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Box 1: Best and Worst hospitals

Best hospitals

- Stockport NHS Foundation Trust
- Gateshead Health NHS Trust
- North Cumbria Acute Hospitals NHS Trust
- Northern Devon Healthcare NHS Trust
- Northumbria Healthcare NHS Foundation Trust
- County Durham and Darlington NHS Foundation Trust
- Royal Cornwall Hospitals NHS Trust
- Salford Royal NHS Foundation Trust
- Hull and East Yorkshire Hospitals NHS Trust
- Wirral University Teaching Hospital NHS Trust

Worst hospitals

- West Hertfordshire Hospitals NHS Trust
- Newham University Hospital NHS Trust
- Barking, Havering and Redbridge Hospitals NHS Trust
- Chelsea and Westminster Hospital NHS Foundation Trust
- Homerton University Hospital NHS Foundation Trust
- Mayday Healthcare NHS Trust
- Bromley hospitals NHS Trust
- Luton and Dunstable NHS Foundation Trust
- Bart's and the London NHS Trust
- St. George's Healthcare NHS Trust

Table 1: Summary statistics for best, worst rated and national comparison group hospitals in 2006/07

	Best	Worst	National comparison group
Hospitals	10	9	89
Annual number of maternity admissions (SD)	**3,283 (1,328)	5,309 (1,654)	4,574 (1,685)
Number of maternity beds (SD)	53.6 (25.2)	70.8 (21.8)	64.5 (27.4)
Occupancy of maternity beds% (SD)	*63.0 (11.9)	79.2 (25.0)	77.3 (26.6)
Number of WTE GPs	5.8 (1.7)	4.9 (0.9)	5.4 (1.1)
Catchment area population aged 15-34	253,707	**1,501,304	477,915
% catchment area which is urban	83.0 (17.0)	**96.9 (5.3)	88.0 (10.5)
Number of NHS hospitals within 5km	9	12	-
Number of NHS hospitals within 10km	12	20	-
Mean income score for area from IMD 2004	**0.176 (0.033)	*0.167 (0.044)	0.136 (0.047)
% of deliveries by C-section	9.3 (0.9)	**7.6 (2.8)	9.9 (1.9)
% of deliveries to women>35 years old	*17.5 (2.5)	21.4 (6.2)	20.3 (5.0)
% of deliveries from deprived mothers†	29.4 (13.2)	**45.7 (33.5)	26.0 (18.3)
% of deliveries from affluent mothers†	*10.5 (6.6)	*9.4 (9.5)	17.0 (11.8)
% of deliveries for which hospital was closest	84.4 (17.5)	76.0 (14.5)	79.0 (19.3)

† Defined as mothers living in the 20% most and least deprived areas nationally as defined by the Index of Multiple Deprivation

* Significantly different to national comparison group at p≤0.10

** Significantly different to national comparison group at p≤0.05

Table 2: Changes in maternity admissions, relative to baseline in the best hospitals (matched analysis)

	Pre baseline			Baseline	Post baseline					
	13–18 months	7–12 months	6 months		6 months	7–12 months	13–18 months	19–24 months	25 -30 months	31-36 months
Number of admissions	3.61 (0.164)	1.95 (0.450)	-0.70 (0.786)	Reference	2.19 (0.397)	2.33 (0.368)	2.86 (0.268)	-0.59 (0.819)	2.14 (0.407)	2.26 (0.381)
% births by C section	0.64 (0.156)	-0.37 (0.415)	0.81 (0.075)	Reference	-0.39 (0.391)	0.06 (0.887)	-0.12 (0.796)	-0.51 (0.259)	-0.49 (0.278)	0.33 (0.464)
% births by mothers >35	-0.70 (0.097)	-0.25 (0.541)	0.03 (0.944)	Reference	-0.09 (0.837)	-0.11 (0.786)	-0.49 (0.244)	**-1.10 (0.009)**	**-1.11 (0.009)**	**-0.87 (0.039)**
% deprived mothers	-0.67 (0.184)	-0.69 (0.176)	**-1.54 (0.003)**	Reference	-0.82 (0.106)	-0.52 (0.308)	-0.04 (0.932)	-0.56 (0.270)	-0.57 (0.257)	-0.36 (0.478)
% affluent mothers	-0.23 (0.527)	-0.31 (0.398)	0.45 (0.221)	Reference	-0.25 (0.489)	-0.47 (0.201)	-0.02 (0.965)	0.00 (0.993)	**-0.81 (0.028)**	-0.49 (0.179)
% attending closest hospital	0.20 (0.622)	0.47 (0.250)	-0.48 (0.242)	Reference	-0.27 (0.510)	-0.28 (0.492)	-0.34 (0.406)	0.07 (0.864)	0.47 (0.252)	-0.19 (0.639)

Statistically significant findings at p≤0.05 in bold

Table 3: Changes (%) in maternity admissions, relative to baseline in the worst hospitals (matched analysis)

	Pre baseline			Baseline	Post baseline					
	13–18 months	7–12 months	6 months		6 months	7–12 months	13–18 months	19–24 months	25 -30 months	31-36 months
Number of admissions	0.01 (0.998)	4.24 (0.294)	2.04 (0.613)	Reference	-1.99 (0.622)	-6.44 (0.112)	-3.00 (0.456)	-1.41 (0.727)	-3.13 (0.437)	-1.51 (0.708)
% births by C section	-0.59 (0.351)	-0.83 (0.188)	-0.12 (0.843)	Reference	0.71 (0.258)	1.18 (0.062)	1.72 (0.007)	1.21 (0.057)	1.58 (0.013)	2.09 (0.001)
% births by mothers >35	-0.18 (0.717)	0.60 (0.238)	0.33 (0.515)	Reference	0.53 (0.296)	0.68 (0.177)	0.97 (0.056)	**1.34 (0.009)**	**0.98 (0.053)**	**1.44 (0.005)**
% deprived mothers	-0.42 (0.434)	-0.42 (0.435)	**-0.07 (0.893)**	Reference	-0.44 (0.419)	-0.70 (0.196)	-1.26 (0.022)	-0.76 (0.163)	-0.95 (0.081)	-0.92 (0.091)
% affluent mothers	0.24 (0.537)	0.22 (0.572)	0.14 (0.715)	Reference	0.03 (0.946)	0.10 (0.787)	0.19 (0.622)	-0.10 (0.794)	**0.27 (0.487)**	0.31 (0.423)
% attending closest hospital	0.24 (0.702)	0.11 (0.863)	-0.16 (0.795)	Reference	-0.46 (0.466)	-0.53 (0.400)	-0.91 (0.149)	-1.28 (0.044)	-1.92 (0.003)	-1.50 (0.018)

Statistically significant findings at p≤0.05 in bold

Table 4: Percentage of women rating their care positively during pregnancy, labour and after birth before and after public reporting [¥]

		Nationally	Best group (p-value difference from national group)	Controls matched on 2007 score (p value difference from best group)	Worst group (p-value difference from national group)	Controls matched on 2007 score (p value difference from worst group)
During pregnancy	2007	87.9	91.9	91.7	81.9	81.8
	2010	92.4	95.0	94.0	88.4	91.3
	Change in %	+4.5	+3.1 (<0.001)	+2.3 (0.057)	+6.5 (<0.001)	+9.5 (<0.001)
During labour	2007	89.0	92.9	92.5	81.7	82.3
	2010	93.4	95.7	93.5	89.4	90.0
	Change in %	+4.4	+2.8 (<0.001)	+1.0 (<0.001)	+7.7 (<0.001)	+7.7 (0.963)
After birth	2007	80	85.2	76.7	65.4	72.8
	2010	88.4	91.0	87.2	80.8	86.4
	Change in %	+8.4	+5.8 (<0.001)	+10.5 (<0.001)	+15.4 (<0.001)	+13.6 (0.037)

[¥] Rating care positively defined as percentage of women stating that their care was “good”, “very good”, or “excellent.”
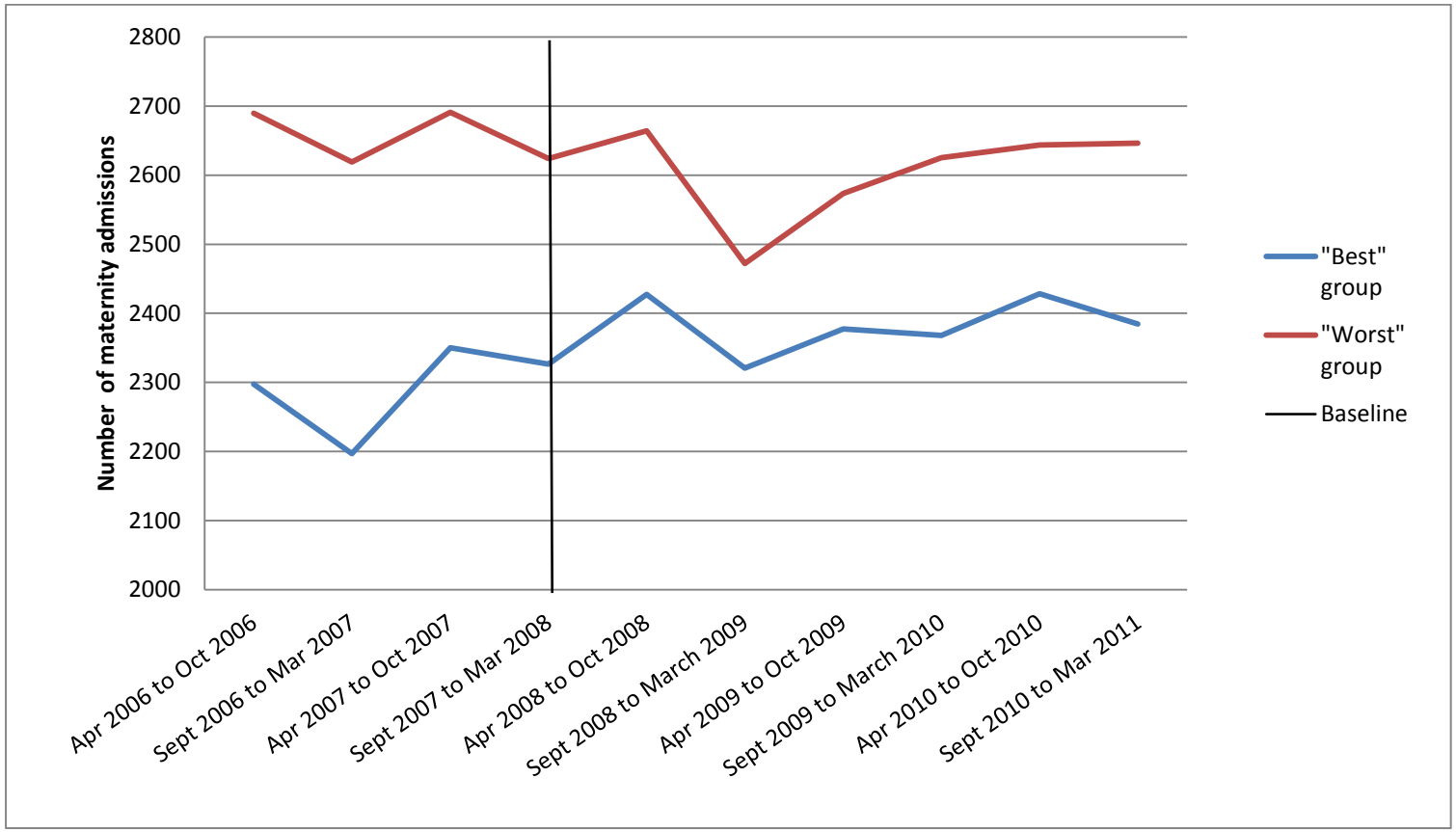
Figure 1: Overall maternity admission numbers in “best” group and “worst” group, April 2006 – March 2011