

Table 3. List of PANDEMIC PACT database variables and values with corresponding data format and data standards, and key notes.

N	Variable name	Data format	Data Standard	Values	Notes
1	PACTID	string	Non-standard, assigned internally	A combination of a letter character and numbers	
2	Grant in Scope	binary	Non-standard, assigned internally		
3	Grant Title Original	text	Non-standard		
4	Grant Title Eng	text	Non-standard		
5	Grant Number	text	Non-standard		As assigned by a funder
6	Grant Amount Original	string	Non-standard		
7	Grant Currency	string	ISO 4217 code		
8	Currency Exchange Rate USD	numeric	Non-standard		Calculated using API and code
9	Grant Amount Converted	numeric	Non-standard		
10	Grant Type	text	Non-standard		
11	Abstract Original	text	Non-standard		
12	Abstract English	text	Non-standard		
13	Lay Summary	text	Non-standard		
14	ODA funding used	binary	Non-standard, assigned internally		Official Development Assistance (ODA)
15	Grant Start Month	numeric	MM, ISO standard		
16	Grant Start Year	numeric	YYYY, ISO standard		
17	Grant End Month	numeric	MM, ISO standard		

18	Grant End Year	numeric	YYYY, ISO standard		
19	Publication Month of Award	numeric	MM, ISO standard		
20	Publication Year of Award	numeric	YYYY, ISO standard		
21	Grant Type	text	Non-standard	New Grant, Grant Extension	
22	Study Subject	Text, Boolean	MESH Terms	Animals, bacteria, human populations, disease vectors, viruses, environment, other, unspecified, not applicable	
23	Ethnicity	text, Boolean	Standard, UK Census	Asian, Black, White, Mixed, other, unspecified, not applicable	Optional field, populate if the grant is for research involving a specific ethnic group
24	Age Groups	Text, Boolean	MESH Terms modified	Adolescent, 13-17 yrs Adults, 18+ Children, 1-12 yrs, Infants, 1mth-1yr, Newborn (<1mth) Older adults, 65+ Unspecified, not applicable	Optional field, populate if the grant is for research involving a specific age group
25	Rurality	text, Boolean	MESH terms, modified	Rural population/setting, suburban population/setting, urban population/setting, other, unspecified, not applicable	Optional field, populate if the grant is for research on urban or rural populations or settings
26	Vulnerable Populations	Text, Boolean	MESH Terms, modified	Disabled persons, drug users, Internally Displaced and Migrants, Indigenous People, Sexual and gender minorities, Prisoners, Sex workers, Smokers, Women, Pregnant women, Individuals with multimorbidity, Minority communities unspecified, vulnerable populations unspecified, other, unspecified, not applicable	Optional field, populate if the grant is for research involving a specific vulnerable population group

27	Occupational Groups	Text, Boolean	MESH terms modified	Farmers, Emergency Responders, Military Personnel, Social workers, Caregivers, Health Personnel, Hospital personnel, Nurses and Nursing Staff, Physicians, Dentists and dental staff, Vets, Volunteers, other, unspecified, not applicable	Optional field, populate if the grant is for research involving a specific occupational group
28	Study Type	Text, Boolean	Non-standard	Clinical, Non-clinical, other, unspecified, not applicable	If clinical is selected, then there is an option to select a clinical trial phase and design and record this information in a new field. If non-clinical is selected, then there is an option to choose a report or literature review in a new field
29	Disease	numeric	Standard, SNOMED code	See the list of diseases. https://termbrowser.nhs.uk/	
30	Pathogen	numeric	Standard, SNOMED code	See the list of diseases. https://termbrowser.nhs.uk	
31	Funder	text	Standard, CrossRef Open Funder Registry	https://www.crossref.org/services/funder-registry/	
32	Funder Region	text	Standard, WHO region	https://en.wikipedia.org/wiki/List_of_WHO_regions	The region was assigned automatically based on the country of the funding organisation

					as listed in the global standard list
33	Funder Country	numeric	ISO 3166-1 numeric	https://www.crossref.org/services/funder-registry/	Country information was pulled from the CrossRef Open Funder Registry
34	Funder Acronym	text	Standard, CrossRef Open Funder Registry		Acronym was pulled from the CrossRef Open Funder Registry
35	Investigator Title	text	Non-standard		
36	Investigator First Name	text	Non-standard		
37	Investigator Last Name	text	Non-standard		
38	Investigator ORCID	string	Standard, ORCID ID number		Optional field. Researchers manually searched and entered the ORCID using the first and last name of the awardee.
39	ROR ID	string	Standard, ROR ID	https://ror.org/	Research Organisation Registry (ROR ID) for research institution
40	Institution Name	text	Standard, ROR list of research institutions	https://ror.org/	

41	Institution Country	text	Standard, ROR list of research institution s	https://ror.org/	
42	Institution Country ISO	numeric	ISO 3166- 1 numeric	https://www.iso.org/iso-3166-country-codes.html	
43	Research Institution Region	text	Standard, WHO region		The region was assigned by a data manager using information from the ROR list
43	Partner Organisation Name	text	Non- standard		Information on the partner organisation is added if available in the grant abstract
45	Research Location Country	text	Non- standard		Information on the location of research is added if available in the grant abstract. Otherwise, we used the country where the Research Institution is based
46	Research Location Country ISO	numeric	Standard, ISO 3166- 1 numeric code		
47	Research Location Region	text	Standard, WHO Region		Assigned based on the location of research is such

					information is available in the grant. Otherwise, we used the region where the Research Institution is based
48	Tags	Text, Boolean	Non-standard	Data Management and Data Sharing, Digital Health, Innovation, Gender	The tags were assigned by researcher who reviewed the grants
49	Research and Policy Roadmaps	Text, Boolean	Non-standard	100 Days Mission, WHO Surveillance, ESSENCE for Health	Mapping to selected roadmaps was done by researcher reviewing the grants
50	Primary Research Category	string	Non-standard	12 broad research categories, each has a list of subcategories	Researchers reviewed each grant and assigned a broad research category and subcategory. Multiple values permitted
51	Secondary Research Category	string	Non-standard	12 broad research categories, each has a list of subcategories	