

CORRECTION

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Correction: Menstrual cup and risk of IUD expulsion – a systematic review

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Correction: Contracept Reprod Med 8, 15 (2023)
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Following publication of the original article [1], the authors reported that the Tables 1 and 2 were mistakenly listed.

The original article can be found online at <https://doi.org/10.1186/s40834-022-00203-x>.

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The correct Table 1 should read:

Table 1 Characteristics of included studies

Reference Number	Study Title	First Author and Year	Journal	Location of Participant Recruitment	Study Design	Reference number of articles included in systematic review	Study conclusions
Original Research Studies							
16	Does using tampons or menstrual cups increase early IUD expulsion rates?	E.R. Wiebe 2012	Contraception	Canada	Retrospective chart review	n/a	No difference in IUD expulsion rates between menstrual cup and sanitary pad (p=0.92) or tampon (p=0.57) use
18	Do menstrual cups increase risk of IUD expulsion? A survey of self-reported IUD and menstrual hygiene product use in the United States	A.N. Schnyer 2019	European Journal of Contraception and Reproductive Health Care	USA	Internet based cross sectional survey	n/a	Significant positive association between concomitant cup and IUD use and IUD expulsions (OR: 2.75, 95% CI: 1.40–5.42, p = .002) and no association between IUD expulsion and other menstrual products
19	Menstrual cup use and intrauterine device expulsion in a copper intrauterine device contraceptive efficacy trial	J. Long 2020	Obstetrics and Gynaecology	USA	Randomised control trial abstract	n/a	Significant increase in Cu-IUD expulsion rate amongst menstrual cup users in comparison to non-users (OR: 3.81, 95% CI 2.45- 5.92) at the end of year 2. Nine months after initial enrolment, study protocol was altered to advise participants against menstrual cup use with IUD in-situ
Case Reports							
20	Unintentional IUD expulsion with concomitant menstrual cup use: a case series	R. Seale 2019	Contraception	USA	Case reports	n/a	Potential association between menstrual cup use and IUD expulsion which might need further study. Women with IUDs might need to consider an alternative
21	Is there inadequate awareness amongst patients and medical students of the risks of concurrent menstrual cup and IUD/IUS usage?	K. Ruddock-Ward 2020	European Journal of Contraception and Reproductive Health Care	UK	Letter to editor: Case reports	n/a	A higher risk of expulsion was found among intrauterine device [and menstrual cup] users
Systematic Reviews							
1	Menstrual cup use, leakage, acceptability, safety and availability: a systematic review and meta-analysis	A.M. van Eijk 2019	Lancet Public Health	n/a	Systematic review and meta-analysis	16, 20	n/a
22	Acceptability and safety of the menstrual cup: A systematic review of the literature	C. Arenas-Gallo 2019	Revista Colombiana de Obstetricia y Ginecología	n/a	Systematic review	16, 20, 21	n/a

The correct Table 2 should read:

Table 2 Rate of expulsion and cohort characteristics

Reference number	Study title	Sample size	Rate of IUD expulsion in concomitant menstrual cup users	Rate of IUD expulsion in non-cup users	Number of IUD expulsions experienced in menstrual cup users	Number of IUD expulsions experienced in non-cup users	Cohort mean age (and age range if stated) in years	Follow up period	Loss to follow-up	Confirmation of IUD expulsion	IUD type of menstrual cup users
Original Research Studies											
16	Does using tampons or menstrual cups increase early IUD expulsion rates?	743	3.7% (n=135)	2.4% in tampon users (n=469) 3.8% in sanitary pad users (n=293)	5	11 in tampon users 11 in sanitary pad users	28.8	6-8 weeks	23.2%	Endovaginal ultrasound scan in 711 cases. Followed up by telephone or email if not scanned.	Hormonal IUD (n=35) Cu-IUD (n=61)
18	Do menstrual cups increase risk of IUD expulsion? A survey of self-reported IUD and menstrual hygiene product use in the United States	902	18.6% (n=71)	7.7% (n=562)	13	43	34 (18-49)	Not stated	Not stated	Self-reported	Hormonal IUD (n=52) Cu-IUD (n=27)
19	Menstrual cup use and intrauterine device expulsion in a copper intrauterine device contraceptive efficacy trial	1092	17.3% (n=266)	6.5% (n=826)	46	43	n/a	12 months	Not stated	Not stated	Cu-IUD (n=1092)
Case Reports											
20	Unintentional IUD expulsion with concomitant menstrual cup use: a case series	7	n/a	n/a	10	n/a	22 (16-26)	1 week – 13 months	Not stated	5 self-reported 4 confirmed by ultrasound 1 confirmed by medical provider	Hormonal IUD (n=6) Cu-IUD (n=1)
21	Is there inadequate awareness amongst patients and medical students of the risks of concurrent menstrual cup and IUD/IUS usage?	2	n/a	n/a	2	n/a	23	30 months	Not stated	1 self-reported 1 confirmed by ultrasound	Cu-IUD (n=2)

The original article [1] has been updated.

Reference

- Bowman N, Thwaites A. Menstrual cup and risk of IUD expulsion – a systematic review. *Contracept Reprod Med*. 2023;8:15. <https://doi.org/10.1186/s40834-022-00203-x>.

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