

**The Japanese Association of Rehabilitation Medicine (JARM)
Annual Report (2017 Winter)**

**Reports of the Participants in Traveling Fellowship program (2017) supported by
the Japanese Association of Rehabilitation Medicine (JARM)**

Japanese Physicians supported by the Traveling Fellowship program (2017)

1) Daisuke Nishida, M.D., Ph.D.

Saiseikai Kanagawa-ken Hospital, Kanagawa, Japan

Conference: 11th International Society of Physical Rehabilitation Medicine (ISPRM) World Congress , April 30 - May 4, Buenos Aires , Argentina

Presentation Title: The physiological mechanism of gait improvement with rhythmic stimulation in patients with Parkinson's disease

Report: I joined ISPRM 2017 in Buenos Aires and held a poster presentation. It was a very exciting experience to give a presentation and discuss my research with the audience from all over the world, and to learn new topics about robot rehabilitation, evidence based rehabilitation, cancer rehabilitation and so on.

My presentation was titled, “The physiological mechanism of gait improvement with rhythmic stimulation in patients with Parkinson's disease”. I discussed with Dr Levack from New Zealand, whose speciality is movement analysis and EBM, how to select patients without bias. Dr Rafanan and Professor Rey-Matias from Philippine were also interested in my research and advised me how to evaluate the gait more smoothly and precisely. I joined pre-congress hands-on sessions on “Wheelchair design, prescription and fitting” and “Rehabilitation Research: All you need to know to start”. The former session was very practical and educational, so we could learn how to prescribe wheelchairs systematically with chart from International Society of Wheelchair Professions (ISWP). The latter, facilitated by Professor Fary Kahn from Melbourne Australia, was also educational and extraordinary interesting session. After the overview lecture of systematic review and systematic method of clinical research such as PICO, we made clinical question and PICO and tutor advised us to make the clinical question more rehabilitation oriented. I joined many sessions such as 1.robot rehabilitation by professor Saitoh from Fujita Health University, Japan, and professor Krebs from MIT, USA, 2.evidence based rehabilitation medicine session by Dr Levack from New Zealand and professor Kahn from Melbourne Australia and 3. review of rehabilitation on patients with Parkinson’s disease. Among the sessions, I strongly convinced that robot rehabilitation is progressing rapidly and Japan contributes much part of the progress. It was very exciting

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experience to join ISPRM 2017 for me and this experience encouraged me to continue clinical research on rehabilitation.

I appreciate JARM for giving me the travel grant for ISPRM 2017 and professor Liu, Dr Mizuno, Dr Ebata and colleagues for allow me to join ISPRM 2017.

2) Yohei Otaka, M.D., Ph.D.

Department of Rehabilitation Medicine I ,School of Medicine,Fujita Health University, Aichi, Japan

Conference: 51th International Society of Physical Rehabilitation Medicine (ISPRM)World Congress , April 30 - May 4, Buenos Aires , Argentina

Presentation Title: Detectability of four well-established balance measures to identify the risk of falling in community-dwelling older people

Report: The 11th world congress of ISPRM was held at Hilton Buenos Aires, Buenos Aires, Argentina, from April 30 to May 4, 2017. There were 1,789 participants from 79 countries. Although a long trip (about 30 hours!) was needed to get to Argentina, which is located at the opposite side of the earth from Japan, about 50 Japanese professionals participated to the congress. The scientific programs included 106 sessions from broad categories; topics on various pathological conditions, such as polio, amputation, spinal cord injuries, stroke, neurological diseases, orthopedic problems, pain, cancer, sarcopenia; topics on various interventional and analytical methods, such as robotics, gait analysis, ultrasound; and other topics such as EBM, education, ICF, WHO etc. Among those interesting sessions, I was especially inspired by the session named "Medical Leadership: Engagement, Innovation, and Commitment to Grow Our Specialty", where many authorities from various countries gathered to discuss about the leadership of physiatrist. In the congress, I reported about the detectability of four balance measures for the risk of falling in an e-Poster. In addition, I participated in the panel "International cancer rehabilitation initiative", where I talked about the current status of cancer rehabilitation in Japan. We shared the information and discussed how to collaborate internationally to establish cancer rehabilitation worldwide. Such global communication was a great experience for me. During the congress, a film crew walked around and asked the participants to make a dance. At the closing ceremony, a movie entitled "Congreso ISPRM 2017 HAPPY", consisting of funny dancing scenes from various countries, was shown. The congress finished with a great success and good atmosphere. We really look forward to the world congress of the ISPRM in Paris next year, and in Kobe in 2019.

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3) Hirofumi Maeda, M.D., Ph.D.

Head of the rehabilitation Medicine/Ise Municipal General Hospital,Mie,Japan

Conference: 10th World Congress for Neurorehabilitation 7th - 10th February, 2018,
Mumbai, India

Presentation Title: Development of a measurement device and a separation method of neural component from Ankle plantarflexion torque for clinical application

4) Mitsuhiro Ochi

Department of Rehabilitation Medicine University of Occupational and Environmental Health(UOEH),School of Medicine,Fukuoka,Japan

Conference: 10th World Congress for Neurorehabilitation 7th - 10th February, 2018,
Mumbai, India

Presentation Title: Reliability of the device using a hand-held dynamometer for the assessment of ankle dorsiflexor muscle strength

A Foreign Physician supported by the Traveling Fellowship program (2017)

Ali Yavuz Karahan

Department of Physical Medicine and Rehabilitation, Konya Training and Research Hospital at Konya , Turkey