Supplementary Information

Keywords used for searches

- blast injury
- blast protection
- landmine
- explosive injury
- landmine injury
- explosive remnants of war
- grenade injury
- bomb
- improvised explosive device
- blast armour

List of Funders

Funder	Country	Number of Awards
CDC	United States	3
National Agency for Research	France	2
UKRI	United Kingdom	5
DoD	United States	501
HRA	United States	1
NIH	United States	70
Saskatchewan Health Research Foundation	Canada	1
NASA	United States	1
NSF	United States	13
Canadian Institutes of Health Research	Canada	5
Center for Neuroscience and Regenerative Medicine	United States	31
Citizens United for Research in Epilepsy	United States	1
Danish Ministry of Higher Education and Science	Denmark	1
German Research Foundation	Germany	1
Japan Society for the Promotion of Science	Japan	67
National Natural Science Foundation of China	China	5
National Research Foundation	South Africa	1
Natural Sciences and Engineering Research Council	Canada	2
United States Food and Drug Administration	United States	1
VINNOVA	Sweden	2
United States Department of Health and Human Services	United States	1
United States Department of Veterans Affairs	United States	92
NIHR	United Kingdom	2
Dstl	United Kingdom	16
Total		827

Summary of Unavailable Funding Information

Funder	Country	Number of Awards
DoD	United States	28
National Research Foundation	South Africa	1
NIH	United States	1
United States Food and Drug Administration	United States	1

Definitions & Award Labels

Research

Our analysis considered only research awards related to blast injury science, and excluded (for example) purely implementation projects.

In order to keep our analysis as straightforward as possible, our definition of research was an award that involved 'the creation of new knowledge and/or the use of existing knowledge in a new and creative way so as to generate new concepts, methodologies and understandings.' This is a definition used by universities, for example https://www.westernsydney.edu.au/research/researchers/preparing_a_grant_application/dest_definition_of_research

Thus, to further clarify around the boundaries between research and implementation, any award that implements the findings of research was excluded. Any award that considered how best to assess and incorporate new approaches into a health system was classified as research. We are happy to respond to individual requests for clarity about our inclusion and exclusion criteria.

Type of Science Definitions

- Pre-clinical – molecular, in vitro, in vivo, immunology, drug discovery
- Phase 1-3 Clinical trials – includes RCTs, 'first-in-man' studies etc.
- Product Development – Phase IV, product roll out, pharmacovigilance
- Public Health – epidemiology, statistics, economics, social science, behavioural studies, population health, implementation research
- Cross-disciplinary – any project with significant components that encompass two of the above types of science e.g. pre-clinical research leading into a phase I trial

Award Labels

Blast injury health area categories:

- Brain Injury
- Cancer
- Ear Injury
- Eye Injury
- Haemorrhage
- Head Injury
- Infection
- Lung Injury
- Nerve Damage
- Orthopaedic Injury

- Other
- Poly-trauma
- Radiation Injury
- Skin Injury
- N/A

Notes on Health Area Categories

Cancer - relates to research investigating cancers resulting from resulting from blast radiation. This clarification has been added to the revised manuscript in the Methods section, see paragraph 6, page 4.

N/A – is where there was no particular health/injury area of focus of the award but the award was in the remit of human blast injuries.

Other – includes very specific health areas that are only covered by limited numbers of awards and are not the main health areas focused on in blast injury research. E.g. awards focussed on liver damage, kidney damage, penile injury.

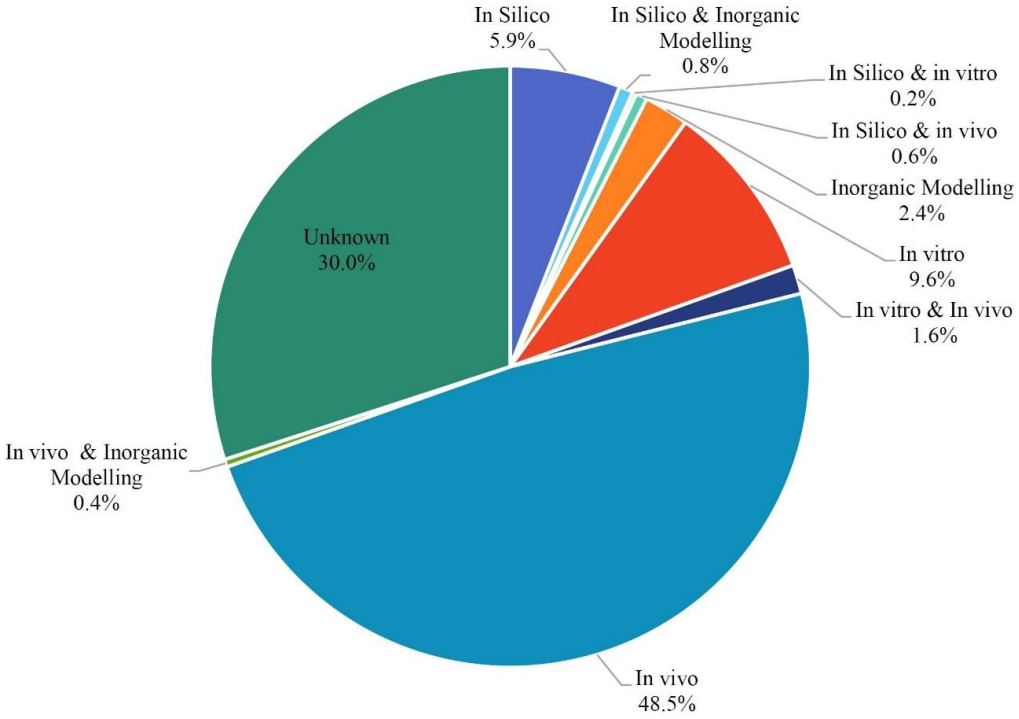

Figure A: Pre-clinical methodologies adopted in blast TBI research.

More on the RESIN study

The methods used in this study are similar to those used in other Research Investments in Global Health study (RESIN). For more information on the RESIN study, see the Clinical Informatics Research Unit website at https://www.the-ciru.com/resin