

FOD VOLKSGEZONDHEID, VEILIGHEID VAN DE VOEDSELKETEN EN LEEFMILIEU


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## NIC 2004-2007

### Mortality and ICH

#### Missing data

W. Aelvoet, FPS Health



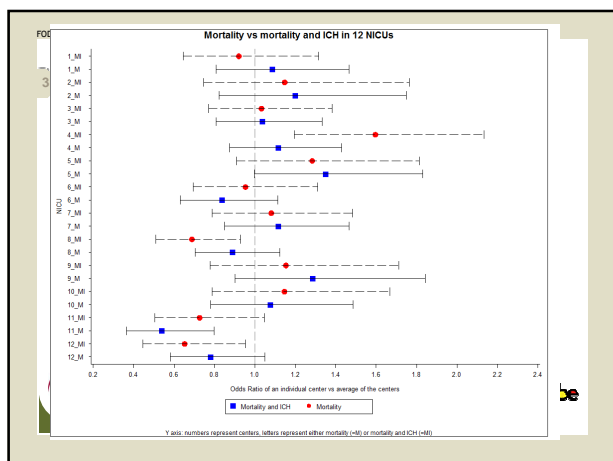
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## Endpoints of the analysis

	MORT		ICH		CLD	
	OR	p-value	OR	p-value	OR	p-value
Id 1 vs 12	1.40	0.3351	1.41	0.3844	0.58	0.1569
Id 2 vs 12	2.22	0.0466	1.58	0.3671	0.88	0.7840
Id 3 vs 12	1.86	0.0413	1.05	0.8950	1.24	0.4577
Id 4 vs 12	2.94	0.0002	0.42	0.0686	2.63	0.0003
Id 5 vs 12	2.57	0.0033	1.42	0.3953	1.29	0.4355
Id 6 vs 12	1.59	0.1441	0.56	0.1972	0.33	0.0047
Id 7 vs 12	1.92	0.0377	1.17	0.6920	0.92	0.8044
Id 8 vs 12	1.09	0.7779	1.24	0.5224	0.91	0.7155
Id 9 vs 12	2.37	0.0188	1.66	0.2692	1.07	0.8744
Id 10 vs 12	2.22	0.0242	0.92	0.8694	0.12	0.0071
Id 11 vs 12	1.16	0.6717	0.13	0.0074	0.86	0.6422

Bonferroni-corrected p:0.004545



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## Missing data

"... there is no analytic approach that can assuredly produce unbiased estimates of treatment effects when relevant data are missing and therefore recommend that investigators place increased emphasis on strategies for designing and conducting studies to minimize missing data." Ware J.H. et al. N Engl J Med 2012; 367:1353-4.

The "investigators" recommend: "Provide monetary and non-monetary incentives to investigators and participants for completeness of data collection

Limit the burden and inconvenience of data collection on the participants, and make the study experience as positive as possible."

Little RJ et al. N Engl J Med 2012; 367:1355-60.

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## How to interpret the ROP data?

ID	None	%	Not tested	%	Unknown	%	Yes	%
1	200	89.69	3	1.35	0	0.00	20	8.97
2	103	92.79	1	0.90	1	0.90	6	5.41
3	335	93.06	20	5.56	0	0.00	5	1.39
4	282	76.22	79	21.35	0	0.00	9	2.43
5	195	92.42	10	4.74	1	0.47	5	2.37
6	197	65.89	33	11.04	65 <sup>o</sup>	21.74	4	1.34

In last sending of corrected 2009-data we still observe 27 not tested/unknown

7	216	81.82	31	11.74	2	0.76	13	4.92
8	437	89.00	21	4.28	1	0.20	31	6.31
9	98	93.33	0	0.00	0	0.00	7	6.67
10	168	90.81	15	8.11	0	0.00	2	1.08
11	308	97.47	7	2.22	1	0.32	0	0.00
12	283	92.18	11	3.58	0	0.00	13	4.23
Total	2822		231		71		115	

<sup>o</sup> all in 2009

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Id	CLD							
	No BPD		Unknown or N/A		Total	No BPD 2		Total 2
	N	%	N	%		N	%	
1	209	93.72	2	0.90	223	209	94.57	221
2	96	86.49	8	7.21	111	96	93.20	103
3	312	86.67	3	0.83	360	312	87.39	357
4	298	80.54	6	1.62	370	298	81.87	364
5	185	87.68	3	1.42	211	185	88.94	208
6	266	88.96	16	5.35	299	266	93.99	283
7	199	75.38	47	17.80	264	199	91.71	217
8	429	87.37	7	1.43	491	429	88.64	484
9	93	88.57	1	0.95	105	93	89.42	104
10	180	97.30	2	1.08	185	180	98.36	183
11	257	81.33	21	6.65	316	257	87.12	295
12	270	87.95	1	0.33	307	270	88.24	306
Total	2794		117		3242	2794	89.41	3125

CLD GA LT 29 wk  
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7 CLD GA < 29 wk

id	No BPD		Grade I		Grade II/III		Unknown or N/A		Total
	N	%	N	%	N	%	N	%	
1	70	86.42	0	0.00	9	11.11	2	2.47	81
2	23	65.71	0	0.00	5	14.29	7	20.00	35
3	108	75.52	3	2.10	31	21.68	1	0.70	143
4	77	60.63	0	0.00	46	36.22	4	3.15	127
5	64	79.01	0	0.00	15	18.52	2	2.47	81
6	94	81.74	6	5.22	9	7.83	6	5.22	115
7	73	67.59	0	0.00	10	9.26	25	23.15	108
8	165	78.20	1	0.47	40	18.96	5	2.37	211
9	49	85.96	0	0.00	7	12.28	1	1.75	57
10	62	93.94	1	1.52	1	1.52	2	3.03	66
11	66	58.93	14	12.50	17	15.18	15	13.39	112
12	99	77.34	0	0.00	28	21.88	1	0.78	128
Total	950		25		218		71		1264