Space Medicine and Life Sciences

Co-Leads

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The Space Generation Advisory Council is a global non-governmental, non-profit organisation and network which aims to represent university students and young space professionals to the United Nations, space agencies, industry, and academia.
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- SGAC SGF 2.0 Working Group 7
  Space for Global Health
- Working Group ➔ Agenda for discussion
- Working Group ➔ SGAC Report UNISPACE+50
- SGAC SMLS Project Group
WORKING GROUP 7: SPACE FOR GLOBAL HEALTH

10 members
7 nationalities
MDT
Space law, medicine, policy, engineering, public health, WHO, UN, ESA, Concordia, OeWF

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Agenda

- SGAC SGF 2.0 Working Group 7 - Space for Global Health
- Working Group → Agenda for discussion
- Working Group → SGAC Report UNISPACE+50
- SGAC SMLS Project Group
How can space applications be implemented to optimise global health? → UNOOSA

**Recognise:**
- What are the desirable components of a **global health alert system**?

**Report:**
- How do we overcome the ‘**last mile problem**’ to enhance individual and population health?

**Respond:**
- How can **space medical spin-offs** be **efficiently translated** to optimise global healthcare?
What are the desirable components of a **global health alert system**?

- **Global health alert system** – captures information from different sources to predict the risk and trigger a response to protect individual and population health.
Recognise:

• What are the desirable components of a **global health alert system**?

  • The Working Group identified a need for a much **closer coordination among all the stakeholders in space and global health**.

  • It is recommended to develop a **global virtual platform pooling and granting access to existing space-derived data** pertinent to tackling global health issues.

  • To **facilitate individual access to such data**, it is also recommended to work towards recognizing digital interconnectivity as a human right.
How do we overcome the ‘last mile problem’ to enhance individual and population health?
How do we overcome the ‘last mile problem’ to enhance individual and population health?

- The current trend indicates the realization of space-based connectivity to every individual within the near future.

- It is recommended that the UN builds on this capacity to accomplish the efficient use of this platform.

- Furthermore, the solution to the last mile problem, within the context of global health, needs to facilitate global interconnectivity and accessibility to bio-surveillance data via social media using space technology.
How can space medical spin-offs be efficiently translated to provide solutions to optimise global healthcare?
• In terms of dealing with global health, it is recommended that the UN collaborates with the WHO to meet SDGs for human health through space medicine research outputs.

• Prioritize space research initiatives that can be explicitly translated to terrestrial health benefits.

• Encourage nations to include spin-off potential of space research as a criterion in funding schemes.
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Agenda

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Recommendations UNISPACE+50

→ CRP

• In recognition of the outcomes of SGF in 1999, the Working Group concluded that the establishment of an International Institute for Space Medicine has an excellent potential to utilize space for advancement of human health.

• The young generation might contribute to this effort within the working agenda of Space Generation Advisory Council.

• On the occasion of UNISPACE+50, SGAC will consider establishing a permanent project group on this topic.
Future

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SGAC SGF 2.0 Working Group
7 Space for Global Health

Working Group → Agenda for discussion

Working Group → SGAC Report UNISPACE+50

SGAC SMLS Project Group
SGAC SMLS ➔ Objectives

• Global interdisciplinary platform of SMLS young professionals
• **Collaborate with international stakeholders**
• Focus on space applications for global health, to meet the SDGs
• Standardised evidence-based space medical guidelines

**Please see our website:**
https://spacegeneration.org/projects/smls
SGAC SMLS ➔ collaboration with this WG

• Join the conversation as young professionals:
  • Learn more about the working group objectives
  • Questionnaire review and dissemination
  • Integrate the 5 year goals of this group into our objectives
  • Facilitate outreach and workshops to young professionals
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We aim to provide an international, intercultural, and interdisciplinary platform for young professionals with an interest in space application for sustainable global development.

https://spacegeneration.org/projects/smls

Thank you for listening. Any questions?
Key references

• SGAC SGF 2.0 report: https://spacegeneration.org/sgf2/final-report
• UNOOSA
• WHO: http://www.who.int/environmental_health_emergencies/en/
• ESA: http://www.esa.int/Our_Activities/Preparing_for_the_Future/Space_for_Earth/Space_for_health