





Evidence assessment: Summary of a systematic review

Who is this summary for?

This evidence assessment is meant for clinicians, administrators of health facilities and decision makers.

Telephone support for women during pregnancy and the first six weeks after delivery

Key findings

- Telephone support may increase women's overall satisfaction with their care during pregnancy and the after delivery.
- The use of telephone communication may increase the duration of breastfeeding.
- The babies whose mothers received support may be less likely to be admitted to a neonatal intensive care unit.

Background

Telephone communication is increasingly being accepted as a useful form of support for health care. There is some evidence thattelephone support may be of benefit in specific areas of maternal care such as to support breastfeeding and for women at risk ofdepression. Many telephone-based interventions are currently being used in maternity care. It is of interest to examinewhich interventions may be of benefit, which are ineffective, and which may be harmful.

Question

What is the effect of telephone support during pregnancy and the first six weeks after delivery compared with routine care, on maternaland infant outcomes?

The use of telephone for women during pregnancy and postpartum in Cameroon: Telephones are not routinely used to support the provision of health care during pregnancy and after delivery. However, less than average satisfaction with care during pregnancy and after delivery suggest that there is room for improvement.

Table I: Summary of the systematic review					
	What the review authors searched	What the review authors found			
	for				
Studies	Randomized controlled trials (RCTs) and	Twenty-nine trials met the inclusion criteria			
	cluster RCTs.	for the review.			
Participants	Pregnant women and postnatal women in the	Thepregnant women or women in the early			
	first six weeks after delivery.	postpartumperiod (up to six weeks			
		postpartum)			
Interventions	All interventions aimed at supportingwomen	Nine of the trials were designed to support			
	by using telephones, whether for general	breastfeeding women.Six studies aimed to			
	support/information or for a specific	encourage women to quit smoking, or to			
	medical/social reason (e.g. diabetes, smoking).	preventsmoking relapse. Two trials focused			
	This includes studieswhere the intervention is	specifically on women at high risk of			
	introduced in pregnancy or in the first	postnataldepression.			
	sixweeks after delivery or both.	Two studies focused on women who were at			
	Interventionsmay have been in any setting and	high risk of pretermbirth and in both of these			
	delivered by healthcare staff,peer supporters	trialswomenreceived phone calls during			
	or using automated messaging.	pregnancy from trained staff.Six of the studies			
		examined more general telephone support			
Controls	No controls of a signal	interventions.			
Controls	No controls specified	No controls specified			
Outcomes	Primary outcomes	Four studies provided data onmaternal			
	I. Maternal satisfaction with support during	satisfaction with support during pregnancy and			
	pregnancy andthe first six months postpartum	thefirst six weeks post-partumfour reported			
	2. Maternal anxiety	on aternal anxiety, twoonhealth service			
	Secondary outcomes	utilization, twoonpostpartum depression,			
	Maternal outcomes	seven on smoking reduction.			
	I. Mother-infant attachment.				
	2. General health 3. Mortality and serious				
	morbidity (e.g. perinealhaematomaor deep				
	surgical infection).				
	4. Health service utilisation5. Postpartum				
	depression 6. Positive behavior change				
	e.g.smoking reduction).				
	Infant outcomes				
	I. Preterm birth/low birthweight.				
	2. Breastfeeding duration 3. Infant				
	developmental measures (physical and				
	cognitive as)				
	4. Neonatal/infant mortality.				
	5. Major neonatal/infant morbidity (e.g.				
	prolonged admission to special care baby				
	unit).				

Date of the most recent search: 23 January 2013

Limitations:This is a good quality systematic review. Due to the wide variety of outcomes it was challenging to pool many of the included studies.

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Summary of Findings

Outcomes	Relative effect (95% CI)	No of participants (studies)	Quality of the evidence (GRADE)	Comments
Maternal satisfaction with support during pregnancy and the first six months postpartum	1.16 (0.79 to 1.54)	132 (2 studies)	⊕⊕⊝⊝ Low	Most of the results of this review are derived from one or twostudies and several of the
Maternalanxiety	-0.09 (0.29 to 0.11)	386 (2 studies)	⊕⊕⊝⊝ Low	studies had small sample sizes; the
General health	0.93(0.72 to 1.21)	37 (1 study)	⊕⊕⊝⊝ Low	authors wereunable to
Health service utilisation	0.24(-0.26 to 0.74)	563 (2 studies)	⊕⊕⊝⊝ Low	pool most of the data. The
Positive behaviour change (smoking reduction)	1.12 (0.87 to 1.44)	1361 (4 studies)	⊕⊕⊝⊝ Low	outcomes and the way they were reported was not
Postpartum depression	0.65 (0.34 to 1.23)	612 (1 study)	⊕⊕⊝⊝ Low	consistent.
Preterm birth/low birth weight	0.91 (0.77 to 1.08)	3992 (4 studies)	⊕⊕⊝⊝ Low	

Applicability

In this review 13 of the studies were conducted out in the USA, 5 in Canada, 2 in Australia, 2 in England, and I each in Thailand, New Zealand, Italy, Tanzania and Scotland. Even though only one of these studies was conducted in Africa, some of these interventions can easily be applied in low resource settings.

Conclusions

Despite some encouraging findings, there is insufficient evidence to recommend routine telephone support for women accessing maternity services, as the evidence from included trials is neither strong nor consistent. Although benefits were found in terms of reduced depression scores, breastfeeding duration and increased overall satisfaction, the current trials do not provide strong enough evidence to warrant investment in resources.

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