Space for Global Health: Intergovernmental process

Space4Health Webinar

UNISPACE I 1968

• V Thematic Session. Biology and Medicine (B/M): (a) B/M played a leading role in cosmic research (part. manned cosmic flight); (b) the results of cosmic research and of the general development of cosmic science produced a considerable influence on the progress of B/M as disciplinary sciences, as well as on their general practical aspects.

UNISPACE II

1982

- Space environment (micro-gravity, cosmic spectrum of radiations, near-vacuum, etc) represented a new and powerful research environment for biology and medicine.
- GA Res 40/162 of 1985: STSC to start its consideration of the agenda item on life sciences, including space medicine.

UNISPACE III

1999

- "The Space Millennium: Vienna Declaration on Space and Human Development"
- Action should be taken to improve public health services by expanding and coordinating space-based services for telemedicine and for controlling infectious diseases.

UNISPACE III follow up

COPUOS Action Team on Public Health (action team 6) officially created in 2001

2001

- Action Team on Public Health (action team 6)
- Final report A/AC.105/C.1/L.305 (2011)

2012

- Action team 6 follow-up initiative
- Series of workshops with the support of UNOOSA

2014

• STSC focused expert group on space and global health

2016

- 7 thematic priorities (TP) of UNISPACE+50
- TP5: Strengthened space cooperation for global health

2017

• UN/WHO/Switzerland Conference on Strengthening Space Cooperation for Global Health

2018

- STSC agenda item on Space and global health
- STSC Working Group on Space and Global Health

Domains

- Telemedicine and tele-health
- Tele-epidemiology and environmental health
- Space life sciences
- Disaster and health emergency management

Technologies

- Remote sensing
- Telecommunications
- GNSS/GIS
- Space technology development

For more details, see A/AC.105/C.1/2015/CRP.29, Appendix

SPACE AND GLOBAL HEALTH Individual health Individual and Communities Population Health Key HEALTH Medical practice Health services Medical Research Prevention and control of Global Health Security infectious and chronic diseases activities Kev Tele-Medicine Tele-Health **Health Sciences** Tele-epidemiology Disaster Management Space Activities Specialist Professional training · Knowledge Data dissemination through Flexible and deployable Tele-communications · Second opinion · Community health centres of expertise transfer capacities · Remote monitoring · Water levels & water borne worker training Strategic planning, · Community health coordination and · Tele-diagnostic diseases Tele-consultation education · Emergency communication communication among · Peer to peer Tele-education for outbreak/pandemic relief workers: · Tele-Robotic · Peer-to-peer training management coordination sites: experts; individuals · Routing Medical Detailed site information Contextual information · Geographic occurrences of Space Systems & Global Navigation Emergencies on site diseases · Response worker Satellite Activities · Health services · Location of sources of location coordination infection/pollution optimization Tracking animals as disease sentinels GIS Tracking disease and risk Disaster mapping (before Earth and Atmosphere Remote sensing of the factors and after) · Vector-borne diseases · Planning and response · Emergency tele-(malaria) · Air-born disease, including epidemiology dust, air pollution (ex: Asthma) · Waterborne diseases (ex: Cholera) · Food security · Knowledge of Science the human body Human Space Flight (ex: aging) Infection prevention Development Technology · Digital · Point of care Applications medicine

STSC Working Group on Space and Global Health

- Chair: Antoine Geissbühler (Switzerland). Multi-year workplan: 2019-2022.
- 2019 Agreement on methods of work and workplan. Development of a questionnaire.
- 2020 Nominations of national points of contact received
 - Review of contributions received in response to the questionnaire
 - The process enabled constructive discussions at the national level btw. space / health sectors.
 - Collected information to be organized with a view to establishing a globally accessible platform to enhance the sharing of information, best practices, tools and capacity-building resources in the area of space and global health.
 - Wikiversity: Development of free and open educational resources on space and global health [with support from the University of Koblenz-Landau, Germany].
 - UNOOSA to send a letter to WHO to inform it of the work of the Working Group; to continue to invite responses to questionnaire/nomination of points of contact.
 - Public health and medical experts be included in delegations to STSC.
 - WG to prepare recommendations as to the role and structure of the globally accessible platform.
- June 2020: Virtual meeting of the WG on Space and Global Health to discuss lessons learned form the COVID-19 pandemic that could be useful for the work of the WG

THANK YOU