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Low rates of MTCT of HIV in the UK and Ireland, 2000-2006 Townsend et al. AIDS 2008;22:973-81

- Overall MTCT 1.2% (95% CI: 0.9-1.5%, 61/5151)
 - 0.8% in women with 14+ days of ART (40/4864)
- 464 women on ZDV mono with planned CS
 - No transmissions
- Minimal transmission from women on HAART delivering as planned
 - MTCT rate 0.7% (2286 women with planned CS)
 - MTCT rate 0.7% (559 women with planned VD)







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Aim

- To explore the association between duration of rupture of membranes and vertical transmission of HIV in the era of HAART
- Using routinely collected surveillance data from the UK and Ireland











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Results (3)		
Mother-to-child-trans	smission	
■ 253 women with va	ginal delivery	
– ROM <u><</u> 6 hrs: – ROM > 6 hrs:	1.0 % (2/192) 0.0% (0/61)	p = 1.00
168 women with em	ergency CS	
– ROM <u><</u> 6 hrs: – ROM > 6 hrs:	2.2% (2/92) 2.6% (2/76)	p = 1.00







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Results (5)		
Mother-to-child-trans	mission	
62 women with VL 5	0-999 copies/ml	
– ROM <u><</u> 6 hrs: – ROM > 6 hrs:	0.0 % (0/40) 4.6% (1/22)	p = 0.36
15 women with VL >	1000 copies/ml	
– ROM <u><</u> 6 hrs: – ROM > 6 hrs:	23.1% (3/13) 50.0% (1/2)	p = 0.48

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Results	(6) 6 mother/child p			pairs		
	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6
ROM (hrs:mins)	3:30	4:00	4:40	5:50	6:50	12:45
Mode of delivery	EM CS	Planned vaginal	BBA vaginal	EM CS	EM CS	EM CS
Gestation	36	40	37	39	40	38
HAART start wk	17	17	32	22	21	33
Maternal VL (copies/ml)*	48,230	<40	23,460	71,500	122,040	330
Infant age at 1st positive PCR	Day 1	16 wks	Day 1	6 wks	Day 4	Day 1
*Closest to delivery			Li	kely <i>in ute</i>	<i>ro</i> transm	issions

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Summary

- No evidence of increased MTCT risk with longer duration of ROM, but limited data
- Need to continue to collect comprehensive data on
 - Mode of delivery
 - ROM and duration of ROM
 - Viral load close to delivery
- Plan to update this analysis with later 2009 births and infection status reports

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