

Understanding the ISDR (International Simulation Data Registry) Report

The ISDR report will be prepared annually for each participating centers that has data in the registry. It contains an overview of several outcome measures for each participating center ('Selected Center') and compared them to the global data base ('All Centers'). Requests for special reports (for example filtered date ranges, or reports containing only data from quality improvement or unannounced in-situ simulations etc.) or raw data can be made by participating centers*.

On the top of the graph you will find your center's name and the date range. Generally, the report will contain all the data since inception (if you are interested in a particular date range in the form of a special report, please let us know).

The first set of tables (blue and red) contain the outcome measures for various scenarios (the scenarios are listed in the first column on the left: i.e. VFib: Time to Recognition, VFIB: Time to effective CPR etc...). Here is what is shown for your center (blue) compared to the global data base (red):

1. **Total (count):** number of valid entries into the data base
2. **Intervention not done (count):** number of scenarios where the action was not done
3. **Intervention done (count):** number of scenarios where the action was done
4. **Intervention not done (%):** the percentage of scenarios when the action was not done
5. **Median (time in seconds):** median time in seconds until the action was done
6. **90th % Percentile (time in seconds):** time in seconds below which fall 90% of scenarios
7. **97.5th % Percentile (time in seconds):** time in seconds below which fall 97.5% of scenarios
8. **99th % Percentile (time in seconds):** time in seconds below which fall 99% of scenarios

The graphs in the lower part display the table information graphically**. The **two graphs on the left** show the median times (in seconds) for your center (blue) and for the global data base (red). **The next set of graphs** display the percentiles for your center graphically (90th, 97.5th and 99th) – while global percentiles are not included in the graphs, they can be obtained from the tables above.

On the **right side are the box plots***** which display the median, quartiles and range for your center (in blue) and for the global data base (in red).

Summary: if you find that your center has a much higher than average percentage of participants who don't perform an intervention, or if you find that your average times are consistently longer than the global average you may want to investigate aspects of the included sessions (including curricular structure or scenario fidelity).

* The type of tables and graphs contained in the report are scripted in a macro and cannot be changed, but you could request your raw data and construct your own graphs if you are looking for something specific.

** This data can assist you and your team in detecting possible outliers. Please note that different domains use different 'cut-offs': laboratory time measures often work with 90th percentiles, whereas physiological measurements (i.e. growth curve) work with 2 standard deviations (97.5th percentile) and biological reference values (troponin values) with 99th percentiles. Please also note there is a degree of accuracy with which we can calculate those values (confidence intervals) and that we decided not to display those for simplicity.

*** if there are not enough data for a calculation, then you may get abnormal graphs

International Simulation Data Registry Report

Name:

Date Range: 01 Jan 2000 to 01 Jan 2100

	Total (count)		Intervention not done (count)		Intervention done (count)		Intervention not done (%)		Median (time in seconds)		90th % Percentile (time in seconds)		97.5th % Percentile (time in seconds)		99th % Percentile (time in seconds)	
	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers	Selected Center	All Centers
Vfib: Time to Recognition	67	121	1	2	66	119	1%	2%	8	10	19	28	27	84	39	84
Vfib: Time to effective CPR	66	123	4	4	62	119	6%	3%	21	24	59	101	110	173	155	173
Vfib: Time to correct defibrillation	67	137	13	18	54	119	19%	13%	120	120	230	304	294	441	413	441
Vfib: Time to correct adrenaline	23	73	3	14	20	59	13%	19%	110	118	206	239	288	467	322	467
PEA: Time to Recognition	84	121	6	7	78	114	7%	6%	14	15	82	77	180	184	198	184
PEA: Time to effective CPR	85	123	8	9	77	114	9%	7%	37	29	167	127	210	273	271	273
PEA: Time to correct adrenaline	83	120	9	11	74	109	11%	9%	134	140	239	282	374	459	406	459
Pneumothorax: time to decompression	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH: diagnosis to d/c agent	0	1	0	0	0	1	-	0%	-	480	-	-	-	-	-	
MH: diagnosis to Dantrolene	0	1	0	0	0	1	-	0%	-	690	-	-	-	-	-	
Diff. Airway: time to ventilation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

