**Division of Infectious Diseases**  
Department of Pediatrics  
Tokyo Metropolitan Children’s Medical Center

**Address**  
2-8-26 Musashidai  
Fuchu city, Tokyo 183-8561, Japan

1) History

Tokyo Metropolitan Children’s Medical Center was newly opened in March 2010 after merging three children's hospitals and one pediatrics of general hospital. (Tokyo Metropolitan Kiyose Children's hospital, Tokyo Metropolitan Hachioji Children's hospital, Tokyo Metropolitan Umegaoka hospital and Department of Pediatrics at Tokyo Metropolitan Fuchu hospital) Division of Infectious Diseases was also newly started in August 2010 with Dr. Yuho Horikoshi alone, as the former hospitals did not have infectious diseases' service. Our fellowship program started in April 2011, and number of attending physicians became two in October 2011. Currently, the division holds 6-8 fellow physicians for clinical training and research. The division covers 6 main area: 1. Clinical Infectious Diseases, 2. Infection Control and Prevention, 3. Antimicrobial Stewardship Program, 4. Clinical Microbiology, 5. Education, and 6. Research.

2) Clinical Infectious Diseases

Tokyo Metropolitan Children’s Medical Center has 561 pediatric beds with full range of subspecialties. Pediatric emergency center takes care of patients from primary to tertiary for approximately 38,000 per year. Pediatric patient’s volume is the largest in Japan. Infectious diseases' service is provided by consultation approximately 1,200 cases per year. Clinical ID teams are divided in wards-team and units-team. Various community infectious diseases can be experienced, occasionally travel related diseases and sexual transmitted diseases are seen. Severe infections, congenital infections and healthcare acquired infections can be experienced at pediatric intensive care unit (PICU, 22 beds) and neonatal intensive care unit (NICU, 72 beds, level 1-3). Immunocompromised infections can be seen at hematology/oncology, hematopoietic stem cell transplant, solid organ transplant and patients with immunosuppressive therapy. An infectious diseases ward (28 beds) was designed to be negative pressure, including
rooms for tuberculosis. Infectious diseases clinics are open at Wednesday and Friday afternoon for patients with mild infections, chronic infections, congenital infections, Hepatitis B and C, vaccinations for special population, primary immunodeficiency, and autoinflammatory diseases. Number of outpatient visits in 2016 was 846.

3) Infection Control and Prevention

Monthly infection control and prevention (ICP) committee and subcommittee are taken place for any matters regarding to infections. Weekly rounds and meeting are also done with multidisciplinary team. Our facility is certified for training in ICP by Japanese society for infection prevention and control.

In 2010, improving hands hygiene was our priority that many alcohol bottles for hands rubbing was set for easy access. Computer-based healthcare acquired infections surveillance was implemented in PICU. Antimicrobial resistance is monitored closely by microbiology lab and ICP team. Molecular testing is available for genotyping to trace specific bacteria, testing for resistance gene and detection for viruses. All workers including non-medical are required to complete appropriate immunization to protect children. Immunization includes pertussis vaccine as well.

4) Antimicrobial Stewardship Program

Monthly antimicrobial stewardship program (ASP) subcommittee is taken place to enhance optimization of antimicrobial agents. In October 2011, computerized pre-authorization for specific agents were implemented. Approximately a half of oral and intravenous antimicrobial agents need permission by infectious diseases’ service for dispensing. Prospective audit and feedback are provided everyday basis at 48-72 hours after starting medications and timing to end therapy. Restrictive reporting is also applied that agents of third line and more does not display in susceptibility reports of bacteria. Perioperative surgical prophylaxis manuals are updated according to the latest international guidelines. ASP activities were expanded to outside of our facility, the long-term care hospital and community. We provide lectures in community targeting both healthcare professionals and general public.

A number of scientific articles on ASP were published to assess safety and effectiveness of our program. Our ASP was awarded for an outstanding activity by Tokyo metropolitan government in February 2018. Our ASP is also listed in advanced policy in national
registry of Association of Prefectural Governors.

5) Clinical Microbiology

In-house microbiology lab is available for most of bacteria, and common fungus and mycobacteria. Molecular testing is ran by research funding that most of pathogenic viruses can be detected. PCR was tested for 5,000 samples per year. Pulse-field gel electrophoresis, 16s ribosome assay, genotyping are also available in-house. Commercial lab provides serology, IGRA and virus isolation.

6) Education

Our fellowship program is accredited by Japanese society for pediatric infectious diseases. Educational activity includes teaching rounds, ICP meeting, hem/onc conference, online conference, clinic review, journal club and Q of week. Every year, we host Peds ID summer seminar that participants come from all over the Japan ranging 120-150 people.

For international applicants for training without Japanese medical license, only observership is applied under supervision. Elective rotation is accepted by first-come and first-served basis for available spots in minimum duration of 4 weeks. English or Japanese speaking is required. Hospital does not fund trainee during observership. Travel fee and visa must be arranged by applicants, but necessary assistance will be provided.

7) Research

Research is supported by clinical research center which provides design and statistical advices, English editing and data center for multicenter study. Clinical trials are also underway. Domestic and international publications are encouraged that 16 papers were published in fiscal year of 2017.
ID team
New year party

Japanese society for PID
Awarded fellows

Peds ID summer seminar
Lecturers

Online conference
with other children’s hospitals

International aid
Nairobi, Kenya

Outstanding award for ASP activity
with governor of Tokyo, Ms. Koike
Divisions of ID consultation received

Infected organ/system of consultation
International publications in fiscal year of 2017


Abstracts at international conferences in fiscal year of 2017


Contact for inquiry

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ID staff

Yuho Horikoshi, MD
Division chief
Director of ICP

Showa University, 2001
Peds ID training: The Hospital for Sick Children, University of Toronto, Canada
Likes
Football, baseball, snowboarding and skiing

Kahoru Fukuoka, MD
Director of ASP

Tokushima University, 2010
Peds ID training: Tokyo Metropolitan Children’s Medical Center
Likes
Reading and computer

ID Fellows

Takemi Murai, MD, PhD

Nihon University, 2006
Likes
Drinking and sleeping

Kotaro Araki, MD

Nagasaki University, 2006
Likes
Diving, ocean, running and swimming
Sho Ishi, MD

Nihon University, 2010
Likes
Oversea travel and hot spring

Ryu Yoneda, MD

Tokyo University, 2012
Likes
Drinking, running and climbing mountains

Hanako Funakoshi, MD

Chiba University, 2012
Likes
Climbing mountains, walk in beach and photographing

Keiko Okita, MD

Kurume University,
Likes
Hiking around Mt. Fuji
Midori Tanikawa, MD

Tohoku University, 2013
Likes
Travel and collecting picture books

Kazuhiro Uda, MD
Research fellow

Wakayama Pref. Medical University, 2010
Likes
Travel

Yusuke Terada, MD
Part-time

Nihon Medical University, 2008
Likes
Cats

Keiko Soneda, MD
Part-time

Showa University, 2013
Likes
Hot yoga