

Log in



FULL LENGTH ARTICLE | VOLUME 120, ISSUE 2, P273-280, SEPTEMBER 15, 1974

# Continuous extraovular administration of prostaglandin F<sub>2α</sub> for midtrimester abortion

Niels H. Lauersen, M.D. • Kathleen H. Wilson, B.S. DOI: [https://doi.org/10.1016/0002-9378\(74\)90375-5](https://doi.org/10.1016/0002-9378(74)90375-5)

## Abstract

Midtrimester abortion was successfully induced in 74 of 76 patients by a continuous extraovular administration of prostaglandin F<sub>2α</sub> (PGF<sub>2α</sub>) via a constant-infusion pump. Two patients in the thirteenth and fourteenth weeks of gestation failed to abort despite good uterine activity. The mean abortion time for the successful inductions was 16.21 hours. Parous patients aborted somewhat faster than nulliparous patients, but the difference was not statistically significant. All patients were monitored throughout the abortion procedure, and uterine activity was calculated and analyzed. Uterine activity developed within 15 minutes of PGF<sub>2α</sub> instillation and showed the characteristic uterine response to prostaglandin with a sharp rise in intrauterine tonus. The gastrointestinal side effects in this series were much less than those reported for intra-amniotic instillation of prostaglandin, and there was good patient tolerance of the procedure. The main complication of extraovular administration of PGF<sub>2α</sub> for midtrimester abortion was endometritis, which occurred in 7 patients. The patients who developed endometritis had, as a group, longer abortion times (mean 28 hours). Three patients with severe pre-eclampsia and intrauterine death in the third trimester also had successfully induced labor with extraovular administration of PGF<sub>2α</sub>. The method of PGF<sub>2α</sub> administration in this series was found to have a high success rate, good patient tolerance, and fewer side effects than when abortion was induced by intra-amniotic instillation of PGF<sub>2α</sub>.

To read this article in full you will need to make a payment

Purchase one-time access

Subscribe to *American Journal of Obstetrics & Gynecology*

Already a print subscriber? [Claim online access](#)

Already an online subscriber? [Sign in](#)



Register: [Create an account](#)



Institutional Access: [Sign in to ScienceDirect](#)

## References

1. Karim S.M. • Filshie G.M.  
*Lancet.* 1970; 1: 157  
[Scopus \(233\)](#) • [PubMed](#) • [Abstract](#) • [Google Scholar](#)
2. Roth-Brandel V. • Bygdeman M. • Wiquist N. • Bergstrom S.  
*Lancet.* 1970; 1: 190  
[Scopus \(71\)](#) • [PubMed](#) • [Abstract](#) • [Google Scholar](#)
3. Wiquist N. • Bygdeman M.  
*Lancet.* 1970; 2: 716  
[Scopus \(64\)](#) • [PubMed](#) • [Abstract](#) • [Google Scholar](#)
4. Embrey M.P. • Hiller K.  
*Br. Med. J.* 1971; 1: 588  
[Scopus \(73\)](#) • [PubMed](#) • [Crossref](#) • [Google Scholar](#)
5. Lauersen N.H. • Wilson K.H.  
*Lancet.* 1973; 1: 1195  
[Scopus \(1\)](#) • [PubMed](#) • [Abstract](#) • [Google Scholar](#)
6. Lauersen N.H. • Wilson K.H.  
*Am. J. Obstet. Gynecol.* 1974; 118: 210  
[PubMed](#) • [Abstract](#) • [Full Text PDF](#) • [Google Scholar](#)
7. Embrey M.P. • Morrison D.L.  
*J. Obstet. Gynaecol. Br. Commonw.* 1968; 75: 829  
[Scopus \(51\)](#) • [PubMed](#) • [Crossref](#) • [Google Scholar](#)

*Am. J. Obstet. Gynecol.* 1972; **114**: 511

[Scopus \(10\)](#) • [PubMed](#) • [Abstract](#) • [Full Text PDF](#) • [Google Scholar](#)

9. Csapo A.I. • Ruttner B. • Wiest W.G.

*Prostaglandins.* 1972; **1**: 365

[Scopus \(20\)](#) • [PubMed](#) • [Crossref](#) • [Google Scholar](#)

10. Miller A.W.F. • Calder A.A. • Macnaughton M.C.

*Lancet.* 1972; **2**: 5

[Scopus \(34\)](#) • [PubMed](#) • [Abstract](#) • [Google Scholar](#)

11. Midwinter A. • Shepherd A. • Bowen M.

*J. Obstet. Gynaecol. Br. Commonw.* 1973; **80**: 371

[Scopus \(18\)](#) • [PubMed](#) • [Crossref](#) • [Google Scholar](#)

12. Brenner W.E. • Hendricks C.H. • Braaksma J.T. • Fishburne J.I. • Kroncke F.G. • Staurovsky L.

*Am. J. Obstet. Gynecol.* 1972; **114**: 781

[Scopus \(24\)](#) • [PubMed](#) • [Abstract](#) • [Full Text PDF](#) • [Google Scholar](#)

## Article Info

### Publication History

Accepted: February 27, 1974

Received: January 21, 1974

### Footnotes

☆Supported in part by Grant 67-032 from the Rockefeller Foundation and The Upjohn Co., 7171 Portage Rd., Kalamazoo, Michigan 49001.

### Identification

DOI: [https://doi.org/10.1016/0002-9378\(74\)90375-5](https://doi.org/10.1016/0002-9378(74)90375-5)

### Copyright

© 1974 Published by Elsevier Inc.



[Access this article on ScienceDirect](#)

## Related Articles

[Evaluation of guidelines for observational management of cervical intraepithelial neoplasia 2 in young women](#)

*American Journal of Obstetrics & Gynecology*

[In Brief](#) • [Full-Text](#) • [PDF](#)

[Surgical management of neuroproliferative-associated vestibulodynia: a tutorial on vestibulectomy with vaginal advancement flap](#)

*American Journal of Obstetrics & Gynecology*, Vol. 221, Issue 5

[In Brief](#) • [Full-Text](#) • [PDF](#)

[77: Bladder management following vaginal surgery for pelvic organ prolapse](#)

*American Journal of Obstetrics & Gynecology*, Vol. 214, Issue 4

[In Brief](#) • [Full-Text](#) • [PDF](#)

[A stepwise approach for the management of short cervix: time to evolve beyond progesterone treatment in the presence of progressive cervical shortening](#)

*American Journal of Obstetrics & Gynecology*, Vol. 220, Issue 4

[In Brief](#) • [Full-Text](#) • [PDF](#)

[Diagnosis and management of vasa previa](#)

*American Journal of Obstetrics & Gynecology*, Vol. 214, Issue 6

[In Brief](#) • [Full-Text](#) • [PDF](#)

[Confined placental trisomy detection through cell-free DNA in the maternal circulation: Benefit for pregnancy management](#)

*American Journal of Obstetrics & Gynecology*, Vol. 221, Issue 3

[In Brief](#) • [Full-Text](#) • [PDF](#)

[Management of premature rupture of membranes at term: the need to correct a recurring mistake in articles, chapters, and recommendations of professional organizations](#)

*American Journal of Obstetrics & Gynecology*, Vol. 217, Issue 6

[In Brief](#) • [Full-Text](#) • [PDF](#)



[to the Editor: Reply to "Safety and varicella outcomes after varicella zoster immune globulin administration"](#)



[59: Management and gynecologic sequelae of vulvovaginal involvement in Stevens-Johnson syndrome](#)

*American Journal of Obstetrics & Gynecology*, Vol. 222, Issue 3

[In Brief](#) • [Full-Text](#) • [PDF](#)

[Surgery is not superior to dilation for the management of vaginal agenesis in Mayer-Rokitansky-Küster-Hauser syndrome: a multicenter comparative observational study in 131 patients](#)

*American Journal of Obstetrics & Gynecology*, Vol. 219, Issue 3

[In Brief](#) • [Full-Text](#) • [PDF](#)

<a href="#">Home</a>	<a href="#">Focus on Intrauterine Devices</a>	<a href="#">Permission to Reuse Published Material</a>	<a href="#">Career Opportunities</a>	<a href="#">SMFM Documents by Year</a>
<b>ARTICLES &amp; ISSUES</b>			<a href="#">Contact Information</a>	
<a href="#">Articles Online First</a>	<a href="#">Giants in Obstetrics and Gynecology</a>	<a href="#">Researcher Academy</a>	<a href="#">Editors and Editorial Board</a>	<a href="#">SMFM Documents by Subject</a>
<a href="#">Current Issue</a>	<a href="#">MOC Part II</a>	<a href="#">Submit Your Manuscript</a>		<b>SOCIETY INFO</b>
<a href="#">List of Issues</a>	<a href="#">Press Releases</a>	<b>JOURNAL INFO</b>	<a href="#">In Our Third Century</a>	<a href="#">Affiliates and Papers</a>
<a href="#">Supplements</a>	<a href="#">Reports of Major Impact</a>	<a href="#">About Open Access</a>	<a href="#">Information for Advertisers</a>	<a href="#">SMFM Supplements</a>
<b>COLLECTIONS</b>	<a href="#">SMFM Supplements</a>	<a href="#">About the Journal</a>	<a href="#">Mobile Access</a>	<b>MULTIMEDIA</b>
<a href="#">AJOG Citation Classics</a>	<b>FOR AUTHORS</b>	<a href="#">Activate Online Access</a>	<a href="#">New Content Alerts</a>	<a href="#">AGOS Talks</a>
<a href="#">AJOG Eponyms</a>	<a href="#">About Open Access</a>	<a href="#">Advisory Board</a>	<a href="#">Pricing</a>	<b>FOLLOW US</b>
<a href="#">Editors' Choice</a>	<a href="#">Information for Authors</a>	<a href="#">Affiliated Societies and Meeting Papers</a>	<a href="#">Subscribe</a>	<a href="#">Facebook</a>
			<b>SMFM DOCUMENTS</b>	<a href="#">Twitter</a>

We use cookies to help provide and enhance our service and tailor content and ads. By continuing you agree to the [use of cookies](#).  
Copyright © 2020 Elsevier Inc. except certain content provided by third parties.

