Economic evidence tables for review question: What is the effectiveness of uterotonics for the prevention of postpartum haemorrhage?

Table 30: Economic evidence tables for the effectiveness of uterotonics for the prevention of postpartum haemorrhage

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Study country and type	Intervention and comparator	Study population, design and data sources	Costs and outcomes (descriptions and values)	Results	Comments
	comparator Interventions in detail: * ergometrine * ergometrine plus oxytocin * carbetocin * misoprostol * misoprostol plus oxytocin Comparator in detail: * oxytocin	data sources Population characteristi cs: Women at risk of PPH after birth Modelling approach: Decision analytic model Source of baseline data:	and values) Vaginal births no adverse events Mean cost per participant: Oxytocin £2,545 Ergometrine plus oxytocin £2,538	Vaginal births no adverse events ICERs: carbetocin v ergometrine plus oxytocin £1,889 per PPH ≥ 500 ml avoided ergometrine plus oxytocin	Currency: GBP Cost year: 2016 Time horizon: 6 days Discounting: N/A Applicability:
Source of funding: National Institute for Health Research (NIHR)		Oxytocin direct and indirect evidence from trials included in the NMA Source of effectiveness data: Direct and indirect evidence from trials included in the NMA Source of cost data: Birmingham Women's Hospital, Literature estimates Source of unit cost data: NHS Reference	Carbetocin £2,551 Misoprostol plus oxytocin £2,539 Misoprostol £2,548 Ergometrine £2,551 Primary measure of outcome: PPH ≥ 500 ml avoided Mean outcome per participant: Oxytocin 0.908 Ergometrine plus oxytocin 0.936	dominates all other interventions Probability of being cost effective: Carbetocin had a greater than 50% probability of being cost-effective relative to oxytocin for cost-effectiveness thresholds > £864 per PPH ≥ 500 ml avoided Subgroup analysis: Caesarean births with no adverse events and excluding ergometrine	Partially applicable Limitations: Potentially serious limitations

		Study	Costs and		
Study	Intervention	population,	outcomes		
country and	and	design and	(descriptions		
type	comparator		and values)	Results	Comments
	and comparator	design and data sources Costs 2014- 15, BNF 71, NHS Electronic Drugs Tariff 2016	Carbetocin 0.944 Misoprostol plus oxytocin 0.931 Misoprostol 0.899 Ergometrine 0.891 :	Results and ergometrine plus oxytocin Misoprostol plus oxytocin dominates Sensitivity analysis: Vaginal births with adverse events carbetocin v oxytocin £928 per PPH ≥ 500 ml avoided oxytocin dominates all other interventions Caesarean births with adverse events and excluding ergometrine and ergometrine and ergometrine and ergometrine and ergometrine and ergometrine and carbetocin v misoprostol plus oxytocin £2,480 per PPH ≥ 500 ml avoided carbetocin dominates all other interventions Caesarean births with adverse events and including ergometrine and including ergometrine and including ergometrine and	Comments

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Study country and	Intervention and	population, design and	outcomes (descriptions		
type	comparator	data sources	and values)	Results	Comments
				ergometrine plus oxytocin ergometrine plus oxytocin dominates all other interventions Caesarean births with no adverse events and including ergometrine and ergometrine plus oxytocin ergometrine plus oxytocin dominates all other interventions	
Author and year: Matthijsse 2022 Country: UK Type of economic analysis: Cost effectiveness analysis Source of funding: Ferring Pharmaceutic als	Interventions in detail: 100 µg carbetocin given intramuscularl y Comparator in detail: 10 IU bolus oxytocin	Population characteristics: Women at risk of PPH after vaginal birth Modelling approach: Decision analytic model Source of baseline data: Oxytocin direct and indirect evidence from trials included in the NMA Source of effectiveness data: Direct and indirect evidence from trials included in the NMA	Mean cost per participant: Intervention: £1,375 Control: £1,430 Difference: -£55 Primary measure of outcome: PPH event avoided Mean outcome per participant: Intervention: 0.0878 Control: 0.1220 Difference: -0.0342	ICERs: Carbetocin dominates Probability of being cost effective: 79.5% probability that carbetocin dominates Sensitivity analysis: A number of one-way sensitivity analyses presented as a Tornado diagram	Currency: GBP Cost year: 2019 Time horizon: 30 days Discounting: N/A Applicability: Partially applicable Limitations: Potentially serious limitations Other comments: Study funded by manufacturer of carbetocin

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Study country and type	Intervention and comparator	Study population, design and data sources	Costs and outcomes (descriptions and values)	Results	Comments
		Source of cost data: Survey of midwives in France, Italy, the Netherlands and the UK, expert opinion, North Bristol NHS Trust Postpartum Haemorrhage Study Source of unit cost data: NHS Reference Costs 2018-19, MIMS 2020, PSSRU 2019			

GBP = Pounds Sterling; ICER = Incremental cost effectiveness ratio; MIMS = Monthly Index of Medical Specialties; NMA = Network meta-analysis; PPH = Postpartum haemorrhage; PSSRU = Personal Social Services Research Unit