

VIMC Request for Proposals

Output specifications guidance

The burden outcomes modelled within the VIMC across all diseases include deaths, (severe) cases, and DALYs, and we also ask modellers to record the underlying population size assumed in the model. These outcomes are stratified by annual age cohort, year and country.

The standard output templates – which apply to Japanese Encephalitis (JE) and Yellow Fever – contain the following columns:

Column name	Comment/explanation
disease ¹	Disease – will be constant across the file
year ¹	Calendar year – the default period is 2000 to 2100, but this may differ between models depending on the age range modelled
age ¹	Age in years of the birth cohort in the year in question The default age range is 0-100 years.
country ¹	3-letter ISO country code.
country_name ¹	Country name spelled out
cohort_size ²	The national population size of the cohort in question, irrespective of disease or vaccination status
deaths ²	Number of deaths in a given year and age group
cases ²	Number of severe cases in a given year and age group. This should be incidence rather than prevalence.
dalys ²	Number of disability adjusted life years (DALYs) lost, associated with the incidence of severe cases and deaths in a given year and age group. For a death occurring in year y and age a, the total number of life years lost until the end of the life expectancy should be recorded in year y and age a, rather than spread across future years and ages.

¹ will be pre-filled

² model outcomes to be provided by the modellers

The default age and year range are as above. If you do not model the same ranges, please specify this in the cover sheet of your application.

We provide the output templates as CSV files. Below is an example of the first few rows of a template:

	A	B	C	D	E	F	G	H	I	J
1	disease	year	age	country	country_name	cohort_size	deaths	cases	dalys	
2	Measles	2000	0	AFG	Afghanistan					
3	Measles	2000	1	AFG	Afghanistan					
4	Measles	2000	2	AFG	Afghanistan					
5	Measles	2000	3	AFG	Afghanistan					
6	Measles	2000	4	AFG	Afghanistan					

Pre-filled columns

Output columns for modellers to complete. Additional output columns may be included, depending on the disease.

For some diseases – including rubella – there are further or different burden outcomes, which are detailed below.

Outcomes specific to rubella

For rubella, the pre-filled columns for disease, year, age, country code, and country name are as standard.

The model outcomes which rubella modellers provide are as follows:

Column name	Comment/explanation
cohort_size	Standard (The national population size of the cohort in question, irrespective of disease or vaccination status)
rubella_deaths_congenital	Deaths of babies due to congenital rubella syndrome. These should be recorded in the mother's age, rather than at age 0, as it is the mother's infection that causes these and vaccination of the mother than can prevent them. These will be restricted to the age range of child-bearing age. Please enter NA for ages outside this age range assumed.
rubella_cases_congenital	Cases of babies of congenital rubella syndrome, equivalent to deaths.
rubella_infections	Infections of rubella in a given year and age group, in both males and females.
dalys	Should be calculated based on cases and deaths of congenital rubella syndrome only.