



International
Science Council

SCAR Sub-Group

JEGHBM

EG

LS

Person
Responsible:

Dr. Anne Hicks

SCAR Delegates Report 2020

Joint Expert Group on Human Biology and Medicine 2018-2020 Report

Summary

Report Author(s)

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Summary of activities from 2018-20

Activities/achievements:

1. POLAR 2019 Open Science Conference, August 2019, Plovdiv, Bulgaria. The Joint Expert Group on Human Biology and Medicine (JEGHBM) attended by members from 21 countries, met to update information and discuss best methods to assess and collaborate to preserve human health and well-being within the context of International Antarctic Treaty, specifically in terms of expeditioner health, gathering of critical data on medical support in the extreme environment of Antarctica, health and medical resources, best clinical practices.
2. Update of the JEGHBM-EG webpage on the SCAR website, with general access for membership and select access for licensed clinical providers.
3. Mobilization of CONMAP/SCAR International Clinical community to address the global COVID 19 Pandemic. Report available to membership of JEGHBM members and affiliated groups on JEGHBM webpages and COMNAP website members area.
4. SCAR 2020 special program addressing extreme environments from Antarctica to Outer Space. **Citation of sessions planned or currently still on the books for remote activity.**

Upcoming activities:

1. White paper Advice in regards to COVID-19: Prevention of Intercontinental spread and Response in suspected or confirmed cases.
2. Workshops (telepresent) to address international challenges of COVID 19. (Season update meeting Date in February 2021 TBC)
3. Update database hosted in the JEGHBM website.

Key challenges faced:

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.

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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 2019 to 2022

	2019 - 2020	2020	2021 - 2022	Additional ...
	Spent	Allocated	Request	Request
(US\$)	\$1,461.29	\$2,000 *	\$4,000	Nil

Note: JEGHBM members are in dialogue with their COMNAP operational partners to support decision making round keeping COVID-19 off the continent of Antarctica and ensure science activities are disturbed as little as possible within the significant constraints of a COVID world.

*We request transferring the 2020 balance to fund additional analysis for SCAR/COMNAP to address COVID 19 and any additional, unanticipated clinical challenges, as well as support young investigators and clinicians to attend virtual workshops and do appropriate research and technology development to address challenges of human biology and medicine in Antarctica.

Progress to date

Sub-group Outcomes Summary

(Summarize the above and in each case provide your sub-group name in left hand column to assist Science Group COs in compiling their reports)

Sub-group	Activity/Outcome/Benefit/Achievement
JEGHBM	Ad hoc Production of advisory paper to National programs for prevention of transmission of COVID 19 to Antarctica
JEGHBM - COMNAP	Contribution towards 30 th June paper COMNAP COVID 19 outbreak management protocol
JEGHBM	Ad Hoc meeting with COMNAP focusing on preparations for Antarctic season 20-21in context of COVID -19 March 19, 2020

Sub-group Cash Flow

(From previous Delegates meeting to date)

Sub-group	Allocation	Amount spent		
		2018	2019	2020
JEGHBM	\$2000		£106.81	\$1375.00
Residual balance				\$484.87

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.

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 2020 to 2022

Sub-group	Planned activity
	COVID recommendations paper
	COVID Update
	Tele-present COVD workshop - Lessons Learned
	Website update
	Database development (COVID or pandemic or general clinical resources available)
	Opinion paper

Planned use of funds for 2020 to 2022

Year (YYYY)	Purpose/Activity	Amount (in USD)	Contact Name	Contact Email
2021	Website update	\$1,250		
2021	Covid database	\$1,250		
2022	Telepresent workshop	\$500		
2022	Young clinicians and investigators support for SCAR	\$1,000		
Total		\$4,000		

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

Role	First Name	Last Name	Affiliation	Country	Email		
Chief Officer	Anne	Hicks	BASMU	UK	annehicks1@nhs.net		
Deputy Chief Officer	Nathalie	Pattyn	Royal Military Academy	Belgium	nathalie.pattyn@gmail.com		
Secretary	Paul	LaForet	IPEV TAAF	France	paul.laforet@taaf.re		
Executive committee	Marc	Shepanek	NASA	USA	Marc.A.Shepanek@nasa.gov		
Executive committee	Jeff	Ayton	Australian Antarctic Division	Australia	Jeff.Ayton@aad.gov.au		
Executive committee	Giichiro	Ohno	NIPR	Japan	oonog@nifty.com		

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
Fernanda	Millicay	Ministerio de Relaciones Exteriores y Culto de la República Argentina	Argentina	myq@mrecic.gov.ar
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Jon	Fentress	National Science Foundation, NSF	USA	jfentres@nsf.gov

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Kelly	Falkner	National Science Foundation, NSF	USA	kfalkner@nsf.gov
Jennifer	Ngo	European Space Agency, ESA		Jennifer.Ngo-Anh@esa.int
Michelle	Rogan-Finnemore	COMNAP	NZ	michelle.finnemore@cantbury.ac.nz
Affiliated				
Kimberly	Norris	University of Tasmania	Australia	Kimberley.Norris@utas.edu.au
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Peter	Suedfeld		USA	psuedfeld@psych.ubc.ca

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

Additional information (optional)

Please add any more detail here that you wish, on your subgroup activities, papers published, etc.

Notable Papers

(Five to ten most notable papers – see the example below, which includes a brief statement (shaded) indicating the link to the group)

Direct support from outside organisations received for your activities

(Numbered list with values indicated if direct cash support. Please restrict in-kind support to substantive in-kind support only)

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
2. XXX
3. 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

Brief highlights of any activities undertaken since the SCAR Delegates meeting in 2018.

1. Selected talks and public outreach activities from the AG committee:

SCAR fellowship reviewers

Please list one or more people (name and email address) from your group who would be willing to serve as reviewers for the next few years, along with 1-3 keywords on their principal expertise.

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