Systemic Reaction To A vaccination

Is this anaphyaxis?

J M Dean
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
Anaphylaxis – 3 definitions
Definition #3

• Rapid onset of symptoms after likely allergen exposure

• Hypotension
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