

(Abroad • Domestic) Official trip report form (Student)

2015/12/09 (Year/Month/Day)

Name	Yogendra SHAH
Laboratory	Divison of Bioresources, Research Center for Zoonosis Control
Year (Grade)	D3
Destination	Cape Town, South Africa
Period of trip	December 2 to 6 December, 2015
Purpose of trip	To attend the 46 th union world conference on lung health. The specific purposes is : <ul style="list-style-type: none"> To present a short oral presentation on entitled “Diversity of MIRU-VNTR among <i>Mycobacterium tuberculosis</i> Central Asian family isolates from Nepalese patients” at TB epidemiology: from Malawi to Taiwan session.

Summary of activities (about 800 words, provide photos, tables and figures that clearly show the activities during the period)

I arrived Cape Town, South Africa on December 1, 2015. From December 2, I attended the 46th union world conference on lung health. The main theme of conference “A new Agenda: Lung Health Beyond 2015”. This theme reflects the changing landscape of the global public health, and the new era of action that will embark on together in the coming years. The five-day scientific conference address how these new agendas will influence the inter-related fights against tuberculosis, HIV, lung disease and non-communicable diseases, as well as the global campaign for tobacco control. This conference was mainly focused those researchers, scientists and students who are working especially on the lung diseases like tuberculosis and one of best platform to disseminate their novel findings from all over the world. On the opening day two keynote lectures were delivered Dr. Aaron Motsoaledi, Minister of Health of South Africa talked about “The situation and how to control the major killer infectious disease, tuberculosis (TB), in South Africa”, “The road ahead to end TB” and “South Africa’s next steps”. Dr. Mel Spigelaman, CEO, TB Alliance gave lecture on “The better TB treatment for children”. After these lectures, there were several parallel sessions covering different themes of TB as follows.

- WHO Global TB symposium
- Writing the paper and keeping the editor happy
- An example of writing a scientific paper
- Moving research to policy and practice
- Operational research skills in one day
- Adding connectivity to your TB diagnostics
- Challenges in setting up phase 2/3 MDR-TB clinical trials

I mainly attended the session termed “Writing the paper and keeping the editor happy” and “Operational research skills in one day” as I am keenly interested to know and learn effective way of writing scientific paper skills further which are more important tools and help to writing the paper or different purposes. The operational research workshop was also designed to show participants what was operational research? And how scientific findings can help in changing policy and practice in low and middle income countries.

The second day, December 3, was started with keynote lectures from Mr. Matamela Cyril Ramaphosa, Deputy President, South Africa about the turning the tide against lung disease in South Africa and Mrs. Juliet Vivien Naluma, coordinator for mothers 2 mothers in Uganda about overcomes TB/HIV to live an



empowered life: a testimonial. These two keynote lectures covered the facing problems living with TB/HIV in both countries South Africa/Uganda, how they can tackle the lung diseases to reduce the incidence rate and explains how she can provides essential health education and support to other HIV-positive women to prevent transmitting HIV to their babies and stay healthy. After these lectures, there were several parallel sessions covering different themes of lung diseases as follows.

- Ensuring MDR-TB patient information and adherence counselling is a key part of patient centered care
- WHO consolidated guidelines for treatment of TB
- Towards a community and patients-centered movement
- Access to TB medicines beyond 2015: the dynamics of demand and supply
- Molecular diagnostics: bringing together the basic science and clinical worlds

I mainly attended workshop about “Ensuring MDR-TB patients information and adherence counselling are key part of patient-centered care”. This workshop main aims to gain an in-depth understanding of approaches to MDR-TB patient information and adherence counselling and recognize that patient communication is a central clinical function in the delivery of quality TB care.

The third day of December 4 was started with plenary sessions about the state of TB and HIV on the 27th anniversary of world aids day from Dr. Mark Dybul, Executive Director, The Global fund to fifth AIDS, Tuberculosis and Malaria, Mr. Michel Sldibe, Executive Director of UNAIDS and under-secretary-general of united nations Dr. Linda-Gail Bekker, Professor of Medicine and Deputy Director, Institute of Infectious Disease and Molecular medicine, University of Cape Town and Ms. Constance Manwa TB survivor, Zimbabwe. After this discussion, there were also several parallel sessions as other days covering the 24 different themes of TB as follows.

- Best practice in management of side effects among DR-TB patients to improve quality of care
- Outstanding issues in HIV/AIDS treatment
- Zoonotic TB session I-Trends, diagnostics and infections models
- The molecular basis PZA resistance: from bench to bedside
- Role of surgery in management of TB: A promise or redundancy?
- Research is needed to increase children’s access to DR-TB care

I mainly attended the “Zoonotic TB session I: Trends, diagnostic and infection models”. This symposium was very well discussed about to address the challenges posed by zoonotic TB based on one health concepts. The other importance points were illustrated how to create global awareness for zoonotic TB and its impact on public health, to highlight the progress in TB diagnostics and identify areas of synergy in preventing and controlling zoonotic TB. At the lunch break, I observed the poster and e-poster sessions found that there were different types of tuberculosis research preforming by applying novels kinds of methodology to detect the mycobacterial diseases. I am very much impressive on poster session and learned how can make the attractive, effective and presentation skills for e-poster.

December 5 and 6 were the main important days of the conference. The day of December 5 was started with plenary sessions from Prof. Paul van Helden, Stellenbosch University about drug resistance and the contribution of zoonotic TB and Mr. Rev Nicholas Busani Bhengu, about Ubuntu and research involving communities with a high burden of TB. These two plenary sessions focused and discussed on the drug resistance TB bacilli as well as contribution of zoonotic TB perspectives. After these lectures, there were also several meeting sessions as other previous days covering different themes of tuberculosis. I mainly attended the “zoonotic TB session II: what do humans, baboons and livestock have in common?” This symposium was covering all aspects of zoonotic TB and identifies the areas of synergy in preventing and controlling zoonotic TB.

I presented my short oral presentation entitled “**Diversity of MIRU-VNTR among *Mycobacterium tuberculosis* Central Asian family isolates from Nepalese patients**” at TB epidemiology: from Malawi to Taiwan session on December 6. I got the suggestion and recommendation from the audience to improve my research study. They also asked me the way to implement research to control the TB in Nepal. I tried my best to explain the questions more understandable way to audiences. This presentation hall was one of platform where I meet the renowned researchers who are working especially on tuberculosis and sharing their scientific research experience on the field of lung disease.



Oral presentation at the conference

Finally, I returned back to Japan from South Africa Conference on December 7 and arrived on night of December 8.

I found this conference was very informative and important to know about the different molecular genotyping tools, techniques, drug discovery and approaches of tuberculosis diagnosis which will help to control and prevention of TB in high burden countries. I would like to sincerely thank to leading office especially Prof. Motohiro Horiuchi, Yuki Maki San, Prof. Yasuhiko Suzuki, Prof. Chie Nakajima sensei and Yuko Hidaka San for helping me to attend this conference and sincerely look forward to getting the opportunities in the future.



Photo with National tuberculosis Center
WHO, Head (Children TB) Director, Nepal

Approval of supervisor	Institution • Official title • Name : Hokkaido University Research Center for Zoonosis Control Professor Yasuhiko SUZUKI <div style="text-align: right;">印</div>
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