

Systemic Reaction To A vaccination

Is this anaphyaxis?

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Anaphylaxis – 3 definitions

Definition #1

- Rapid onset of symptoms
- Involvement of skin and/or mucosal tissue
- At least one of:
 - Respiratory compromise
 - Hypotension
 - Symptoms of end organ dysfunction

Anaphylaxis – 3 definitions

Definition #2

- Rapid onset of symptoms after likely allergen exposure
- Involvement of two or more of:
 - Skin/mucosal tissue
 - Respiratory compromise
 - Hypotension with associated consequences
 - Gastrointestinal symptoms

Signs to consider in the crunch

Cutaneous

**Vasomotor
instability
mottling?**



Signs to consider in the crunch

Cutaneous

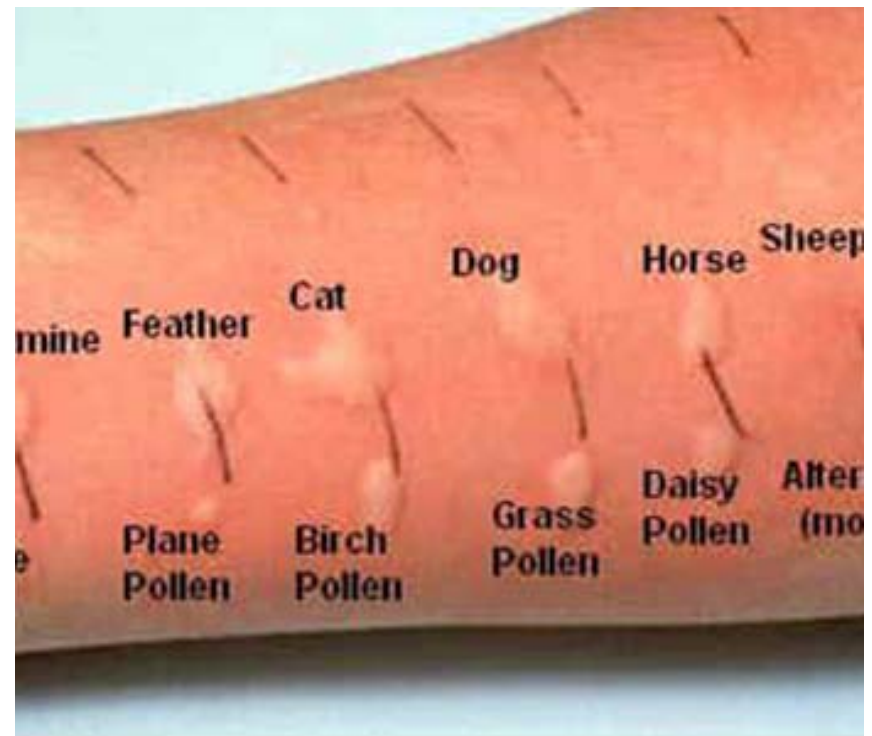
Urticaria?



Signs to consider in the crunch

Cutaneous

Urticaria
?? SHOT SITE ??



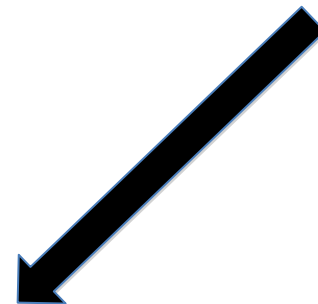
Skin Allergy Test

Signs to consider in the crunch
Cardiovascular

Bradycardia ?



Vasovagal attack



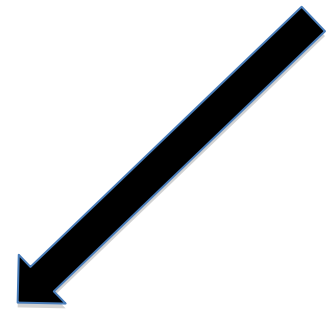
LIE DOWN - LEGS UP

Signs to consider in the crunch Cardiovascular

Tachycardia ?
(not isolated)



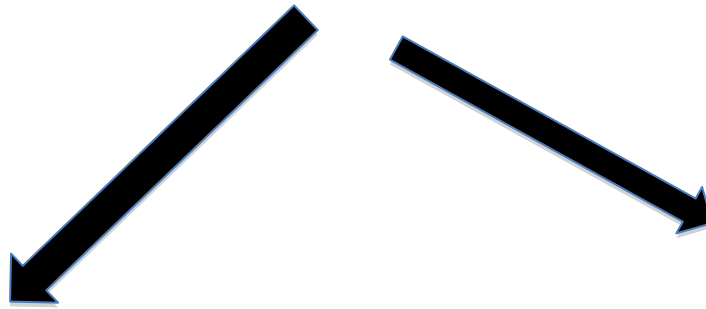
Possible anaphylaxis



LIE DOWN - LEGS UP

Signs to consider in the crunch
Cardiovascular

Possible anaphylaxis



BP?
Dysphonia ?
Dyspnea ?
(ABC)

LIE DOWN - LEGS UP

Why an IgE trigger for a vaccine allergy is rare

- Need to have an atopic predisposition
- Need to have some personal immune maturity (> 6 -12 months)
- Need to be sensitized to the component
- Need to be above the threshold dose of the allergenic component
- IgG mediated mechanisms of murine anaphylaxis exist
- 40% of anaphylaxis is idiopathic

Default

Always adrenaline

Beware

Benadryl only