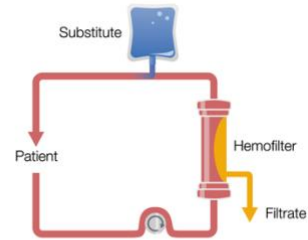


## What is filtration fraction? Sam Galvagno, DO, PhD, FCCM

$Q_B$ - blood flow  
 $Q_R$ - replacement rate  
 $Q_{Eff}$ - effluent rate  
 $U_{FR}$ - ultrafiltration rate  
 $Q_D$ - dialysate rate  
 $Hct$ - Hematocrit  
 $FF$ - filtration fraction



$$FF = \frac{Q_{Eff}}{Q_B}$$
$$= \frac{[Q_R \text{ OR } Q_D + U_{FR}]}{Q_B (1-Hct)}$$

$$FF_{CVVH} = \frac{Q_R + U_{FR}}{Q_R + (Q_B [1-Hct])}$$

Goal: keep  $FF < 20\%$  to avoid filter clotting  
(Solutions: increase  $Q_B$ , decrease  $U_{FR}$ )