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Definitions

- Staffing: number of nurses per cot
- Throughput: admissions / days per cot per year
- **Activity**: babies receiving / days of respiratory support per admission

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Statistical methods

- Simple descriptive characteristics
- Standardised ratios
 - BAPM cot criteria:

- Nurse recommendations:

· Linear regression of ratios

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Unit numbers

• Sensitivity analyses for each regression model

	L1	L2	L3	ı
1997	-	14	45	
2006	62	74	46	(2
2011	43 (7)	72	44	(3

L1	L2	L3
-	12	
18 (29%)	61 (82%)	44 (96%)
18 (36%)	61 (85%)	44 (100%)

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Unit numbers

• All IC – all intensive care units at all time points

	L1	L2	L3
1997	-	14	5
2006	62	74	46
2011	43 (7)	72	44

L1	L2	L3	
-	123 (84.8%)		
18 (29%)	61 (82%)	44 (96%)	
18	61	44	

Unit numbers

• All units - all units in 2006 and 2011

	L1	L2	L3
1997	-	14	45
2006	62	74	46
2011	43 (7)	72	44

L1	L2	L3	
-	123 (84.8%)		
18 (29%)	61 (82%)	44 (96%)	
18	61	44	

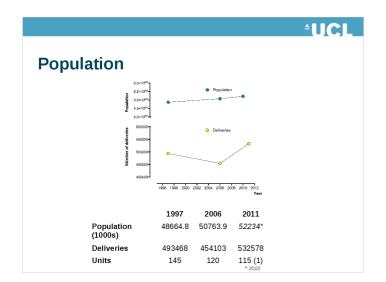
Unit numbers

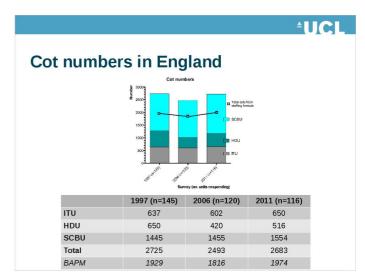
• All data - units with data at all time points

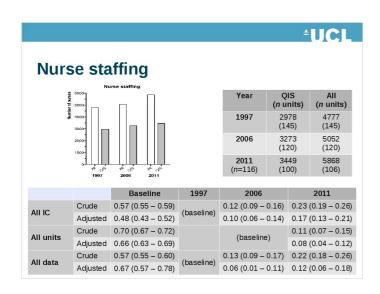
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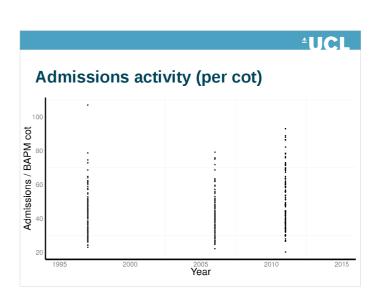
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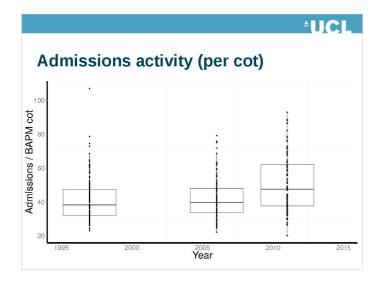
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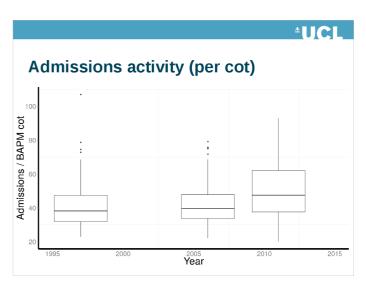


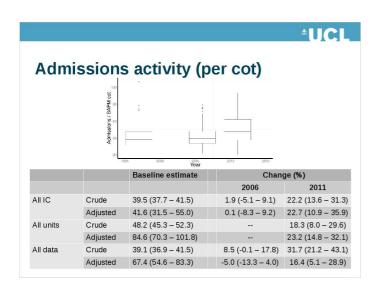


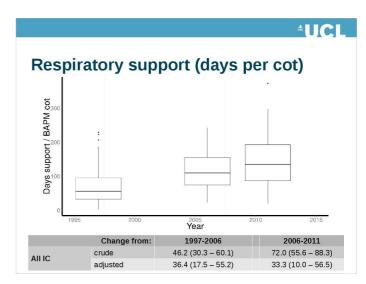


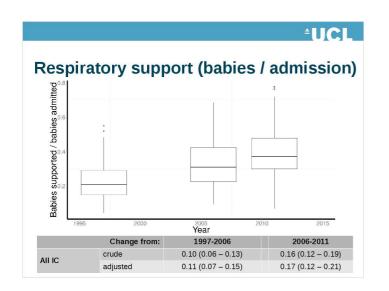


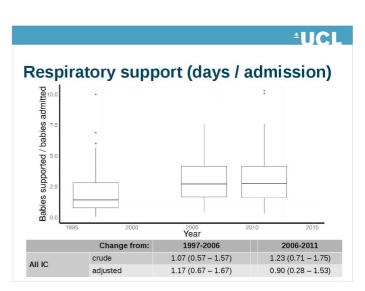












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Conclusion

- Increased nurses but low starting point
- · Better cot utilisation
- Increased "sick" babies (i.e. needing respiratory support)

≜UCL Thanks to... • Supervisors: Collaborators Neil Marlow Bliss Liz Draper BAPM NNAP · Advisors: • Stavros Petrou & Enid Hennessy colleagues Kate Costeloe NDAU • Admin support: Laura McCormack • Kate Fernandes **EPICure** Institute for Women's Health