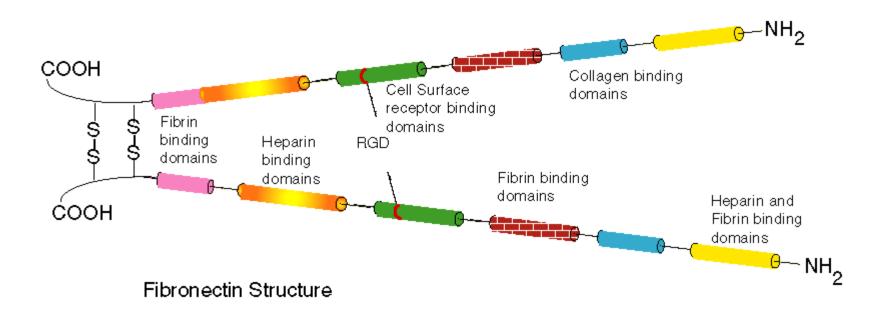
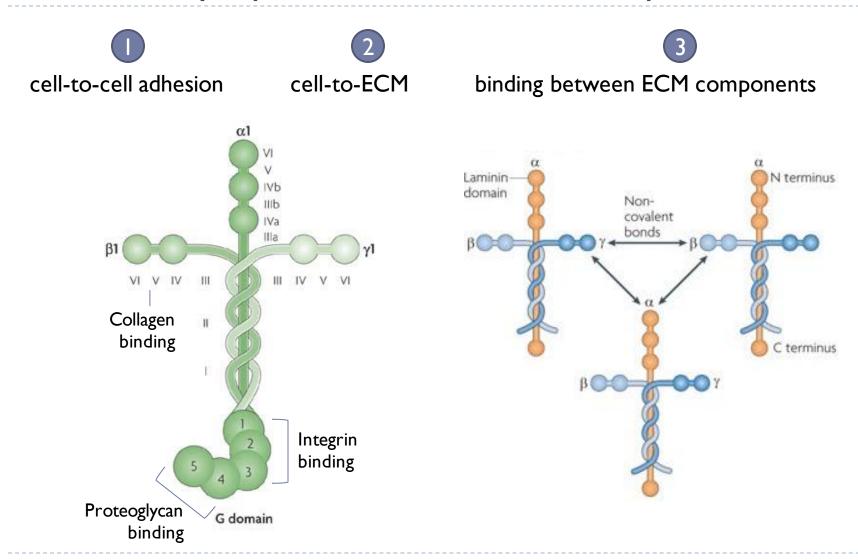
Adhesive Glycoproteins & Adhesion Receptors





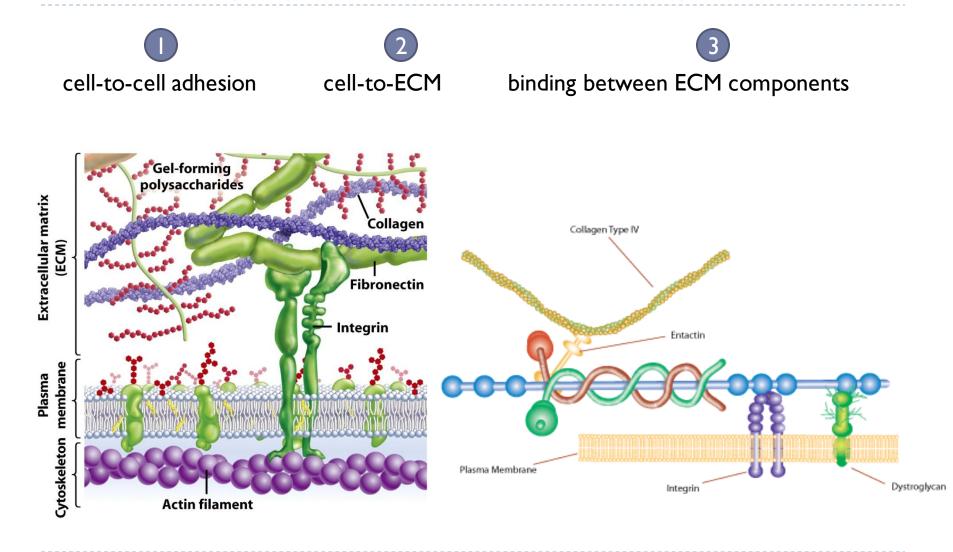


Adhesive Glycoproteins & Adhesion Receptors

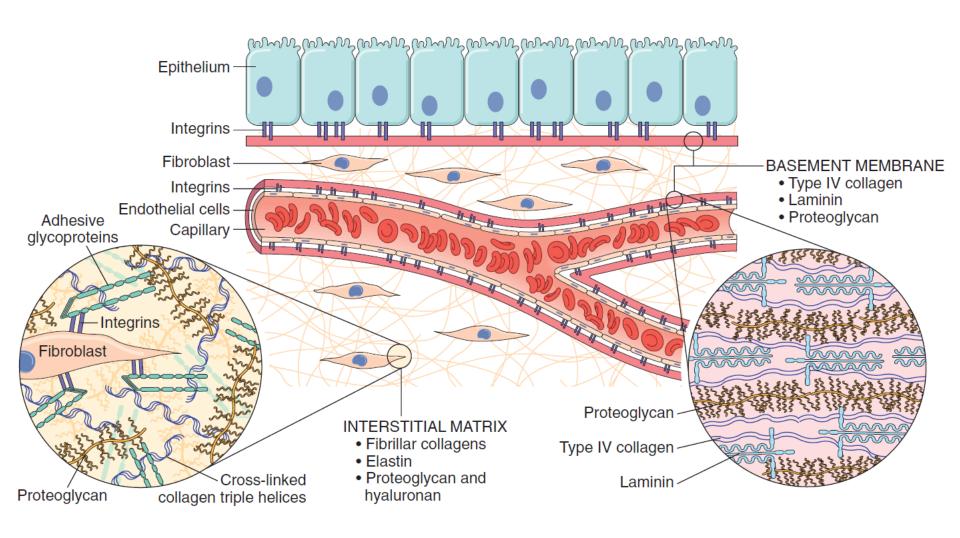




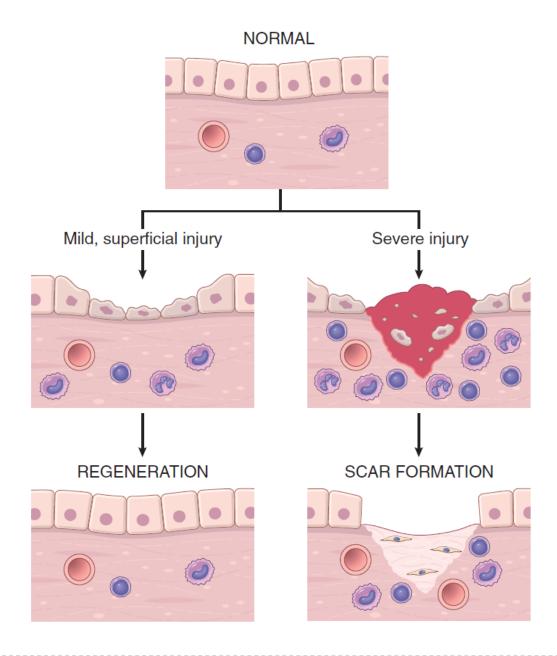
Adhesive Glycoproteins & Adhesion Receptors



Now this slide makes a lot more sense



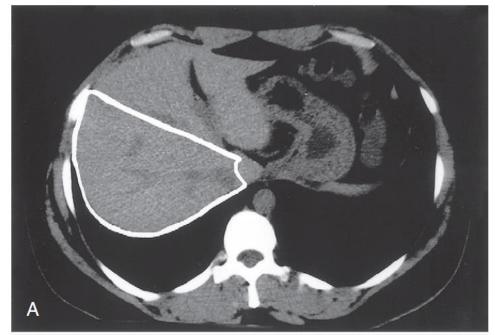
Regeneration

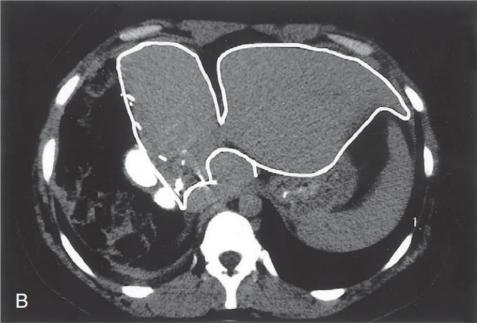


Labile tissue

injured cells replaced by regeneration **provided** the underlying basement membrane is intact

e.g. Epithelium BM





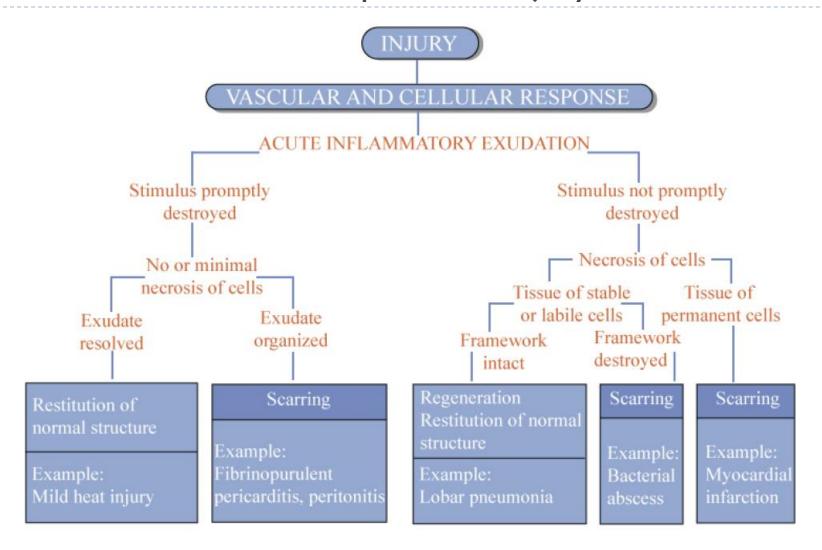
Stable tissue

Limited regeneration can occur in parenchymal organs with stable cell populations

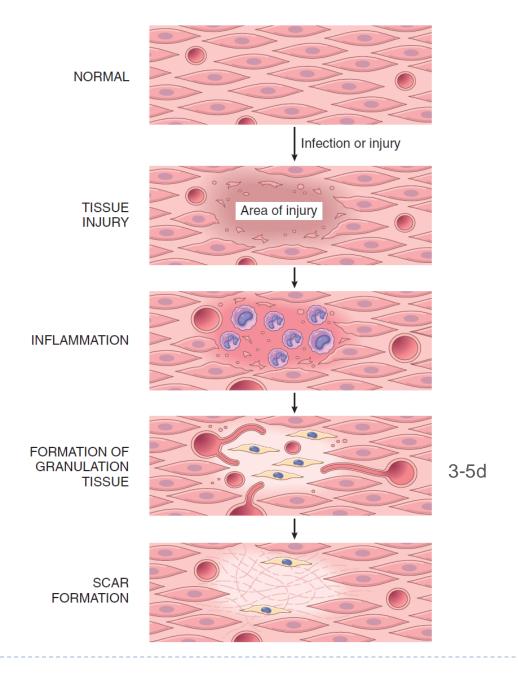
Liver is the exception (resection for donation or due to disease)

Can occur **only** if the residual connective tissue framework is structurally intact

Overview of Tissue Response to Injury



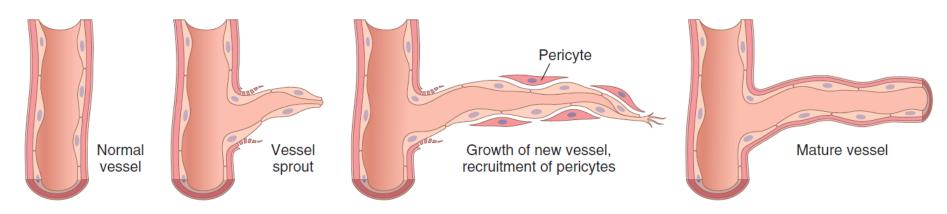
Scar formation



Steps

- Angiogenesis
- Migration and proliferation of fibroblasts (24hr)
- Deposition of CT
- Maturation and reorganization

Angiogenesis



 $NO \rightarrow Vaso dilation$ VEGF \rightarrow increased permeability

Separation of pericytes from the abluminal surface

Migration of endothelial cells

Proliferation of endothelial cells just behind the leading front of migrating cells

Remodeling into capillary tubes

Recruitment of periendothelial cells

Suppression of endothelial proliferation & migration Deposition of the basement membrane



Angiogenic growth factors (VEGF)

