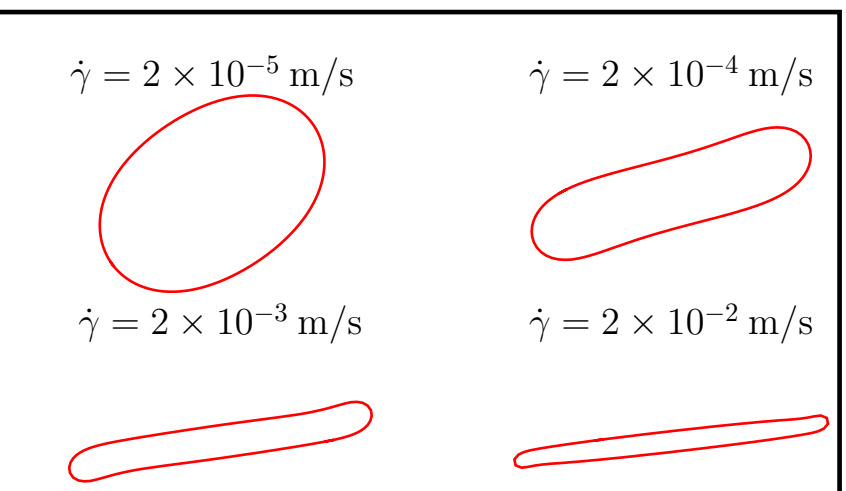
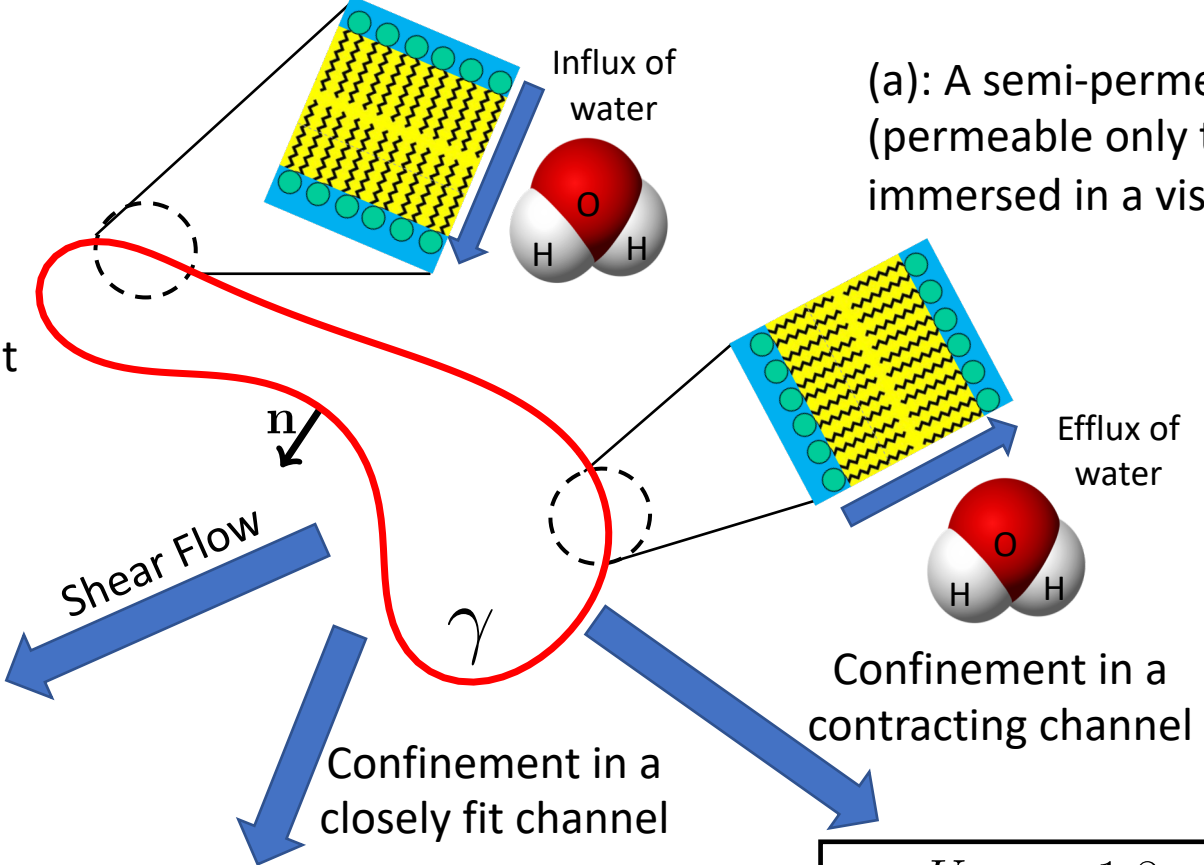


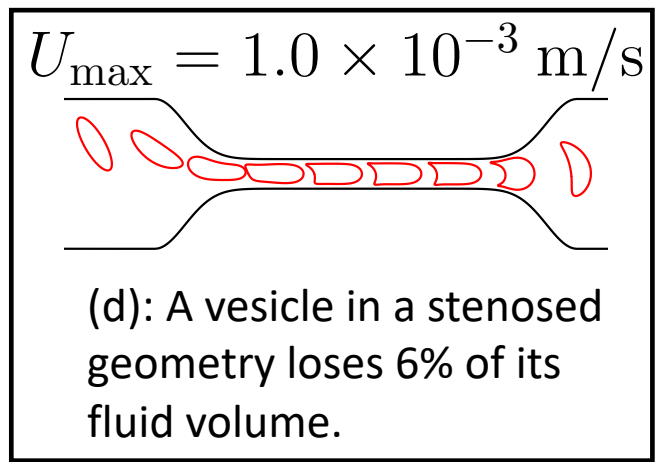
(b): A starfish vesicle at  $t=0$  relaxes and swells to a circle.



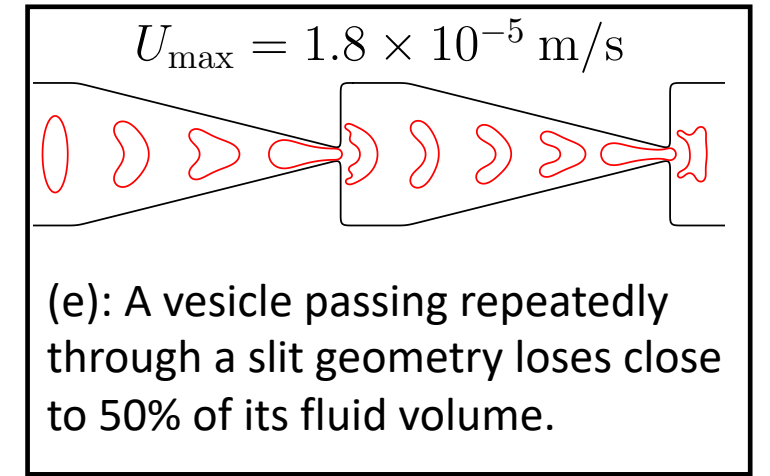
(c): A vesicle in a shear flow tank treads with a final reduced area and inclination angle that depend on the flow rate.



(a): A semi-permeable vesicle (permeable only to water) immersed in a viscous fluid.



(d): A vesicle in a stenosed geometry loses 6% of its fluid volume.



(e): A vesicle passing repeatedly through a slit geometry loses close to 50% of its fluid volume.