

## **Uterine or paracervical lidocaine application for pain control during intrauterine contraceptive device insertion: a meta-analysis of randomised controlled trials**

Item Type	info:eu-repo/semantics/article
Authors	Perez-Lopez, Faustino R.; Martinez-Dominguez, Samuel J.; Perez-Roncero, Gonzalo R.; Hernandez, Adrian V.
DOI	<a href="https://doi.org/10.1080/13625187.2018.1469124">10.1080/13625187.2018.1469124</a>
Publisher	Taylor and Francis Ltd
Journal	European Journal of Contraception and Reproductive Health Care
Rights	info:eu-repo/semantics/embargoedAccess
Download date	12/03/2022 10:21:37
Link to Item	<a href="http://hdl.handle.net/10757/624644">http://hdl.handle.net/10757/624644</a>

## Uterine or paracervical lidocaine application for pain control during intrauterine contraceptive device insertion: a meta-analysis of randomised controlled trials(Review)

- Perez-Lopez, F.R.<sup>a,b</sup>Email Author,
- Martinez-Dominguez, S.J.<sup>b</sup>,
- Perez-Roncero, G.R.<sup>b</sup>,
- Hernandez, A.V.<sup>c,d</sup>
- [View Correspondence \(jump link\)](#)
- <sup>a</sup>Department of Obstetrics and Gynecology, University of Zaragoza Faculty of Medicine, Hospital Clinico Lozano-Blesa, Zaragoza, Spain
- <sup>b</sup>Red de Investigacion de Ginecologia, Obstetricia y Reproduccion, , Instituto Aragonés de Ciencias de la Salud (IACS), Zaragoza, Spain
- <sup>c</sup>University of Connecticut/Hartford Hospital Evidence-based Practice Center, Hartford, CT, United States

[View additional affiliations\\_](#)

Abstract\_ [View references \(35\)](#)

**Objective:** Systematic review and meta-analysis to assess the effects of uterine or paracervical lidocaine application on pain control during IUD insertion. **Methods:** PubMed and five other electronic research databases were searched through 15 November 2017 for RCTs comparing lidocaine treatment vs. a control (placebo or no-intervention) to prevent pain during IUD insertion. Searched terms included 'IUD insertion', 'lidocaine' and 'randomised controlled trial'. RCTs evaluating lidocaine treatment before IUD insertion without restriction of language, age and IUD type. Pain measured by visual pain scales at tenaculum placement, IUD insertion and immediate post-IUD insertion. Results of random effects meta-analyses were reported as mean differences (MDs) of visual pain scale (VPS) scores and their 95% confidence intervals (CIs). **Results:** Eleven RCTs (n = 1458 women) reporting paracervical lidocaine block or uterine mucosa lidocaine application before IUD insertion. Lidocaine produced lower VPS scores during tenaculum placement (MD -0.99, 95% CI: -1.73 to -0.26), IUD insertion (MD -1.26, 95% CI: -2.23 to -0.29) and immediate post-IUD insertion period (MD -1.25, 95% CI: -2.17 to -0.33). **Conclusion:** Lidocaine treatment was associated with modest reduction of pain during tenaculum placement and after IUD insertion. © 2018, © 2018 The European Society of Contraception and Reproductive Health.

SciVal Topic Prominence

Topic: [Contraception](#) | [Contraceptive Agents](#) | [reversible contraceptive](#)  
Prominence percentile: 98.886

## Reaxys Database Information

 [View Compounds](#)

### Author keywords

Genital painintrauterine contraceptive deviceIUD insertionlevonorgestrel  
intrauterine systemlidocainepain visual scaleprilocaine

### Indexed keywords

EMTREE drug terms: lidocainelidocaine plus prilocaineplacebo

EMTREE medical terms: analgesiacomparative effectivenesscontrolled studyendometriumfemalegenital  
comparisonmeta analysisparacervical blockpriority journalrandomized contro  
reviewvisual analog scale

### Chemicals and CAS Registry Numbers:

lidocaine, 137-58-6, 24847-67-4, 56934-02-2, 73-78-9; lidocaine plus prilocaine,  
101362-25-8

- **ISSN:** 13625187
- **CODEN:** ECRCF
- **Source Type:** Journal
- **Original language:** English
- **DOI:** 10.1080/13625187.2018.1469124
- **Document Type:** Review
- **Publisher:** Taylor and Francis Ltd