



Early Pregnancy Loss: Medication Management

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EPL Management: Options for the clinically stable patient

Expectant

Medication

Office-based
aspiration

Operating room
aspiration

- ◀ PreFaiR trial
 - ◀ RCT established the most effective medication management
 - ◀ Mifepristone pre-treatment followed by misoprostol



Medication Management



- ◀ Misoprostol
 - ◀ Prostaglandin analogue
 - ◀ Stimulates uterine contractions & softens cervix
 - ◀ Inexpensive, easy storage
- ◀ Mifepristone
 - ◀ Progesterone and glucocorticoid receptor antagonist
 - ◀ Primes myometrium and cervix for prostaglandin
 - ◀ Requires REMS certification with the FDA
 - ◀ Low NNT for EPL: 6 doses to achieve 1 more success



PreFaiR Trial (Schreiber et al 2018)

- ◀ RCT, N=300
- ◀ EPL diagnosed at 5-12 weeks GA
- ◀ Mifepristone pre-treatment + Miso vs. Misoprostol alone
- ◀ Primary outcome = complete EPL at first follow-up (day 1 after miso)

PreFaiR Trial Results (Schreiber 2018)

	Mife-Pretreatment (N=148)	Misoprostol-Alone (N=149)	Relative Risk (95% CI)
Complete* by the 1st follow-up = treatment success	124 (83.8)	100 (67.1)	1.25 (1.09–1.43) <i>P</i> <0.001
Complete* by the 2nd follow-up (day 8)	132 (89.2)	111 (74.5)	1.20 (1.07–1.33)
Complete* by 30-day telephone call	135 (91.2)	113 (75.8)	1.20 (1.08 –1.33)
Uterine Aspiration	13 (8.8)	35 (23.5)	0.37 (0.21–0.68)

Medication Management for EPL

Incomplete miscarriage	Miso 400 mcg SL - or - 600 mcg PO
All other types of EPL (Anembryonic gestation, embryonic or fetal demise)	1. Mifepristone 200 mg PO 2. Misoprostol 800 mcg vaginally (PV) 24 hrs later
No Initial Response	Misoprostol 800 mcg PV only, with repeat dose 24-48 hrs later if no initial response



Medication Management: Practice Integration

- ◀ Dispense misoprostol directly or prescribe?
 - ◀ Indicate EPL diagnosis on Rx

- ◀ Register as a REMS provider to dispense mifepristone?
 - ◀ Complete application with FDA
 - ◀ Complete both Prescriber and Patient Agreements



Medication Management: Practice Integration

- ◀ 24 hour call service?
- ◀ Back-up plan for uterine aspiration?
 - ◀ Emergent vs. non-urgent



Mifepristone pretreatment is cost-effective

- ◀ Addition of mifepristone pretreatment reduces need for follow-up or additional interventions
- ◀ “Good value” for patients
- ◀ Cost effective up to \$293/pill



Medication Management for EPL

- ◀ Integration of medication management increases access and options for this preference-sensitive decision
- ◀ Addition of mifepristone to misoprostol increases efficacy and is cost-effective