嚼口香糖可以促進剖腹產 術後胃腸功能恢復嗎?

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前言1

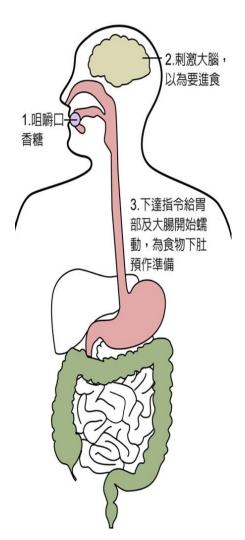
- □ 剖腹產率 35.5% (衛生福利部, 2016)
- □ 剖腹產的麻醉及 PCA 影響陽胃功能
- □術後常見陽胃道問題
 - □ 腹脹、腹痛、嘔吐、食慾不振....等
 - □ 可能增加住院時間 (Martin et al.,2015)



前言2

- □ 為促進剖腹產術後胃腸功能恢復,本單位於 2017年5月,將實證結果(提早進食)運用於剖腹 產術後進食時間改善
 - 進食時間由術後24小時縮短為8小時
 - 未因提早進食產生不良合併症,且滿意度高
- □ 腹脹情形仍普遍, 臨床做法...
- □ 嚼口香糖已經被證實是可以改善非產科腹部手 術後胃腸功能恢復(Safdari et al.,2011)
- □ 是否也可以用於促進剖腹產術後陽胃功能恢復?

脹







Search

"caesarean section" AND "gum" Filters: Meta-Analysis 不限語言及年代

3篇符合主題

Chewing gum for intestinal function recovery after caesarean section: a systematic review and meta-analysis.

Wen et al.

BMC Pregnancy Childbirth. 2017 Apr 18;17(1):105.

Chewing gum for enhancing early recovery of bowel function after caesarean section.

Pereira et al.

Cochrane Database Syst Rev. 2016 Oct 17;10:CD011562. Review.

文獻搜尋過程

J Matern Fetal Neonatal Med. 2018 Jul;31(14):1924-1932. doi: 10.1080/14767058.2017.1330883. Epub 2017 Jun 6.

Chewing gum improves postoperative recovery of gastrointestinal function after cesarean delivery: a systematic review and meta-analysis of randomized trials.

Ciardulli A¹, Saccone G², Di Mascio D³, Caissutti C⁴, Berghella V⁵.

Author information

Abstract

OBJECTIVE: To examine whether chewing gum hastens the return of gastrointestinal function after a cesarean delivery.

METHODS: All randomized controlled trials comparing the use of chewing gum in the immediate postoperative recovery period (i.e. intervention group) with a control group were included in the metaanalysis. The primary outcome was the time to first flatus in hours. Meta-analysis was performed using the random effects model of DerSimonian and Laird, to produce summary treatment effects in terms of mean difference (MD) or relative risk (RR) with 95% confidence interval (CI).

RESULTS: Seventeen trials, including 3041 women, were analyzed. Trials were of moderate to low quality with different inclusion criteria. In most of the included trials chewing gum was given right after delivery, three

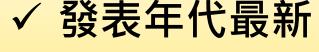
times a day for 30 min each and until the first flatu group had a significantly lower mean time to first t sounds (MD - 8.48 h, 95%CI -9.04 to -7.92), less lower time to first feces (MD - 9.57 h, 95% CI -10. 95%CI -4.93 to -0.85), less number of episodes of incidence of ileus (RR 0.39, 95%CI 0.19 to 0.80)

CONCLUSIONS: Gum chewing starting right after the first flatus is associated with early recovery of

Meta-analysis

intervention, providers should consider implementing cesarean postoperative care with gum chewing.









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JCR	OBSTETRICS &	GYNECOLOGY		•	年度影響係數IF:1.493						
Year▼	Rank	Quartile	JIF Percent								
2017	62/82	Q4	25.000	IMPACT METRICS		INFLUENCE MET	RICS	SOURCE METRICS			
2016	45/80	Q3	44.375	Total Cites	6,604	Eigenfactor	0.01800	Citable	5		
2015	47/80	Q3	41.875	Journal	\$core	Score	0.01800	Items	Э.		
2014	58/79	Q3	27.215	Impact Factor		Article Influence	0.492	% Articles in	92.3		
2013	60/78	Q4	23.718	5 Year		\$ core	0.432				
2012	49/78	Q3	37.821	Impact Factor		Normalized	2.05900	Citable Items			
2011	46/79	Q3	42.405	Immediacy		Eigenfactor	2100000	Average JIF Percentile	25.0		
2010	24/77	Q2	69.481	Index	0.551			Cited Half-Life	4		
2009	43/70	Q3	39.286	Impact Factor	1.359			Citing Half-Life	9		
2008	51/61	Q4	17.213	Without Journal Self Cites							
2007	43/60	Q3	29.167								

步驟1:系統性文獻回顧探討的問題為何?

• 研究族群/問題(P):

剖腹生產 (cesarean section)後的婦女

· 介入措施(I):

有咀嚼口香糖

• 比較(C):

無咀嚼口香糖

• 結果(O):

(主要) 術後首次排氣時間

(次要) 術後首次腸鳴音時間、排便時間

感覺飢餓時間、噁心、嘔吐

住院天數、產婦滿意度、陽阻塞發生率





步驟2:系統性文獻回顧的品質如何?

F - 研究是否找到 (Find) 所有的相關證據?

最好的狀況是?

我可以在哪裡找到這些資訊?

良好的文獻搜尋至少應包括二個主要的資料庫 (如: Medline, Cochrane 考科藍實證醫學資料 庫, EMBASE 等)·並且加上文獻引用檢索(參考 文獻中相關研究、Web of Science, Scopus 或 Google Scholar)、試驗登錄資料等。文獻搜尋 應不只限於英文·並且應同時使用 MeSH 字串 及一般檢索詞彙(text words)。 在文章的方法(Methods)章節,可以找到詳細搜尋策略的說明,包括使用的名詞,結果(Results)章節中可以找到本篇系統性文獻回顧評估的摘要及全文文獻數目、文獻納入與排除的數量及原因。資料可能會以圖表或 PRISMA 的流程圖呈現。

Materials and methods

Search strategy

This review was performed according to a protocol designed a priori and recommended for systematic review [17]. Electronic databases (i.e. MEDLINE, Scopus, ClinicalTrials.gov, EMBASE, Sciencedirect, the Cochrane Library at the CENTRAL Register of Controlled Trials, Scielo) were searched from their inception until November 2016. Search terms used were the following text words: "gum," "cesarean", "caesarean", "delivery", "labor", "labour", "chewing," "sham feeding," "general anesthesia," "morbidity," "mortality," "meta-analysis," "metaanalysis," "review," "randomized," "post-operative," "clinical trial," "randomised," "effectiveness," "guidelines," "cost," "ileus," and "clinical trial." No restrictions for language or geographic location were applied. In addition, the reference lists of all identified articles were examined to identify studies not captured by electronic searches. The electronic search and the eligibility of the studies were independently assessed by two authors (AC, GS). Differences were discussed with a third reviewer (VB).

- •文獻搜尋超過二個主要的 資料庫等,並包括試驗登 錄資料。
- •關鍵字 (gum....)
- •無語言及地理位置的限制
- •審查所有文獻的參考文獻 清單
- •兩位作者(AC, GS)獨立評估 了電子檢索和研究資格
- •與第三位評論員(VB)討論 差異

步驟2:系統性文獻回顧的品質如何?

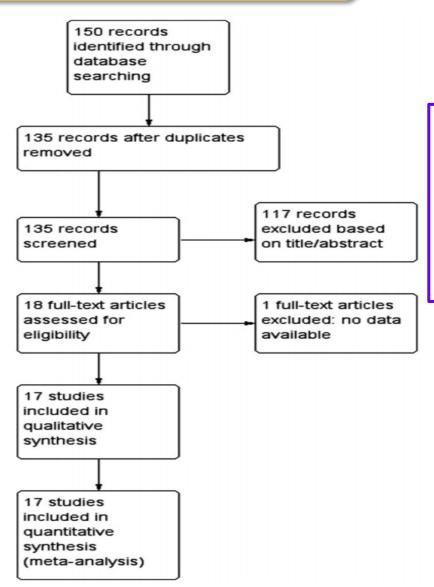
大部分產婦是計畫性剖腹產

排除:早產、緊急剖腹產、子宮切除、慢性疾病、高危險妊娠、產前出血、輸血、術後進ICU、多胞胎、化療

Table 2. Inclusion and exclusion criteria.

	Inclusion criteria	Exclusion criteria
Satij [19]	Women at term undergoing planned CD	Preterm, emergency CD
Liang [23]	Women undergoing CD	Not reported
Akhlaghi [15]	Women at term undergoing planned CD	Preterm, emergency CD
Abd-El-Maeboud [14]	Women at term undergoing planned CD under general anesthesia	Preterm, emergency CD, spinal anesthesia, cesarean hysterectomy, prior abdominal surgery
₋uo [<mark>21</mark>]	Women undergoing CD	Not reported
.u [22]	Women undergoing CD	Not reported
Kafali [11]	Women undergoing planned or emergency CD	Chronic medical disorders, high risk pregnancy, ante- partum hemorrhage, blood transfusion, postopera- tive admission to intensive care unit
Shang [13]	Women at term undergoing planned or emergency CD	Preterm, preexisting gastrointestinal disorders, blood transfusion
Garshasbi [12]	Women planned or emergency CD	Not reported
Dehcheshmeh [4]	Primiparous women at term undergoing planned CD	Preterm, emergency CD, multiparous
Vang [20]	Women undergoing CD	Not reported
.edari [9]	Women at term undergoing planned or emergency CD with prior CD	Preterm, primiparous, prior abdominal surgery
Zamora [10]	Women at term undergoing planned or emergency CD	Preterm
Rashad [6]	Women at term undergoing planned or emergency CD	Preterm
_edari [7]	Primiparous women at term undergoing planned or emergency CD	Preterm, multiparous, prior abdominal surgery
Jakkaew [8]	Women at term undergoing planned or emergency CD	Preterm, cesarean hysterectomy, recent chemotherapy postoperative admission to intensive care unit
Ajuzieogu [5]	Primiparous women at term undergoing planned CD	Preterm, emergency CD, multiparous, prior abdominal surgery, diabetic, hypothyroid, women who were on opioids

Data are presented as total number (number in the intervention versus number in the control group). CD: cesarean delivery.



使用PRISMA流程圖呈獻文獻篩 選過程:

- ▶ 150篇刪除重複的文獻餘135篇
- 其中117篇標題與摘要不符合餘18篇
- 其中1篇不包含全文無可用數據
- 最後納入17篇進行統合分析



Figure 1. Flow diagram of studies identified in the systematic review. Prisma template (Preferred Reporting Item for Systematic Reviews and Meta-analyses).

P.1927

[!]點 人數 開始 數量 時間 停止 飲食 下床 灌腸 曾經 曾經 麻醉

Table 1. Characteristics of the included studies. Chewing Chewing Need for Prior Prior Study Chewing gum Times Out of bed abdominal gum Chewing gum Postoperative intestinal cesarean Type of location Simple size gum Start Duration End diet policy delivery anesthesia Primary outcome^a per day enema surgery USA Satij [19] 32 (15 ver-From Three 30 min First flatus or Not reported Not reported Not reported Not reported Not reported Spinal anesthe-Evaluate the effect of the defecation sus 17) delivery gum chewing on the sia, or gen-美國 eral return of bowel funcanesthesia tion in cesarean delivery patients Three Liang [23] China 120 (60 ver-From 15 min First flatus Not reported Not reported Not reported Not reported Not reported Not reported Time to first flatus, to sus 60) delivery first bowel movement. 中國 complications, tolerability of gum Akhlaghi [15] Iran 400 (200 From Three 45 min First flatus Not reported Not reported Not reported To investigate the effect Not reported Not reported Not reported delivery of gum chewing as versus 伊朗 200) false nutrition on the bowel movement and prevention of post cesarean ileus Abd-El-Maeboud 200 (93 ver-From 2h Every 2h 15 min First flatus Oral intake of 3/93 versus General To test the hypothesis Egypt Not reported Not reported Not reported clear fluids [14] sus 107) during 11/107 anesthesia that gum chewing postoper-埃及 atively daytime and soft would enhance rapid foods began return of bowel motility after elective cesarafter passage of first flatus ean section Luo [21] China 300 (150 From 2 h Four 10-15 min 3 days after CS Not reported Not reported Not reported Not reported Time to first bowel flatus. Not reported Not reported versus postoperfirst bowel movement, 150) atively first bowel sound and complications 97 (47 ver-Lu [22] China From 2h 30-40 min First flatus Not reported Not reported Every 2 h (at Not reported Not reported Not reported Not reported Time to first flatus, time sus 50) postoperleast 6 h to first bowel atively chewing) movement Kafali [11] 150 (74 ver-From 2h Three 1° 15 min; First flatus Oral fluids 6h If no flatus 28/74 versus 22/74 versus Spinal anesthe-Turkey Early ambulation To assess the effects of then 1h in the 22/76 20/76 gum chewing on sus 76) postoperafter surgery, encouraged sia, or genatively irrespective of first 48h eral post-operative bowel return of anesthesia function after cesarpostoperbowel sound. atively ean section Oral food after 24h on detection of bowel sounds on auscultation China 386 (195 From Defecation of Oral intake of 34/195 ver-Shang [13] Three 30 min Early ambulation Not reported Not reported Spinal anesthesia Time to first operative versus delivery discharge clear fluids encouraged sus 30/ passage of flatus 191) 191 and soft foods after first flatus Garshasbi [12] 500 (238 From Three At least Until start of Not reported To determine whether Iran Not reported Not reported Not reported Not reported Not reported delivery 30 min regular diet gum chewing in the versus 262) immediate postoperative period facilitated recovery from ileus following cesarean section

P.1928

扁	地點	人數	開始	數量	時間	停止	飲食	下床	灌腸	曾經	曾經	麻醉	成果
Table 1. Co	ntinued									C/S	<u>開腹</u>		
	Study location	Simple size	Chewing gum Start	Chewing gum Times per day	Chewing gum Duration	Chewing gum End	Postoperative diet	Out of bed policy	Need for intestinal enema	Prior cesarean delivery	Prior abdominal surgery	Type of anesthesia	Primary outcome ^a
Dehcheshmeh [4]	Iran	120 (60 ver- sus 60)	From delivery	Four	-	First flatus or defecation	Not reported	Not reported	Not reported	0/60 versus 0/60	Not reported	Spinal anesthesia	To assess the effects of chewing of sugar free gum after elective cesarean delivery of return of bowel func- tion in primiparous women
Wang [20]	China	233 (116 versus 117)	From 2 h postoper- atively	Every 2 h during day time	15 min	First flatus	Not reported	Not reported	Not reported	Not reported	Not reported	Spinal anesthesia	Time to first flatus
Ledari [9]	Iran	100 (50 ver- sus 50)	From 6 h postoper- atively	Three	At least 1 h	Discharge	Not reported	Not reported	Not reported	50/50 versus 50/50	Not reported	Spinal anesthesia	To evaluate the effect of chewing gum on the recovery of bowel function after cesar- ean section
Zamora [10]	斯律	53 (18 ver- sus 35) 宣	From 12 h postoper- atively	-	15 min	First flatus	Not reported	Not reported	Not reported	Not reported	Not reported	Spinal anesthesia	To compare the effects of post-operative gum chewing with trad- itional feeding on the early return of bowel motility after cesarean delivery
Rashad [6]	Egypt	60 (30 ver- sus 30)	From delivery	Three	30 mi	Discharge	Not reported	Not reported	Not reported	Not reported	Not reported	Spinal anesthe- sia, or gen- eral anesthesia	To identify the effect of sugarless chewing gum on intestinal movement after cesar- ean section
Ledari [7]	Iran	60 (30 ver- sus 30)	From 6 h postoper- atively	Three	1 h	Discharge	Not reported	Not reported	Not reported	0/30 versus 0/30	0/30 versus 0/30	Spinal anesthesia	To investigate the effect of gum chewing on the return of intestinal function in women with cesarean section
Jakkaew [8]	Thailand 泰國	50 (25 ver- sus 25)	From delivery	Four	30 min	First flatus	Oral intake of clear fluids and soft foods after first flatus	Not reported	Not reported	4/25 versus 8/25	0/25 versus 1/25	Spinal anesthe- sia, or gen- eral anesthesia	To evaluate the effect of gum chewing on recovery of bowel function after cesar- ean section
Ajuzieogu [5]	Nigeria 奈及	180 (90 ver- sus 90) 利亞	From the first day postoper- atively	Three	30 min	5 days	Not reported	Not reported	Not reported	0/90 versus 0/90	0/90 versus 0/90	Spinal anesthesia	To identify the effect of chewing gum on dur- ation of post opera- tive ileus following cesarean section

Data are presented as total number (number in the intervention versus number in the control group). ^aWhen the primary outcome was not specifically stated, all listed outcomes were included in this table.

