



SCAR Sub-Group

JEGHBM

SG / SC

LS

Person  
Responsible:

Dr. Anne Hicks

## SCAR Delegates Report 2022

# Joint Expert Group on Human Biology and Medicine 2020-2022 Report

## Summary

### Report Author(s)

Anne Hicks (UK), Giichiro Ohno (Japan), Nathalie Pattyn (Belgium)

### Summary of activities from 2020-2022

#### Activities/achievements

1. Update of the JEGHBM-EG webpage on the SCAR website, with general access for membership and select access for licensed clinical providers.
2. JEGHBM activity was dominated addressing the COVID 19 pandemic both for National Antarctic Programs and international communities. Report available to membership of JEGHBM members and affiliated groups on JEGHBM webpages and COMNAP website members area.
3. SCAR 2022 special program addressing medicine in extreme environments from Antarctica to Outer Space. Antarctic expeditioners and Spaceflight – Lessons learned in health and medicine off the grid. Co-convenors Marc Shepanek and Nathalie Pattyn. Presentations included: medicine, behavioral medicine and health, extended reality technology, analog definition, oral microbiome and inflammatory markers.

#### Upcoming activities:

1. Updated white paper Advice in regards to COVID-19: Prevention of Intercontinental spread and response in suspected or confirmed cases.
2. White paper on Monkeypox
3. White paper addressing Avian Flu

#### Key challenges faced: APT IQ NOW

A Avoid bringing COVID 19 to Antarctica

P Prevent the transmission of COVID 19 if it is transported to Antarctica.

T Treat COVID 19 in Antarctica with most current information possible.

I Isolation processes and procedures, including transport defined.

Q Quarantine as necessary.

N National program cooperative preparations facilitated in advance.

O Optimize communication between national programs clinical resources.

W Work-up continuously updated guidance for the International Antarctic community to address challenges from COVID 19.

**Summary Budget 2020 to 2022**

	2020 - 2022	2022-2023	2023 - 2024	Additional
	Spent	Request	Request	Request
(US\$)	(1,200 carry over) \$ 2,700 to BEPSI and IMPACT \$2,500 to be returned to LS SCAR	\$2,000 *	\$2,000	NA

Note: JEGHBM members are in dialogue with their COMNAP operational partners to support decisions with respect to COVID-19 and ensuring that science activities are disturbed as little as possible within the significant considerations of COVID related challenges. JEGHBM will be in communication with ATCM.

\*JEGHBM respectfully is returning \$2,500 in funds that were not used in the 2020-2022 time frame.

## Progress to date

### Sub-group Outcomes Summary

Sub-group	Activity/Outcome/Benefit/Achievement
JEGHBM	Advice in regards to COVID-19: Prevention of Intercontinental spread and Response in suspected or confirmed cases. V5 July 2020
JEGHBM - COMNAP	COVID-19 updated guidance V 6 September 2020
JEGHBM - COMNAP	COVID-19 vaccination guidance March 2021
JEGHBM - COMNAP	COVID-19 advice update March 2022

### Sub-group Cash Flow

(From previous Delegates meeting to date)

Sub-group	Allocation 2020/2022	Amount spent		
		2020	2021	2022
Carry over pre 2020	1,200			
Allocation	4,000			
JEGHBM donation BEPSII and Impact			2,700	
Funds to be returned to SCAR for re-allocation				2,500
Residual balance				

## Future plans

The EG comprises a large number of people from a variety of clinical and research backgrounds in human biology and medicine. Research papers are accepted outside of the immediate membership assuming they meet the criteria set for quality and relevance, so that the audience of JEGHBM research is broader than would be immediately apparent.

### Interest and potential JEGHBM

JEGHBM continuously works to provide the best possible insight on human biology and medicine to national programs and the international community on health and medicine, working within the constraints of national programs and honoring the individual patient's right to privacy. The group facilitates work between clinicians between national programs and additional resources as appropriate. In addition to addressing the current COVID pandemic, JEGHBM will develop a database of lessons learned for potential future challenges including Monkeypox, Avian Flu and any other challenges identified by the World Health Organization (WHO).

JEGHBM requests an extension of funds to update its website, provide for potential data analysis from international partners from the current COVID pandemic, and to facilitate tele-present meetings of current clinicians and young clinicians and researchers in human biology and medicine.

**Planned activities in 2022 to 2024**

Sub-group	Planned activity
JEGHBM	Update to COVID recommendations paper in light of removal of quarantining measures
JEGHBM	Tele-present COVID workshop - Lessons Learned
JEGHBM	Website update
JEGHBM	Database development (COVID or pandemic or general clinical resources available)

**Planned use of funds for 2022 to 2024**

Year (YYYY)	Purpose/Activity	Amount (in USD)	Contact Name	Contact Email
2023	Website update	\$250		
2023	Covid, Monkey Pox, Avian Flu database	\$1,750		
2024	Website update	\$250		
2024	Young clinicians and investigators support for SCAR	\$1,750		
<b>Total</b>		<b>\$4,000</b>		

**Any additional detail on funds usage and desired results/outcomes**

**Membership (update in process)****Leadership**

Role	First Name	Last Name	Affiliation	Country	Email
Chief Officer	Giichiro	Ohno	NIPR	Japan	oonog@nifty.com
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Secretary					
Executive committee	Marc	Shepanek	NASA	USA	Marc.A.Shepanek@nasa.gov
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ex Chief Officer	Anne	Hicks	BASMU	UK	Annehicks1@nhs.net

*Please identify early-career researchers with \* in first column*

## Other members

JEGHBM currently has 48 members, from 24 countries.

First Name	Last Name	Affiliation	Country	Email
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JEGHBM: 2020-2022 Report, cont.

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*Please identify early-career researchers with \* in first column*

## Additional information (optional)

### Notable Papers

Van Fossen J, Olenick J, Ayton J, Chang C, Kozlowski S (2021) Relationships between personality and social functioning, attitudes towards the team and mission, and well-being in an ICE environment Acta Astronautica Vol 189 Dec 2021 pp658-670

Sletten, TL, Sullivan, JP, Arendt, J, et al. The role of circadian phase in sleep and performance during Antarctic winter expeditions J Pineal Res. 2022; e12817. doi:10.1111/jpi.12817

### Direct support from outside organisations received for your activities

N/A

### Major collaborations your Science Group has with other SCAR groups and with organisations/groups beyond SCAR

*(Numbered list of substantive collaborations)*

#### Within SCAR

1. XXX

#### Outside SCAR

1. National Aeronautics and Space Administration
2. European Space Agency
3. Australian Space Agency
4. International Association of Antarctica Tour Operators (IAATO)
5. Association of Arctic Expedition Cruise Operators (AECO)
6. Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)
7. Association of Polar Early Career Scientists (APECS)

### Outreach, communication and capacity-building activities

1. Selected talks and public outreach activities from the EG committee: JEGHBM efforts to support NAP and international partners dealing with COVID 19

## SCAR fellowship reviewers

First Name	Last Name	Email	Principal Expertise
Marc	Shepanek	Marc.A.Shepanek@nasa.gov	Psych, space exploration, analogs