

IAA Study Group Status Report

Responsible Commission: COMMISSION 2 on Space Life Sciences

Study Number and Title: SG 2.9 International Standards for Bed Rest Studies

Short Study Description (repeat from Study Group Proposal):

Overall Goal: To define and agree internationally, standard conditions and basic, standard measurements for space flight related bed rest studies.

(Expected scientific or practical benefit of the study group's efforts)

Intermediate Goals: To exchange and analyse existing standards for bed rest studies of different agencies; identify differences and clarify rationales for them; identify approaches to standardized measurements between the agencies; through study group meetings, possibly in conjunction with IAA/IAC symposia, attempt to describe a set of standard conditions and measurements that increase comparability and overall level of quality for bed rest study results. Prepare descriptive report, as well as a “requirements checklist” to evaluate a given bed rest study against the internationally agreed standards. Present the study outcome at scientific symposia.

Progress in past six months:

The bedrest standardization group has been divided in two groups: Study standardization and standardization of measurements.

Bedrest Study standards: The three existing standards (ESAs, NASAs, and the former IMAGs) for bedrest studies have been collected. These are distributed among the group. The first workshop took place on March 25th at ESA HQ, Paris. The second workshop took place September 29th in conjunction with IAC in Prague where the different chapters of the report was discussed. Furthermore it was also clarified to what level of detail the standardization could realistically encompass. Next workshop is planned for April 10 in Houston in conjunction with the IAA Humans in Space Symposium.

Standard measurements: R. Cromwell, I. Larina and P. Sundblad, have recruited necessary expertise in USA, Russia, and Europe, respectively, in order to develop a draft international set of standard measurements for bedrest studies. Three different lists of measurements have been produced. A series of teleconferences have been conducted and a set of standard measures agreed by IBMP, NASA and ESA has been defined. A first document is drafted that outline the different measurements and how they should be obtained (Standard Operating Procedures. The list as a whole will be discussed April 10, also taking into account resource requirements for these standard measurements and to set a threshold on the level of ambition related to these.

Website Study Information up to date? (Study Group Membership, Study Plan and Schedule): Yes

Issues requiring resolution? (recommend approach):

No

Product Deliveries on Schedule? (If modified explain rationale):

Yes (almost). It is foreseen that a final meeting in autumn 2011 is necessary before finalize the Study Group Report.

Study Team Member Changes?

No

Name of person providing Study Group Status (Study Group Chair or Co-Chair):
Patrik Sundblad

Status Report Date: 18/03/2010

Study Team Membership Changes

Effectivity Date:

Add:

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