

A researcher is doing an MPOG project on propofol induction dosing across MPOG institutions, which is PCRC approved. The researcher then generates two spreadsheets describing propofol dosing across centers and over time:

% of cases with propofol charted		Year			
		2021	2022	2023	2024
MPOG Institution	A	99%	98%	99%	99%
	B	99%	21%	99%	99%
	C	0%	0%	0%	0%
	D	99%	98%	99%	99%
	E	0%	10%	99%	99%

Median propofol dose administered, among cases with propofol charted		Year			
		2021	2022	2023	2024
MPOG Institution	A	120	130	120	120
	B	150	140	150	140
	C	N/A	N/A	N/A	N/A
	D	120,000	130,000	150,000	140,000
	E	N/A	N/A	140	150

The researcher, after examining these two tables, deduces that there are 4 unique problems related to the quality of MPOG data, each highlighted as a different color in the above tables. To further explore each of these problems, the researcher then generates a random subsample of 3 cases corresponding to each colored cell. Upon using case viewer to review these cases, the researcher determines:

- Yellow cell → Institution B was going through a change in their EHR (switched from Centricity → Epic), and there were multiple cases in 2022 where propofol wasn't accurately charted; but the issue was fixed by 2023.
- Orange cells → Institution C has mis-mapped all of their propofol data.

- Pink cells → Institution E mis-mapped their propofol data in 2021 and most of 2022, but then in November of 2022 fixed the problem
- Blue cells → Institution D is documenting their propofol in micrograms, rather than milligrams, and thus every value is off by a factor of 1,000

The researcher then decides to make these curations to their dataset:

- Exclude 2022 data from Institution B
- Exclude Institution C entirely (and let the MPOG coordinating center staff know that they have mis-mapped propofol data; so that this problem can be fixed in the future)
- Exclude 2021 and 2022 data from Institution E (and let the MPOG coordinating center staff know that they have mis-mapped propofol data before 2023; so that this problem can be fixed in the future)
- Divide all propofol doses from Institution D by 1,000