

# VaxxPax - a dataset of vaccination ceasefires

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Dataset of ceasefires arranged to support vaccinations and similar public health campaigns in armed conflicts

- **Temporal Coverage:** 1985 - 2018
- **Spatial Coverage:** Global
- **Citation:** Russell, Wise, and Badanjak (2021). VaxxPax - vaccination ceasefires data.
- **Date published:** 2021-08-24

The description below is adapted from the *Breathing Space: Vaccination Ceasefires in Armed Conflict and the Implications for Covid-19* report, by Russel, Wise, and Badanjak.

This dataset contains information on cases of vaccination ceasefires from across the world and is the only such resource that has global coverage, extends across an extensive time span (1985 - 2018), and is publicly available. Our data consist of cases where a cessation of hostilities was agreed during a conflict for the purpose of, in part or in full, conducting a vaccination campaign or similarly addressing a public health need. In addition to vaccination campaigns, examples of activities related to public-health needs that cessation of hostilities have facilitated, or have attempted to facilitate, include:

- the provision of medical supplies and/or services to address the outbreak of diseases, such as cholera.
- the provision of medical supplies and/or services to support the ongoing functioning of healthcare infrastructure, such as the provision of pharmaceuticals to hospitals.
- and the transportation of patients whose medical needs cannot be met in situ.

The data cover cases where the cessation of hostilities was limited in terms of its duration as well as cases where it was limited in terms of its geographical scope. Our data do not include, however, cases where the health need to be addressed directly relates to the harms associated with conflict, such as the treatment of war-wounded, as many general ceasefires have this type of provision. The data also do not include agreements relating to the broader range of activities associated with humanitarian protection or relief, such as the relocation of populations displaced by conflict and the provision of food in famine-hit areas, or agreements relating to, for example, prisoner exchange, except in cases where such activities take place in return for the provision of vaccines or other medical supplies or services.

Data collection took place through internet searches for activities that met the inclusion criteria above. The primary platforms that were used for data collection were Nexis Advance, ProQuest, Google, Google Scholar, Factiva, the document repositories of organisations such as UNICEF and the WHO, and relevant databases, such as the PA-X Peace Agreements Database (Bell et al., 2021). The data are supplemented by the relevant UCDP conflict codes (Pettersson et al., 2021) and the Gleditsch-Ward country codes (Gleditsch and Ward, 1999).

Each data unit is an event, a vaccination campaign supported by a ceasefire arranged for that purpose alone. Each event has a start and end date, as best estimated from the primary and secondary sources.

The dataset is available from the University of Edinburgh DataShare, in .csv format.

## References:

Bell, C., Badanjak, S., Beaujouan, J., Epple, T., Forster, R., Jamar, A., Molloy, S., McNicholl, K., Nash, K., Pospisil, J., Wilson, R., & Wise, L. (2021). PA-X Codebook, Version 5.

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Pettersson, T., Davis, S., Deniz, A., Engström, G., Hawach, N., Högladh, S., Sollenberg, M., and Öberg, M., 2021. Organized violence 1989-2020, with a special emphasis on Syria. *Journal of Peace Research* 58(4).

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# VARIABLES

## CaseID

Vaccination campaign case identification number, assigned by authors.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
CaseID	numeric	0	1	1	38	74	37.5	21.50581	██████████	NA


## Country

Name of the country in which the vaccination campaign and related ceasefire took place.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Country	character	0	1	18	0	3	22	0	NA


## StartYear

Start year of the vaccination ceasefire and campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
StartYear	numeric	0	1	1985	1998	2018	1996.946	7.79338		NA


### EndYear

End year of the vaccination ceasefire and campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
EndYear	numeric	0	1	1985	1998	2018	1996.986	7.811992		NA


### Startmonth

Start month of the vaccination ceasefire and campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Startmonth	numeric	5	0.9324324	1	6	12	6.318841	3.201529		NA

### Endmonth

End month of the vaccination ceasefire and campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Endmonth	numeric	5	0.9324324	1	6	12	6.405797	3.370804		NA

### Designation of the Event(s)

Description of the vaccination campaign and related ceasefire.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Designation of the Event(s)	character	3	0.9594595	22	0	9	72	0	NA

### Public Health Activities

List of public health activities that were conducted as part of the vaccination campaign.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Public Health Activities	character	0	1	15	0	20	63	0	NA

### Children

Binary variable, 1 if children were the main population for which the vaccination campaign was prepared.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Children	numeric	0	1	0	1	1	0.9324324	0.2527157	-----■	NA

### Mothers\_women

Binary variable, 1 if women/mothers were the main population for which the vaccination campaign was prepared.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Mothers_women	numeric	0	1	0	0	1	0.1891892	0.3943323	■-----	NA

### Others

Binary variable, 1 if populations other than children or women/mothers were the main population for which the vaccination campaign was prepared.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Others	numeric	0	1	0	0	1	0.0405405	0.1985695	■-----	NA

### Target Population(s)

Description of the population for which the vaccination campaign was prepared.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Target Population(s)	character	5	0.9324324	12	0	8	30	0	NA

### Polio

Binary variable, 1 if polio was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Polio	numeric	0	1	0	1	1	0.8648649	0.3442015	-----■	NA

### Measles

Binary variable, 1 if measles was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Measles	numeric	0	1	0	0	1	0.2837838	0.4539106	■-----■	NA

### Diphtheria

Binary variable, 1 if diphtheria was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Diphtheria	numeric	0	1	0	0	1	0.2162162	0.4144734	■-----■	NA

### Pertussis

Binary variable, 1 if pertussis was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Pertussis	numeric	0	1	0	0	1	0.2027027	0.404757	■-----■	NA

### Tetanus

Binary variable, 1 if tetanus was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Tetanus	numeric	0	1	0	0	1	0.2567568	0.439826	■-----■	NA

### Cholera



Binary variable, 1 if tetanus was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Cholera	numeric	0	1	0	0	1	0.027027	0.1632691	■-----	NA

### Rubella

Binary variable, 1 if rubella was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Rubella	numeric	0	1	0	0	1	0.0135135	0.1162476	■-----	NA

### Other

Binary variable, 1 if any other illness or health problem was the primary target of the vaccination campaign.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
Other	numeric	0	1	0	0	1	0.1351351	0.3442015	■-----	NA

### Target Public Health Issue(s)

List of public health issues that the campaign was designed to address.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Target Public Health Issue(s)	character	6	0.9189189	23	0	5	95	0	NA

### Parties Involved

List of organisations involved in administering the public health intervention.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
Parties Involved	character	4	0.9459459	31	0	6	134	0	NA

### UN\_involved

Binary variable, 1 if there is involvement of the UN, any of its organisations and their representatives.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
UN_involved	numeric	0	1	0	1	1	0.8783784	0.3290794	-----■	NA

### UCDP\_conflict

Code number for the armed conflict in which the intervention/ceasefire is taking place, as defined by the Uppsala Conflict Data Program.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
UCDP_conflict	numeric	0	1	230	333	410	324.9595	33.38626	---■---	NA

### UCDP2

Secondary code number for the armed conflict in which the intervention/ceasefire is taking place, as defined by the Uppsala Conflict Data Program. Only used if the campaign and ceasefire clearly address more than one armed conflict.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
UCDP2	numeric	72	0.027027	325	361	397	361	50.91169	■-----■	NA

### UCDP3

Tertiary code number for the armed conflict in which the intervention/ceasefire is taking place, as defined by the Uppsala Conflict Data Program. Only used if the campaign and ceasefire clearly address more than two armed conflicts.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
UCDP3	numeric	73	0.0135135	398	398	398	398		---■---	NA

### ISO3

ISO 3 country code for the country in which the conflict and related vaccination ceasefire are taking place.

name	data_type	n_missing	complete_rate	n_unique	empty	min	max	whitespace	label
ISO3	character	0	1	18	0	3	3	0	NA

### cases

This designation does not vary across cases, and is marked as 1 for each verified case of vaccination ceasefire.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
cases	numeric	0	1	1	1	1	1	0	---■---	NA

### gwno

Gleditsch-Ward country code for the country in which the conflict and related vaccination ceasefire are taking place.

name	data_type	n_missing	complete_rate	min	median	max	mean	sd	hist	label
gwno	numeric	0	1	92	689	860	550.8784	270.7526	■-■■■	NA

## Startdate

Best estimate of the starting date of the vaccination ceasefire.

name	data_type	n_missing	complete_rate	n_unique	min	median	max	label
Startdate	Date	5	0.9324324	65	1985-02-01	1997-09-01	2018-09-01	NA

## Enddate

Best estimate of the end date of the vaccination ceasefire.

name	data_type	n_missing	complete_rate	n_unique	min	median	max	label
Enddate	Date	5	0.9324324	63	1985-02-28	1997-09-28	2018-10-28	NA