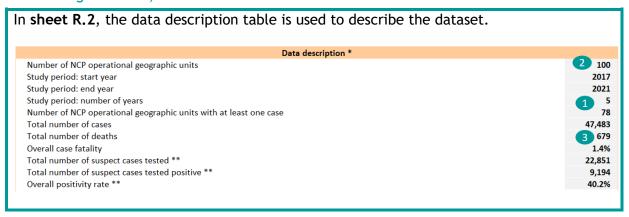


Answers to the exercise to practice using the PAMI Excel tool to identify PAMIs for cholera control

Describe the dataset

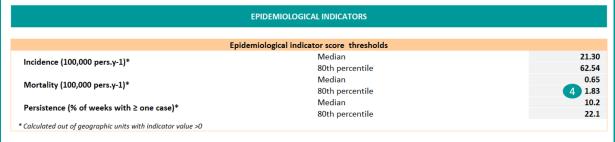
- 1. How many years are included in the analysis period? 5 (see 1 on the figure below)
- 2. How many operational units are there in this dataset? 100 (see 2 on the figure below)
- 3. How many deaths were reported in total over the analysis period? 679 (see 3 on the figure below)



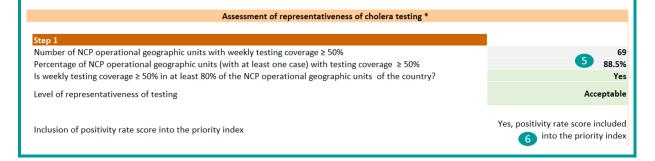
Describe some parameters of the PAMI analysis

- 4. What is the value of the 80th percentile of the mortality indicator? 1.83 (see 4 on the figure below)
 - (geo units with a mortality score ≥ this value will have a mortality score = 3)
- 5. Which proportion the geo units had weekly testing ≥ 50%? 88.5% (see 5 on the figure below)
- 6. Which testing indicator will be used? **Positivity rate** (see 6 on the figure below)

In **sheet R.2**, the epidemiological indicators table is used to describe the parameters of epidemiological indicators (incidence, mortality, persistence) in the PAMI analysis.



In sheet R.2, the testing indicator table is used to describe the parameters of testing indicators.

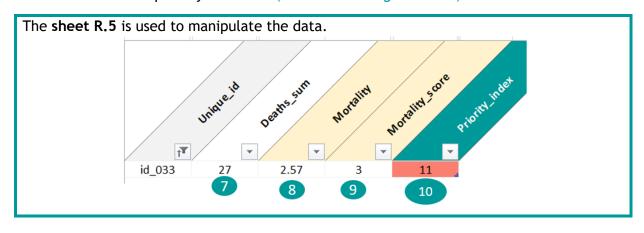


Explore the outputs of the calculations

Consider the geo unit id_033

In this geo unit:

- 7. How many deaths were registered over the analysis period? 27 (see 7 on the figure below)
- 8. What is the mortality rate? 2.57 (see 8 on the figure below)
- 9. What is the mortality indicator score? 3 (see 9 on the figure below)
- 10. What is the priority index? 11 (see 10 on the figure below)



Assess a potential priority index threshold

Stakeholders decided on a priority index threshold ≥ 11

- 11. What is the cumulative number of geographic units considered as PAMIs? 5 (see 11 on the figure below)
- 12. What is the cumulative percentage of population living in PAMIs? 6.6% (see 12 on the figure below)
- 13. What is the percentage of cases that occurred in PAMIs over the analysis period? ***38.2**% (see 13 on the figure below)
- 14. What is the percentage of deaths that occurred in PAMIs over the analysis period?≈19.6% (see 14 on the figure below)
- 15. What are your thoughts on the potential impact of the future NCP with a priority index set to ≥ 11? The NCP would be anticipated to have a rather limited impact. However, depending on the resources available in this country for implementing its NCP, it may not be possible to target more PAMIs by considering a lower priority index threshold.

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Priority index values	Number of geographic units	Cum. number of geographic units	Rel. % of num. of geographic units	Total population	Rel. % of population	Cum. % of population	Num. of cases	Rel. % of num. of cases	Cum. % of num. of cases	Num. of deaths	Rel. % of num. of deaths	Cum. % of num deaths
12	1	1	1.0%	372,328	1.7%	1.7%	7,404	15.6%	15.6%	47	6.9%	6.9%
11	4	5 11	4.0%	1,082,936	4.9%	6.6% 12	10,719	22.6%	38.2% 13	86	12.7%	19.69
10	9	14	9.0%	2,482,153	11.2%	17.8%	16,110	33.9%	72.1%	141	20.8%	40.4%
9	16	30	16.0%	3,440,568	15.5%	33.3%	8,283	17.4%	89.5%	198	29.2%	69.5%
8	6	36	6.0%	1,174,687	5.3%	38.6%	1,957	4.1%	93.7%	81	11.9%	81.4%
7	7	43	7.0%	1,485,332	6.7%	45.3%	1,242	2.6%	96.3%	64	9.4%	90.9%
6	13	56	13.0%	2,667,462	12.0%	57.3%	1,239	2.6%	98.9%	37	5.4%	96.3%
5	6	62	6.0%	1,411,159	6.4%	63.7%	308	0.6%	99.5%	13	1.9%	98.2%
4	5	67	5.0%	1,099,903	5.0%	68.7%	149	0.3%	99.8%	9	1.3%	99.6%
3	5	72	5.0%	956,310	4.3%	73.0%	57	0.1%	100.0%	2	0.3%	99.9%
2	6	78	6.0%	1,382,814	6.2%	79.2%	15	0.0%	100.0%	1	0.1%	100.0%
0	22	100	22.0%	4,607,481	20.8%	100.0%	0	0.0%	100.0%	0	0.0%	100.0%
Grand Total	100		100.0%	22,163,133	100.0%		47,483	100.0%		679	100.0%	

Explore the presence of vulnerability factors

- 16. How many geo units with a priority index of 10 have hard to access populations? 3 (see 16 on the figure below)
- 17. What are the unique identifiers of these geo units? id_277 // id_227 // id_224

The **sheet R.4** is used to look into the presence of vulnerability factors.



	VF_06_remote_unit	
Priority_index 🔻	Yes	No
12	1	
11		4
10	16 3	6
9	5	11
8		6
7		7
6	1	12
5	2	4
4	1	4
3	1	4
2	1	5
0	2	20
Grand Total	17	83

Right click on the cell of interest, **show details**, are used to identify the corresponding geo units.

