.

From April 12 to 15, I visited the cardiovascular surgery department. The operating room was equipped with the same scale of facilities as a university hospital in Japan. The surgeries we observed included congenital atrial septal defects, ventricular septal defects, and complete transposition of the great vessels. Upon entering the operating room, the anesthesiologist handed me a paper and told me to read it beforehand as it described the surgery to be performed. The paper was about closing the ventricular septum by making a small hole in the right armpit and inserting an instrument through the hole. I was told that this surgery is called Minimally Invasive Cardiac Surgery (MICS), and that is attracting attention in modern cardiac surgery.

From April 18 to 22, we visited the Cardiology Department. There were many pediatric patients with congenital heart disease in there. There were many residents at the Vietnam National Children's Hospital, and the residents taught me how to perform physical examinations. I was impressed by their thorough palpation of the liver, as hepatomegaly is sometimes seen in patients with heart failure. Because the liver physiologically touches the lower ribs in children, there were many cases where hepatomegaly was thought to be present, but actually the findings were normal.



From April 25 to 29, we visited the Tropical Disease Center. In the tropical disease center, there were many patients with meningitis. The supervising physician was very good at lumbar puncture, and I observed and learned how to perform lumbar puncture. The doctors were very busy, so with their permission, I myself did a daily auscultation of all patients. After listening to the chest sounds of about 30 patients, I gradually came to understand heart and respiratory sounds.

This clinical practice allowed me to experience overseas medical care, which was an invaluable experience for me. I would like to express my gratitude to Pres. Yoshihito Okinaga of Teikyo University and Prof. Shoji Kawachi, Dr. Shoichi Suzuki, Ms. Miwa Okuyama of the ADC, Dr. Tran Dat of the Vietnam National Children's Hospital, and my classmate Midori Hashimoto who helped me as a fellow overseas student, for giving me this wonderful opportunity.

TAVP-Training for Students

July 18-22, 2022

医学部５年生：衛生学公衆衛生学実習「1.ベトナム感染症」

2020, 2021年度と２回にわたり、新型コロナウイルスの影響でオンラインにて実習を行った、医学部５年生：衛生学公衆衛生学実習「1.ベトナム感染症」ですが、今年度は、いよいよ現地開催になります。

In 2020 and 2021, the practical training in Vietnam for 5th grade medical students was conducted online twice due to the coronavirus pandemic, but this year, it has finally been decided to be held in person in Vietnam.

実習概要

臨床実習、国際保健・予防医学や医療システムについての学習

実習期間

2022年７月18日（月）～ 22日（金）

研修先

・国立小児病院：ICU、呼吸器、循環器、感染症、救急、臨床疫学、他
・JICA
・ハノイ医科大学

付添教員

ADC研：河内正治、鈴木章一
小児科：高橋和浩
大学院生、小児科医：Ngo Thi Huong

実習参加予定者

医学部５年生

班	班名	担当教員	氏名
１班	ベトナムにおける感染症	河内正治	和賀莉緒菜
			藤原有佳里
			秋元　美穂
			徳永　安美
			河合　　謙
			齋藤　　僚

実習予定

Draft program for Summer Training in 2022 (Teikyo University)

July 18(Mon)-21(Thu), 2022

	18 Mon.	19 Tue.	20 Wed.	21 Thu.
AM	9:00-10:30 **NCH: Opening ceremony, Laboratory visit**	9:00-10:30 **NCH: Cardiac Intervention, Cardiology Dept.**	9:00-10:30 **NCH: Infectious Dept.**	9:00-10:30 **Closing Ceremony**
	10:30-11:30 **NCH: NICU**	10:30-11:30 **Neonate Intensive Care Unit (NICU)**		10:30-11:30 **JICA**
12:00 Lunch				Lunch outside
PM	13:30-16:30 **NCH: Emergency Dep.**	13:30-16:30 **NCH: PICU, SICU**	13:30-16:30 **NCH: Respiratory Dept.**	13:30-16:30 **HMU Lectue Infectious Dis**

EVENTS LIST

開催したイベント（2021.1.1～2022.6.30）

日程	イベント名	演者など	
2022年3月7日(月)～3月9日(水)	SAKURA Science Plan 2021	Vietnamから研究生　13名	オンライン開催
2022年3月	2021年度 ADC運営委員会		文書審議

今後のイベント情報（2022.7.1～2022.12.31）　※新型コロナウイルスの情勢により変更になる場合があります。

日程	イベント名	演者など	
2022年9月下旬頃	TAVP　報告会（ベトナム感染症）	医学部5年生　6名、教員	本部棟
2022年8月31日(水)	第1回　バイオセーフティ講習会	棚林清 感染研バイオセーフティ管理室	大学棟
2022年8月29日(月)	第4回　帝京大学研究交流シンポジウム	ADC研	大学棟
2022年7月18日(月)～22日(金)	TAVP Training for 6 Students (5-year)	国立小児病院、ハノイ医科大学ほか	
2022年7月2日(土)	帝京大学大学院　学位論文中間発表会	Ngo Thi Huong (D3)	大学棟

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