

Delivery After Amniotic Fluid Embolism: Should We Prepare for Recurrence?

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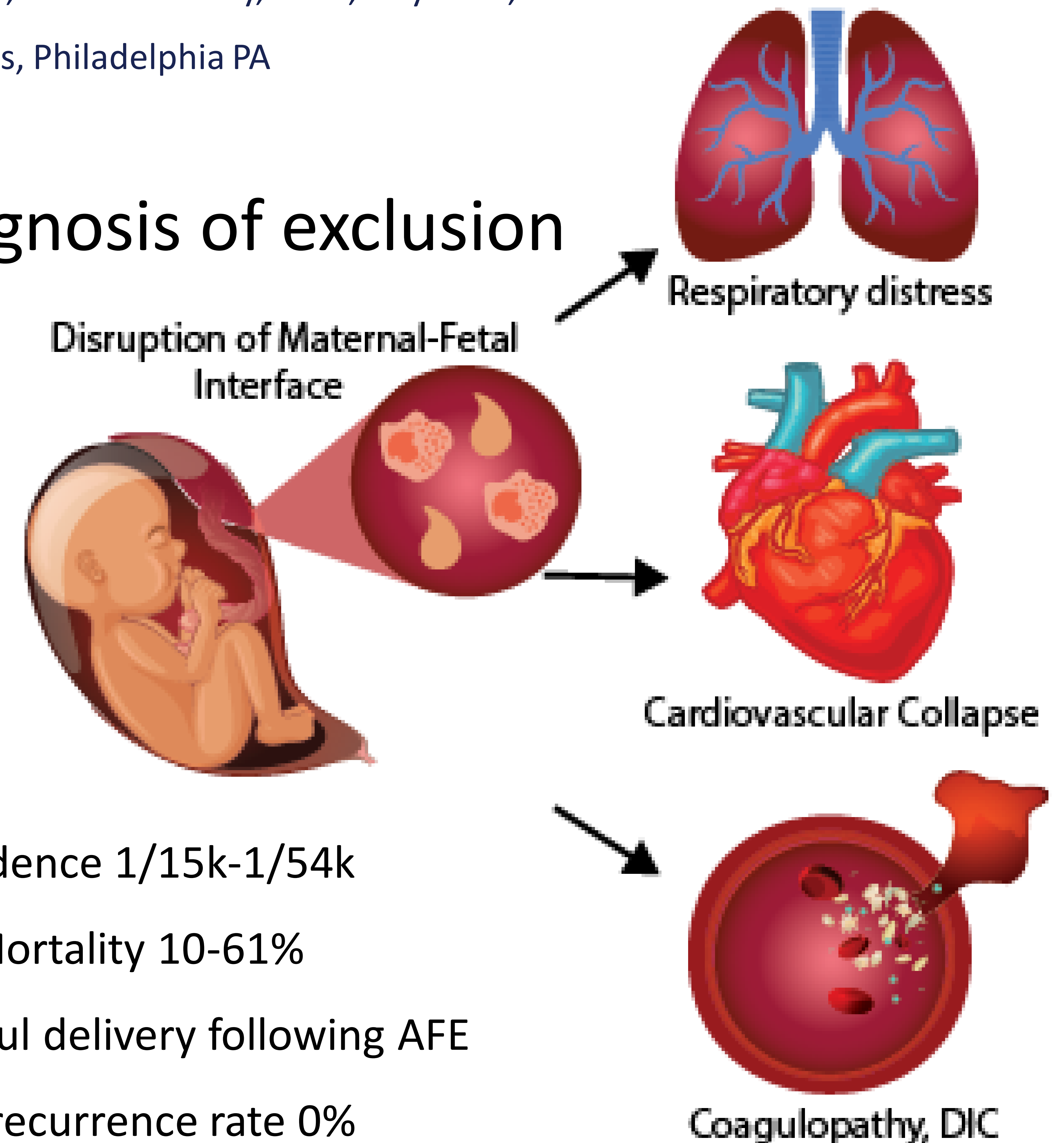
Prime Delivery Complicated by AFE

4 years ago: 29 yo G1P0 presents for IOL 2/2 gHTN
SROM c/b decreased FHR, maternal unresponsiveness
GA C/S within 5 minutes c/b PEA arrest
ACLS initiated

Signs and symptoms of DIC with initiation of MTP
Resuscitation with vasopressors, blood, NO, epoprostenol
Intra-op TEE showed Right Heart Failure
ROSC obtained in 30 minutes

POD #2, CPB for thrombectomy of clot from IVC/RA/RV
Mother and baby doing well by POD #3

AFE is a diagnosis of exclusion



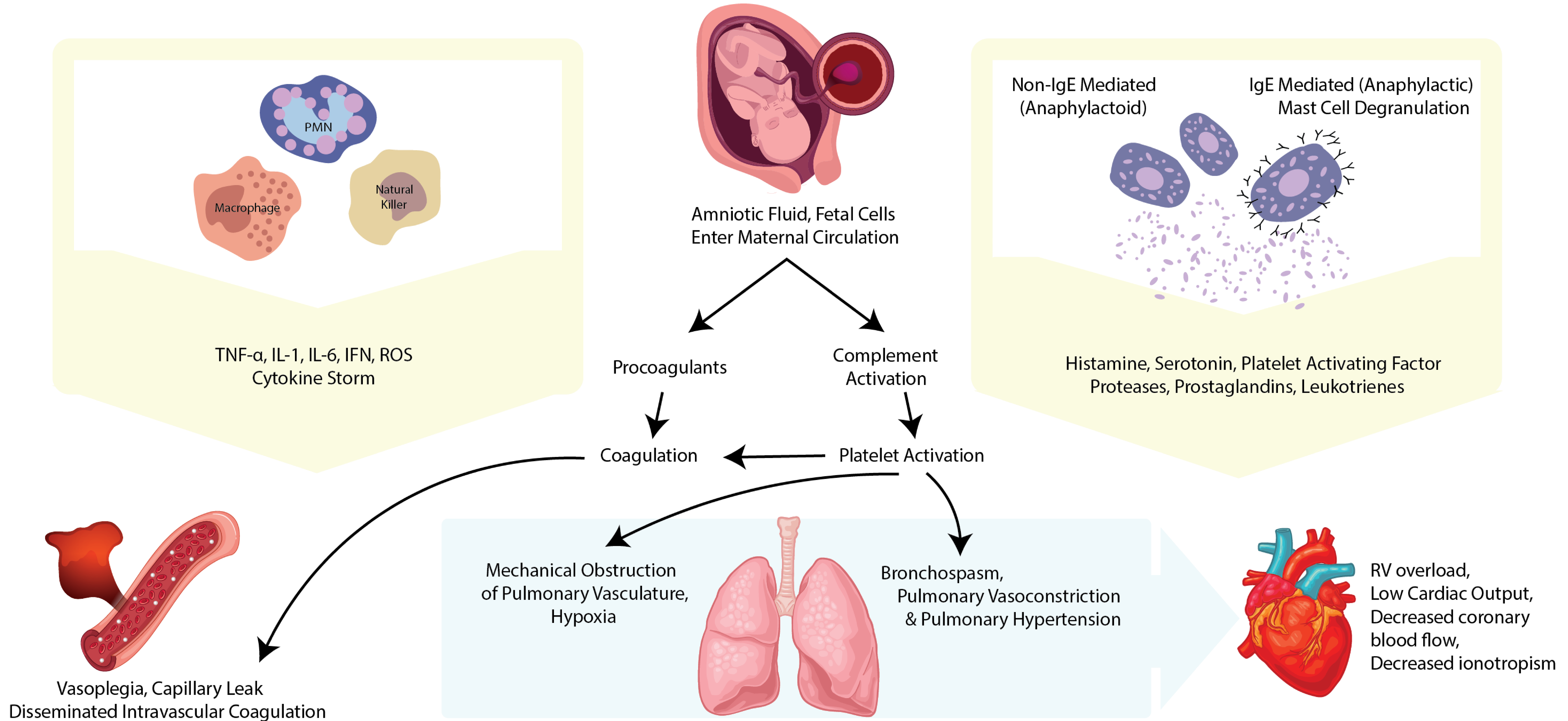
Reported Incidence 1/15k-1/54k

Maternal Mortality 10-61%

16 cases of successful delivery following AFE

Documented recurrence rate 0%

Pathophysiology of Amniotic Fluid Embolism



Subsequent Term Delivery

4 years later: 33 yo G2P1 38 +4 s/f elective C/S + PPTL
Outpatient medications: enoxaparin 40 mg, bASA
Hgb 13, Plts 229, + CoVID sputum antigen with mild sx

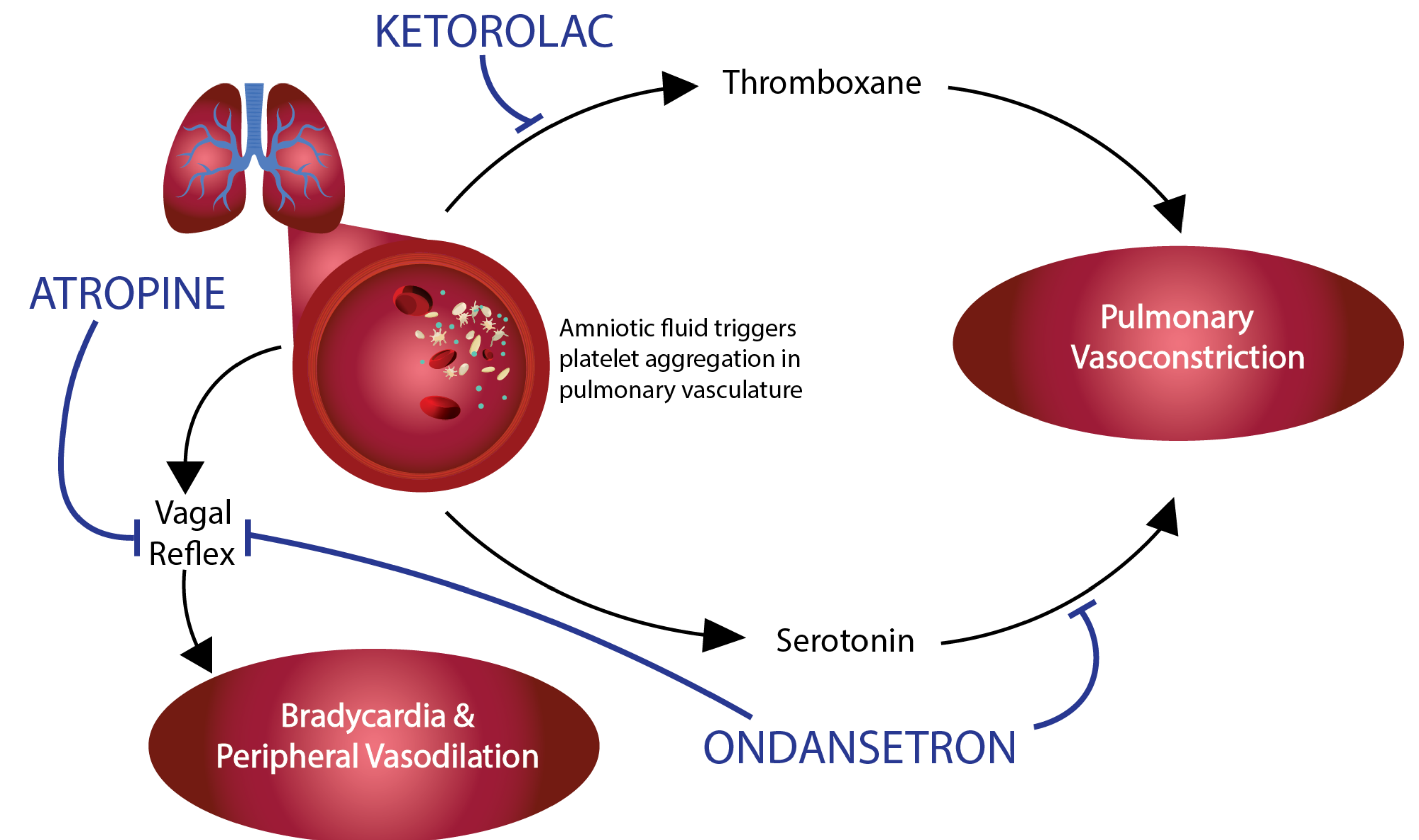
CSE anesthetic with 2x 16G PIVs
1L crystalloid administered pre-op
Arterial and central venous monitors readily available
Pharmacologic preparation (pressors, anti-anaphylactics, A-OK)
Healthy 7 lb 1.2 oz female delivered by LTCS
Placenta removed and b/l tubal ligation performed uneventfully

Enoxaparin, bASA restarted 12 hrs post-procedure
Early postpartum milestones met, patient discharged POD #2

References:

1. Am J Obstet Gynecol 2018;S121:177
2. J Reprod Med 2000;45:1007-9
3. 2013, http://www.marchofdimes.org/pdf/Missouri/AFE_11-21-13.pdf
4. A&A Case Reports 2017;8:64-66

A-OK Therapy



Summary

Uneventful repeat LTCS after devastating AFE during 1st delivery

- Few reports of subsequent pregnancy after survival of AFE (n=16)
- 1 case report suggests corticosteroid prophylaxis prior to delivery

Relative risk of recurrent AFE unknown

- Abnormal AF leukotrienes implicated, each fetus antigenically different

Recommend anticipation, preparation & vigilance with AFE- specific treatment, invasive monitors and resuscitative equipment readily available