

INTRODUCTION







PROGRAMME

09:30 Registration

10:00 SCRiMM: context and objectives

10:30 Content of the call: timeline and themes

11:00 The rules of the SCRiMM programme

11:15 Evaluation procedure

11:30 Q&A

12:00 End of info moment







Meet the SCRiMM team

RHID Royal Higher Institute for Defence - Scientific & Technological Research of Defence & **QAMH** Queen Astrid Military Hospital



Lucie Geurts
Research Manager Human
Factors and Medicine





Col. Damien Van Tiggelen Innovation Officer Medical Component









SCRiMM Context





A gradual increase of the R&T contribution for security and defence to reach 2% of defence spending in 2030.

Strengthening the Scientific, Technological and Industrial Potential



Policy Declaration
Minister of Defence
31 Oct 2022

"... knowledge centres in Belgium, companies in general and Belgian SME's,"

"....will flow back to society in the form of knowledge, technology and employment..."



Belgian Defence

'Research, Technology & Innovation

Vision 2030'

5 boosters for Defence Research, Technology and Innovation







Belgian Defence 'Research, Technology & Innovation Vision 2030'

From an internal scientific and technological research programme to a research, technology and innovation policy within a national and European context.



Structurally reinforce the Belgian Defence R&T-capabilities

(Royal Military Academy,
Defence laboratories,
Military Hospital Queen Astrid)



Develop a national broader knowledge and technological base



Stimulate and support international collaborative research and development (EDA, EDF, ESA, NATO)



Facilitate shortcyclic innovation projects for Defence



Create **ecosystems**for research,
development and
innovation







SCRiMM Context

- In line with Belgian Defence's aim to reinforce the technological and knowledge base at national level, the Royal Higher Institute for Defence wishes to enhance research collaborations with the different universities associated with university hospitals in the field of military medicine.
- The aim is to create knowledge needed for Belgian Defence, to compensate for the lack of personnel, materials and infrastructure and because of an insufficient flow of patients.
- Concept: Finance a 4–years PhD in co-promotion between a civilian university and Belgian Defence.







CONTENT OF THE CALL: TIMELINE & THEMES







TIMELINE

	DATE	AT / VIA
Information session	30 April 2025 (10h – 12h)	RMA, building I, meeting room Symposium
Expression of Interest	15 May 2025	Mail
Deadline Full proposals	15 June 2025 (14h00)	Mail
Panel evaluation , incl. interviews with the applicants	7-8 July 2025	RHID
Selection proposal formulated by the scientific committee of the RHID	11 September 2025	NA
Final selection of proposals by the board of directors of the RHID	25 September 2025	NA
Communication of results to applicants	30 September 2025	Mail
Signature contracts	14 November 2025	Online E-sign platform







THEMES

- ☐ Theme 1: Military physical recruitment and readiness standards
- ☐ Theme 2: Eradication of Staphylococcal Skin Colonisation with Phages







THEME 1:

Military physical recruitment and readiness standards









Agenda

- Introduction
- SCRiMM: Why?
- 3 Pilot 1: Physical/Medical selection criteria
- 4 Pilot 2: Eradicate MRSA & MSSA colonization on the skin
- Conclusion



SCRIMM

Structures

Defence Funded Research program : MHQA projects

Defence

2 DEFRA Consortia

Structural Collaborative Research in Military Medicine

Defence Partners

Partners



SCRiMM: Why?

Importance of the Civilian-Military collaboration

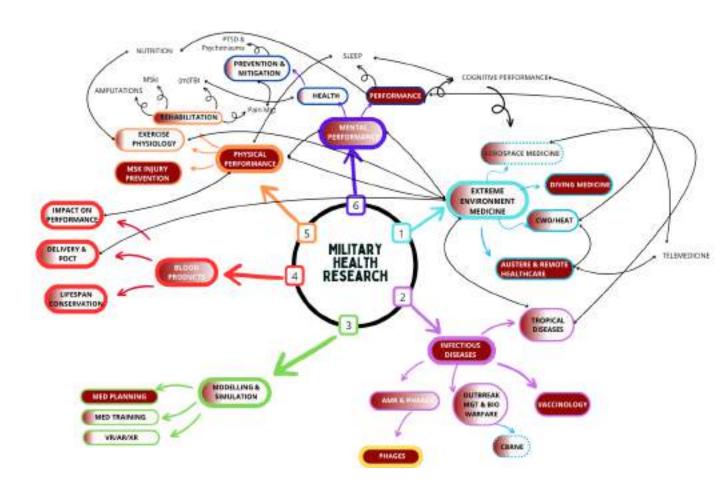
Research questions based on eg:

- Insufficient access to patients
- Insufficient access to equipment
- Insufficient access to infrastructure
- Insufficient knowlegde
- Insufficient time & HR resources
- Specific needs



Our own research focus

- Extreme Environment Medicine
- Infectious Diseases
- Modeling & Simulation
- **Blood products**
- Physical Performance
- Mental Performance







Physical Medical Selection Criteria

Reliable - Relevant - Efficient - Effective

Context

Recruiting is important but recruiting the right person for the right job is paramount We also select medically our recruits

BUT: are the criteria still valid, reliable, ... do we select on the right criteria?

Occupations change, people change, equipment changes, missions change, adversaries change, tactics change...







Aim

This project aims to optimize Belgium's Defence recruitment process by integrating advanced technologies, such as sensor data and benchmarking the NATO physical employment standards (PES). By enhancing the reliability and relevance of physical selection criteria, the project aims to smoothen medical selection and impacting injury rates, ensuring that (only the most suitable) recruits are better prepared for the physical demands of military service. This will lead to a more efficient and effective selection process, ensuring that the PES are adapted for Defence medical selection.

Potential WP

- **Systematic Review of Military Recruitment Standards**
- **Analysis of International Practices Criteria, Attrition, and Injury Rates**
- **Sensor-Based Physical Performance Profiling**
- **Evaluating the Validity and Reliability of the Current Physical & Musculoskeletal Recruitment Tests & assessments**
- Refining Selection Criteria Based on International Insights and Scientific Evidence + Integrating Innovative **Technologies**
- **Task-Specific Physical Demand Characterization**
- **Injury Risk Stratification Framework**
- **Pre-Selection Training Protocol Design**
- **Cost-Benefit Analysis of Process Reforms**
- **Policy Integration and NATO Collaboration**





References:

- NATO STO documents
- BEL military Regulations (J11 and J20 + annexes)
- Mil Med literature



Questions

THEME 2:

Eradication of Staphylococcal Skin Colonisation with Phages







QAMH BRUSSELS INFECTIOUS DISEASES

PROF DR PATRICK SOENTJENS

MED COL MD, INTERNAL MED, INFECT DIS, PHD

30 April 2025



SCRIMM Decolonisation ESCAPES

ESCAPES TRIALS

ERADICATION OF STAPHYLOCOCCAL SKIN COLONIZATION APPLYING PHAGE EMULSION AND SPRAY.

TRIAL

PILOT

MODEL FOR DECOLONIZATION OF WAR WOUNDS IN FUTURE SETTINGS



Context

War infections

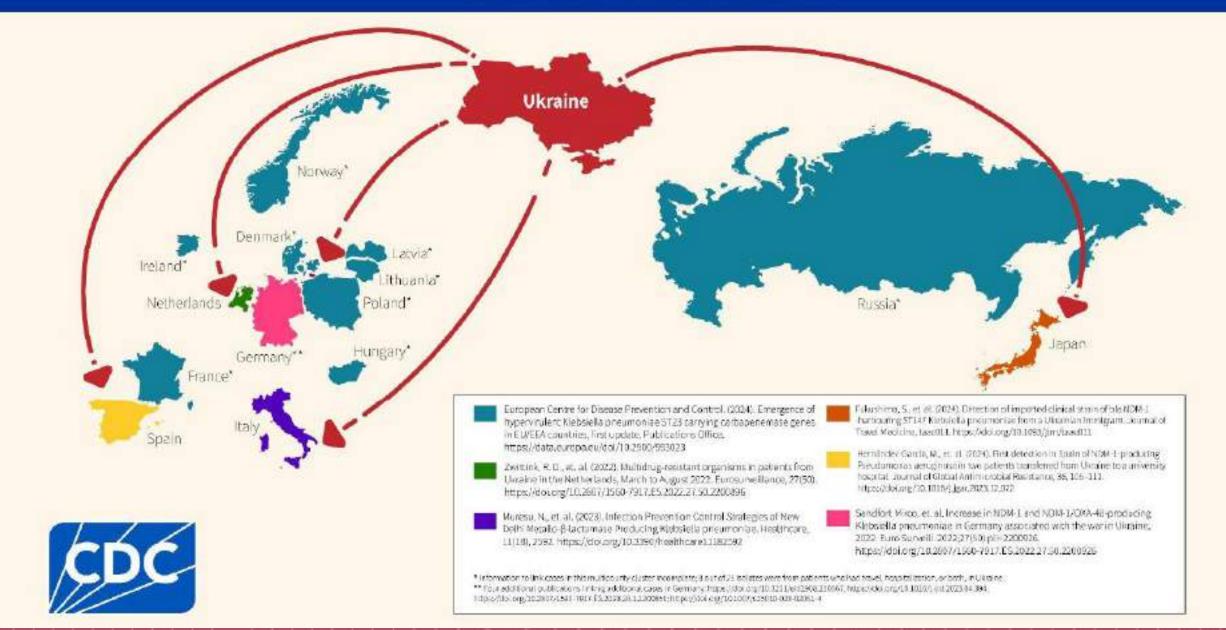
AMR

Phage Therapy





Increased reports of AMR in many countries receiving Ukrainian refugees and war-wounded patients



















Antimicrobial resistance in bacterial isolates from nine Ukrainian war casualties: a retrospective bicentric observational study



D.I. Costescu Strachinaru, F. Lestin-Bernstein, A. Stoefs, Y. Van Der Beken, F. T'sas, M. Beynsberger, T. Rose, P.M. François, S. Schulz-Drost2, L. Briedigkeit, N. Pfennigwerth, P. Vanbrabant, H. Rodriguez-Villalobos, P. Soentjens, A. Verroken.

Queen Astrid Military Hospital - Brussels (Belgium), Helios Clinics of Schwerin - University Campus of Medical School Hamburg - Hamburg (Germany), Nationales Referenzzentrum für Gram-negative Krankenhauserreger - Bochum(Germany), Cliniques Universitaires Saint-Luc, Université Catholique de Louvain - Brussels (Belgium), Institut of Tropical Medicine - Antwerp (Belgium).



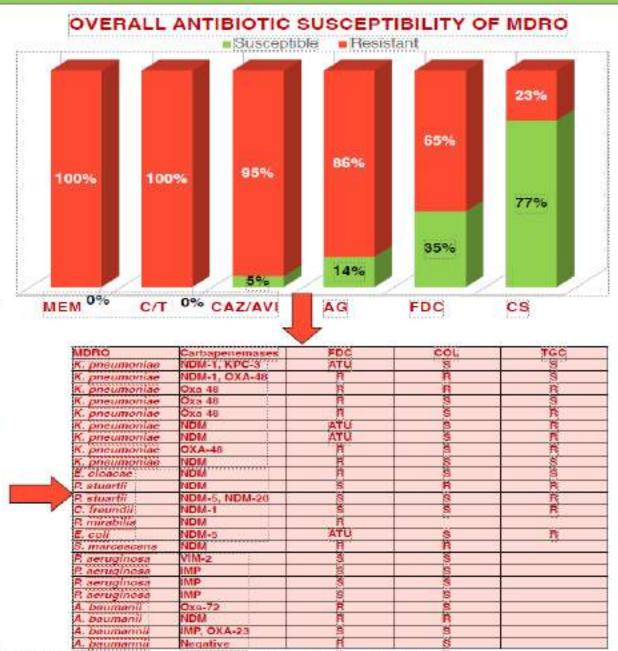
Results

Demographic characteristics of patients (N=9)

War-related traumas
(extensive burn wounds and fracture-related osteomyelitis).
Initially hospitalised in Ukrainian hospitals
Subsequently transferred to Belgium or Germany.

Median age at admission in Beiglum / Germany	38 years
Gender	8 M / 1 F
Median hospitalisation in Ukraine	42 days
Mean MDROs per patient at arrival In Belgium / Germany	2,6

MDROs Isolated within 48 hours following transfer to Belgium or Germany (n=23) | Networks in the second of second or second o



MEM: Melopenent, C/T. Cettolozan-Tazobactam, CAZ/A/T. Cettazidin: Avbactam, AG: Ammogrycosides, FDC: Cetidencol, CS: Colistin, TGC: Tigecyclin, ATU: area of technical uncertainty S: Susceptible, R: Resistant; Magicrakos et of 1 do: 10.1111/j.1829-9621.2011.03170 x.

Human application of phages in 100 consecutive cases coordinated by QAMH

nature microbiology



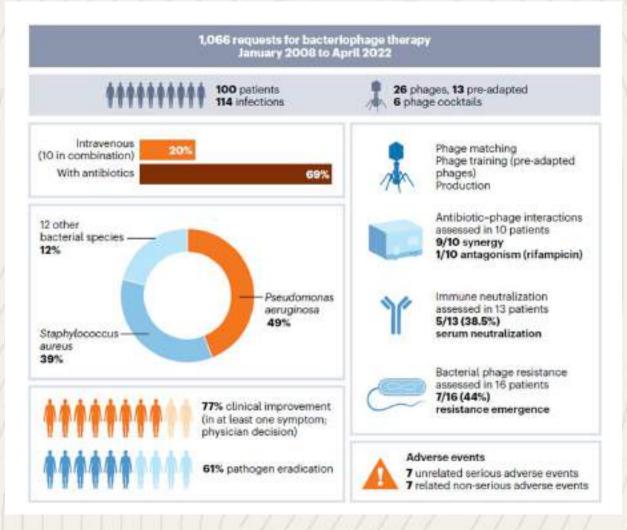
Article

https://doi.org/10.1038/s41564-024-01705-x

Personalized bacteriophage therapy outcomes for 100 consecutive cases: a multicentre, multinational, retrospective observational study



Human application of phages in 100 consecutive cases coordinated by QAMH





Aim

This project aims to evaluate if the ISP phage, a phage with antistaphycoccal activity, could be used safely and effectively in the eradication of staphyloccal colonization in humans.

Potential WPs

1 ISP Phage compounding: body spray and nose emulsion

Phase 1 study in healthy volunteers

Phase 2 study in MSSA/MRSA colonized participants



Eradication of Staphylococcal Skin Colonisation with Phage Therapy

ISP Phage compounding:

Body spray Nose emulsion

- validate magistral preparations for both products
- stability testing

Eradication of Staphylococcal Skin Colonisation with Phage Therapy

2

Phase 1 study in healthy volunteers

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N = 20?
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- possible intervention groups: ISP and ISP + SOC
- safety evaluation

Eradication of Staphylococcal Skin Colonisation with Phage Therapy

3

Phase 2 study in MSSA/MRSA colonized participants

N = 60-80?

- possible intervention groups:
- ISP and ISP + SOC and placebo
- cross-over design
- safety
- efficacy
- compliance rates, ease of use, acceptability of use





Questions

THE RULES OF THE SCRIMM PROGRAMME







Who can participate? Eligibility criteria for partners.

The call is open to **Belgian** Universities and University Hospitals

! Foreign partners: only as non-funded partners. They must be registered in a country of the EU or of the EFTA or in a NATO member country.







RESEARCH ETHICS

It is the responsibility of the applicant to consult the relevant Ethical Board for their organisation before submitting a proposal.

- Full proposal contains an ethics self-assessment.
- The Ethical Advisory Board of the RHID will assess this information and can advise the partnership how to deal with ethical aspects of the proposal.







BUDGET RULES

	Public Research Institute and Private non-profit research centre
Partner budget FINANCED BY DEFENCE	100% eligible costs







BUDGET RULES

Category of expenditure	Rules
STAFF	 Preferably under labour contract ! Non-employee staff costs (management company, free-lance, interim staff) Maximum amounts for persons to be hired for the project NO tax-free scholarships!
GENERAL OPERATING COSTS	 For the coordinator: max 15% of staff costs For other partners: max 10% of staff costs
SPECIFIC OPERATING COSTS	Described in the proposalJustified by invoices during project
OVERHEAD	10% of total staff and operating costs







BUDGET RULES

Category of expenditure	Rules
EQUIPMENT	Described in the proposalJustified by invoices during project
SUBCONTRACTING	 Max 25% of partner's budget ! Subcontractors must be registered in Belgium ! If applicable, obtain security clearance







SCRIMM WEBSITE

SCRiMM Website

Available documents:

- Information document, incl. submission & evaluation guidelines and budget rules *uploaded early May*
- FAQ uploaded early May
- Expression of interest one-pager template available
- Structure full proposals *uploaded early May*
- General conditions contract uploaded ASAP







SUBMISSION

- 1. Submission of an expression of interest:
- One-pager template

scrimm@mil.be

- 2. Submission full proposals:
- Full Proposal template (Word file)
- Gantt chart (Excel file)
- Cash or in-kind commitment letter non mandatory (Word file)







EVALUATION PROCEDURE FULL PROPOSALS

- ➤ Step 1 Scientific Experts Committee (SEC) evaluation, incl. interviews with the applicants (45 minutes per proposal)
 - → Funding scenario per theme
- > Step 2 Selection proposal formulated by Scientific Committee RHID
 - → Proposed funding scenario
- > Step 3 Final decision by Board of Directors RHID







AFTER SELECTION

- > Signature of contract (at least basic contract) in November 2025
- ightharpoonup First advance payment (40%) ightharpoonup follow invoicing instructions of the RHID
- > Selected projects start as from1st of March 2026
- Provide technical sheets with project description (for website)
- Kick-off meetings (after signature of Annex I to the contract) in the beginning of 2026







CONTRACTS

3 parts	Content	Who signs?
Basic contract	 Designates the contracting parties Contains the general obligations applicable to the project Defines the contract duration and budget 	Heads of the partners: directors, rectors
Annex I: technical specifications	 Operational implementation of the project Work description and planning Details on funding by expenditure category 	Persons in charge of the realisation of the project (principal investigators, "promotor")
Annex II: General conditions applicable to the contract	General provisions applicable to all contracts (incl. IPR rules)	Must not be signed – will be soon available on the SCRiMM website







CONTACT

For any questions

scrimm@mil.be





