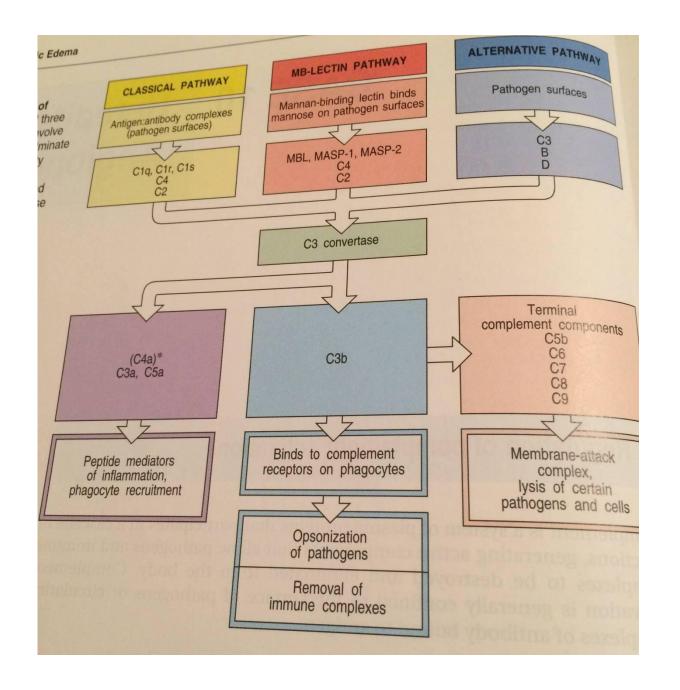
Hereditary Angioneurotic Edema

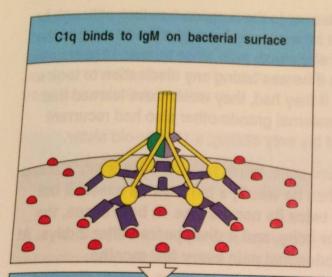
Case Study

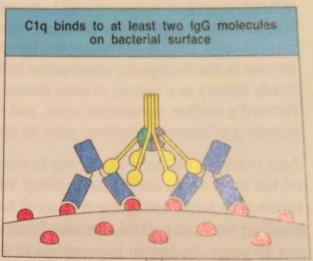
C1 esterase inhibitor (C1INH)

Potent Inhibitor of the classical pathway

Sole known inhibitor of C1

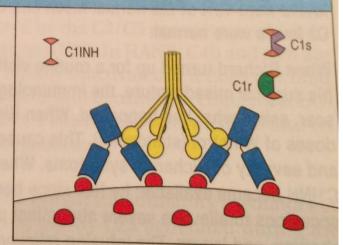






Binding of C1q to Ig activates C1r, which cleaves and activates the serine protease C1s

C1INH dissociates C1r and C1s from the active C1 complex C1s T C1INH



Case of Richard Crafton

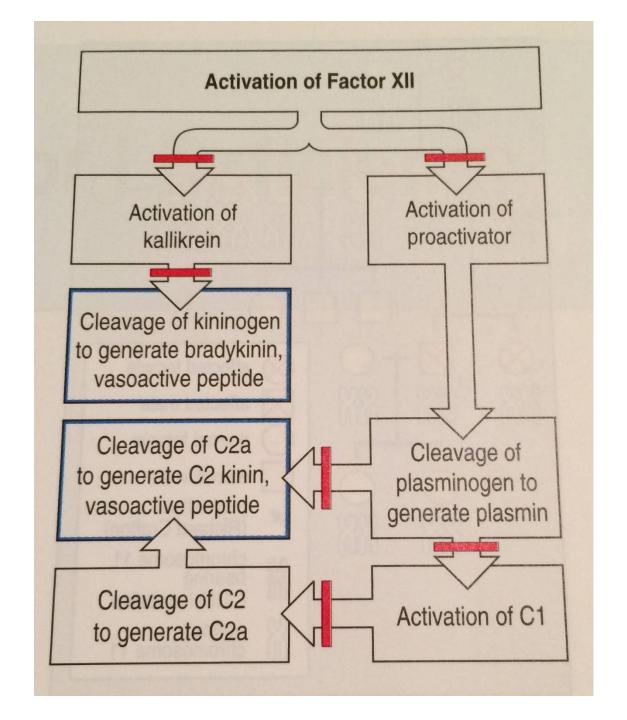
Swelling of skin

Intestine (Abdominal pain, vomiting)

Colon= Severe watery diarrhea

Larynx= choking





Why is Richard's C4 low?

Cleaved by C1

What other complement component should be low?

C2

Is the alternative pathway affected?

No

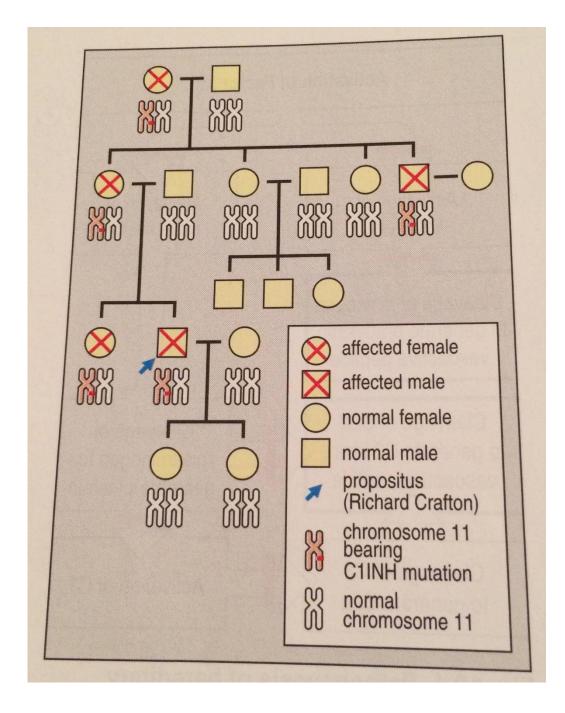
Are these patients more prone to infections?

No (Alternative pathway compensates)

In airway obstruction case in ER, how to decide if it is C1INH deficiency case or anaphylactic shock?

Administer epinephrine in any case and monitor response

Can Richard 's children pass the disease to their offspring?



Affected males vs. Females?

Disease skipping generations?

Autosomal dominant pattern