Proposal for Forming an IAA Study Group  SG 2.9

Title of Study: International Standards for Bed Rest Studies

Proposer(s): P. Sundblad  
(Must be member(s) of the Academy)

Primary IAA Commission Preference: Commission 2- Space Life Sciences  
(From Commission 1 to Commission 6)  
Secondary IAA Commission Interests:  
(From Commission 1 to Commission 6)

Members of Study Team

Chair(s): P. Sundblad, O. Orlov  
(Must be member(s) of the Academy)

Secretary: D. Francisco

Other Members:  
(Open to non- members of the Academy)

M.-P. Bareille  
B. Godard  
I. Larina  
I. Kozlovskaya  
M. Heer  
P. Frings-Meuthen  
R. Gerzer  
J. Meck  
R. Cromwell  
J. McPhee  
O. Angerer  
P. Gräf  
C. Mukai

Short Description of Scope of Study

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.

Methodology:
(Email works, workshops, stand alone conferences, interim publications, etc.)
Exchange relevant existing pre-work by various agencies/entities. Further discussion by email. 2-3 dedicated study group meetings, tentatively one for general bed rest condition discussion, one for standard measurement discussion, possibly a final one to conclude on the final consensus for the standards.

Time Line: Work to be performed in 2009 and 2010, with meetings once every half year as required.
(Cannot exceed three years)

Final Product (Report, Publication, etc.): A report describing internationally agreed standard conditions and standard measurements for space related bed rest studies. Annex to this, a “requirements checklist” to evaluate a given bed rest study against the internationally agreed standards. Publication foreseen in Acta Astronautica.

Target Community: IAA, space agencies, anyone in the space life science community who intends to perform bed rest studies.

Support Needed: Possibly space on program at IAA-sponsored scientific conferences; meeting room at such IAA conferences;

Potential Sponsors: IAA; involved space agencies.

To be returned to the IAA Secretary General Paris by fax: 33 1 47 23 82 16 or by email: sgeneral@iaamail.org

Date:
(No Signature required if document authenticated).