IAA Study Group Status Report

Responsible Commission: Commission 2

Study Number and Title: Study group 2-15 Immersion study

Responsible Commission: Immersion Model: Importance for Space Life Science Studies

Short Study Description (repeat from Study Group Proposal):
The main goal is the assessment of effects of immersion models in different physiological systems of human body and comparison of them with the effects of weightlessness

Intermediate goals: are as follows
1. Development of standard protocols and methods of studies in different immersion models. Comparison of the efficacy of different immersion models (dry immersion, head-out water immersion, vertical and horizontal immersion and others).
2. Comparison of the effects and timelines of their development in Immersion versus Bedrest.
3. Comparison of the effects and timelines of their development in Immersion versus Spaceflight.
4. Advantage and disadvantage of different kinds of immersion models for development of new countermeasure means and methods.

Progress in past six months:
The members of this study group have been collecting references concerned with immersion studies, including head-out immersion and dry immersion. They are going to list up a history of immersion studies on international basis.

Ragnar Viir, who has been recommended as a study-group member, proposed and planned to organize an international immersion symposium in Tallinn, Estonia just after the last ISGP meeting at ESTEC, Noordwijk, the Netherlands in June 2018 to discuss usefulness of different kinds of immersion model for research and treatment of human physical troubles, but unfortunately it was not realized because of financial problems.

Tadaaki Mano, one of Chairs of Study group 2-15 is invited to present historical review of researches related to immersion as a simulation model of microgravity in a Symposium: Current Concepts of Gravitational Physiology in the next ISGP Meeting to be held in Nagoya, Japan in May 2019.

Issues requiring resolution? (recommend approach):
International cooperation will be pushed with participation of more researches from numerous countries

Product Deliveries on Schedule? (If modified explain rationale):
Study Team Member Changes? (List any Study Team Members that you wish to discontinue, and provide names plus contact coordinates of any Members you wish to add on the second page of this Study Update form.) Note: Complete contact information including email, tel. and fax must be provided for all additions. Only Members with complete contact information will be listed and receive formal appointment letters from the IAA Secretariat.)

Name of person providing Study Group Status (Study Group Chair or Co-Chair): Tadaaki Mano, Gifu University of Medical Science, Seki, Gifu, Japan
Status Report Date: 18 March 2019

Study Team Membership Changes

Effectivity Date: 18 March 2009

Discontinue:

Name
Current email address

Add:

Name Ragnar Viir
Current email address: ragnar.viir@ut.ee
Tel.
Fax
Mailing address