





Evidence Assessment: Summary of a Systematic Review

Who is this summary for?

This evidence assessment is for health personnel, health facility administrators and the stakeholders involved in mother and child health.

Immediate postpartum insertion of intrauterine device for contraception

Key findings

- Changing intrauterine contraception design did not seem to affect intrauterine contraception stayed or whether it was used later on.
- Inserting intrauterine contraception by hand or with a holding instrument does not seem to make a difference.
- The use of intrauterine contraception at six months was more likely with insertion right after childbirth than weeks later.

Background

Women who want to start intrauterine contraception (IUC) during the postpartum period might benefit from IUC insertion immediately after delivery. Beginning IUC use right after childbirth and before hospital discharge can be good for many reasons. The woman knows she is not pregnant, and the time and place are convenient for starting a method that works well. However, it is uncertain if this approach should be taken to scale.

Question

What are the outcomes of intrauterine contraception insertion immediately after placenta delivery (within 10 minutes), when compared with insertion at other postpartum times?

Immediate postpartum insertion of intrauterine device for contraception in Cameroon: The rate of use of modern contraceptive methods of 14%. The use of modern contraceptive methods in the immediate postpartum period is being tested in Cameroon since the beginning of 2015. This intervention could improve the use of modern contraceptive in Cameroon.

	What the review authors searched for	What the review authors found	
Studies	Randomized controlled trials	Fifteen randomized controlled trials met the inclusion criteria.	
Participants	Postpartum women of any age	Postpartum women of any age	
Interventions	Trials were eligible if they examined insertion of any type of intrauterine contraception within 10 minutes of placental delivery, either vaginal or cesarean.	Two trials examined immediate insertion (within 10 minutes post placental delivery) versus early postpartum insertion (10 minutes to 48 hours including both vaginal and cesarean delivery. Four trials compared immediate versus standard insertion (4 to 12 weeks postpartum). One trial examined immediate, early, and standard (after six weeks) insertion of the levonorgestrel- releasing intrauterine system after vaginal delivery. Two early trials focused on progesterone-releasing copper-containing intrauterine devices. Two trials, investigators modified a Nova T device to have two flexible arms, 2 cm in length, added to the base of the vertical stem; the arms pointed superiorly at a 45- degree angle.	
Controls	 Different devices or different insertion techniques. Immediate postplacental insertion (within 10 minutes of placenta delivery) versus early postpartum insertion (10 minutes to hospital discharge). Immediate postplacental insertion (within 10 minutes of placenta delivery) versus standard insertion (during a postpartum visit after hospital discharge), often referred to as delayed or interval insertion. 	Early insertion (10 minutes to 48 hours post-delivery). Standard insertion (at postpartum visit)	
Outcomes	Primary outcomes Successful placement (insertion), subsequent expulsion, and method use at study assessment Secondary outcomes Pregnancy, perforation, infection, and other adverse events.	The outcomes reported were: Pregnancy; Successful placement; Subsequent expulsion; Infection; Adverse events. 	
Date of the mos	t recent search: 1 April 2015.		
	s is a high quality systematic review, AMSTAR =10/11		
		AM. Immediate postpartum insertion of intrauterine devic	
	otion. Cochrane Database of Systematic Re		
	858.CD003036.pub3.	,	

Table 2: Summary of findings

Population: postpartum womer	with desire for contraceptiv	/e	
Setting: hospital or clinic			
Intervention: immediate postpl	acental insertion (within 10 r	ninutes)	
Comparison: early insertion (1	0 minutes to 48 hours post-d	elivery)	
Outcomes	Relative effect (95% Cl)	No of Participants (studies)	Quality of the evidence (GRADE)
Expulsion by 6 months	1.00 [0.20-5.04]	30 (1)	Moderate

intrauterine contraception use at 6	0.46	30	Moderate
months	[0.04-5.75]	(1)	
Immediate insertion compared with	standard insertion fo	r postpartum intrauterine	contraception
Patient or population: postpartum wa	omen with desire for co	ontraceptive	
Setting: hospital or clinic			
Intervention: immediate postplacente	I insertion (within 10 m	ninutes)	
Comparison: standard insertion (at p	ostpartum visit)		
Outcomes	Relative effect (95% Cl)	No of Participants (studies)	Quality of the evidence (GRADE)
Placement per protocol	4.07	243	Moderate
	[0.54-30.40]	(4)	
Expulsion by 6 months	4.89	210	Moderate
	[1.47-16.32]	(4)	
Intrauterine contraception use at 6	2.04	243	Moderate
months	[1.01-4.09]	(4)	

Applicability

Of the 15 studies, four were conducted in the USA, two were carried out in India, one in Uganda, one in Malawi, one in Turkey, one in Philippines, one in Turkey and one in Chile, one in Belgium and one in China. These interventions may be applied in other low resources settings such as Cameroon.

Conclusions

Compared to standard insertion, immediate insertion of a contraceptive led to higher contraception use at 6 months but higher expulsion of device at 6 months. The benefit of effective contraception immediately after delivery may outweigh the disadvantage of increased risk for expulsion. Prenatal visits during the third trimester provide the opportunity to discuss effective contraceptive methods and desired timing for initiation.

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