

FIBRINOGEN CONCENTRATE: RiaSTAP

WHAT IT IS: Pooled, human-derived, lyophilized fibrinogen

INDICATIONS: Post-partum hemorrhage (PPH) with suspected or known DIC or low fibrinogen

Likely indications: placental abruption, AFE, major hemorrhage

Unlikely indications: uterine atony, surgical trauma, vaginal tract trauma

WHERE TO GET IT: Omnicell in H22, 6G, OR core; Inpatient pharmacy

HOW TO RECONSTITUTE RiaSTAP FOR IMMEDIATE USE:

- Add 50 mL sterile **WATER** to a vial (included with the RiaSTAP)
- **SWIRL** the vial very gently or invert end over end (*Do NOT* shake!! The agitation causes bubbles, which delay administration)
- Infuse over 10 minutes
- Allergic reaction has been reported, but it is very rare
- Reconstituted vials expire after 8 hours at room temperature and must be protected from light

INFUSION TRIGGER:

- Consider use at the time you initiate transfusion of a **third** unit of product (including PRBC, plasma, cryoprecipitate)
- At your clinical discretion during a high blood loss case where other PPH medications (oxytocin, methergine, misoprostol, and hemabate) and OB procedures are not stopping blood loss

DOSING EQUIVALENTS:

2 g fibrinogen = 2 vials RiaSTAP = 2-4 bags FFP = 10-20 cryo units (1-2 pools)

CRYOPRECIPITATE

- type and screen needed
- 30 minutes to thaw once ordered
- 5 + 5 pooled cryo = 2 g fibrinogen
- volume 250 mL
- risk of infectious transmission

RiaSTAP

- no type and screen needed
- immediately available from Omnicell/inpt pharm
- two vials of RiaSTAP = 2 g fibrinogen
- volume 100 mL
- little risk of infectious transmission

References

1. Charbit et al. 2007 *J Thromb Haemost*: fibrinogen levels of ≤ 200 mg/dL correlate highly with progression to severe PPH.
2. Weinkove et al. 2008 *Transfus Med*; Fenger-Eriksen et al. 2008 *BJA*: Fibrinogen concentrate 1 g raises serum fibrinogen 25-50 mg/dL (depending on degree of ongoing fibrinolysis, hemodilution).
3. Wikkelsø A et al. 2015 *BJA*. Fibrinogen 2 g raised serum fibrinogen by 40 mg/dL.

****To increase serum fibrinogen by 100 mg/dL, administer 2-4 g fibrinogen concentrate.**