



Suspected drug hypersensitivity reactions in children: Beta-lactams, NSAIDs and beyond

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Objective

• To know the drugs most frequently involved in the clinical suspicion of drug hypersensitivity in children

To know their clinical manifestations

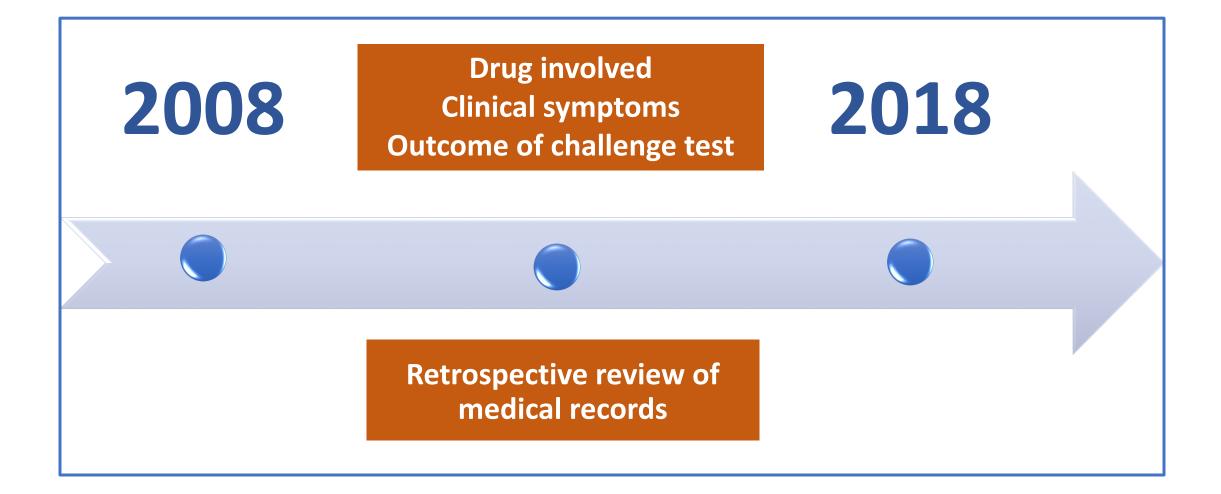
To know how often this clinical suspicion is confirmed







Material and methods









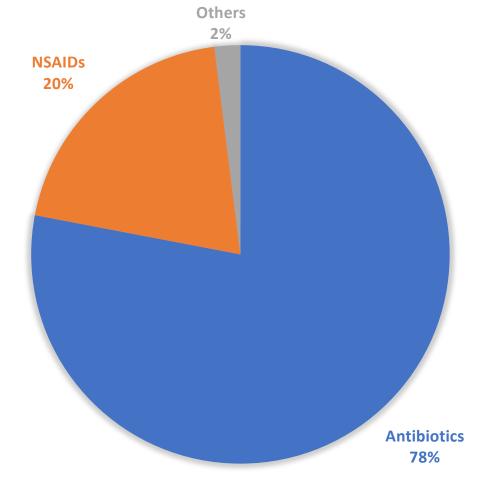




- 1185 reactions
- 1093 children (55 with more than one reaction)

Others

Local anesthetics
Vaccines
Radiological contrasts
Perianesthetic reactions
Cytostatics
Chlorhexidine





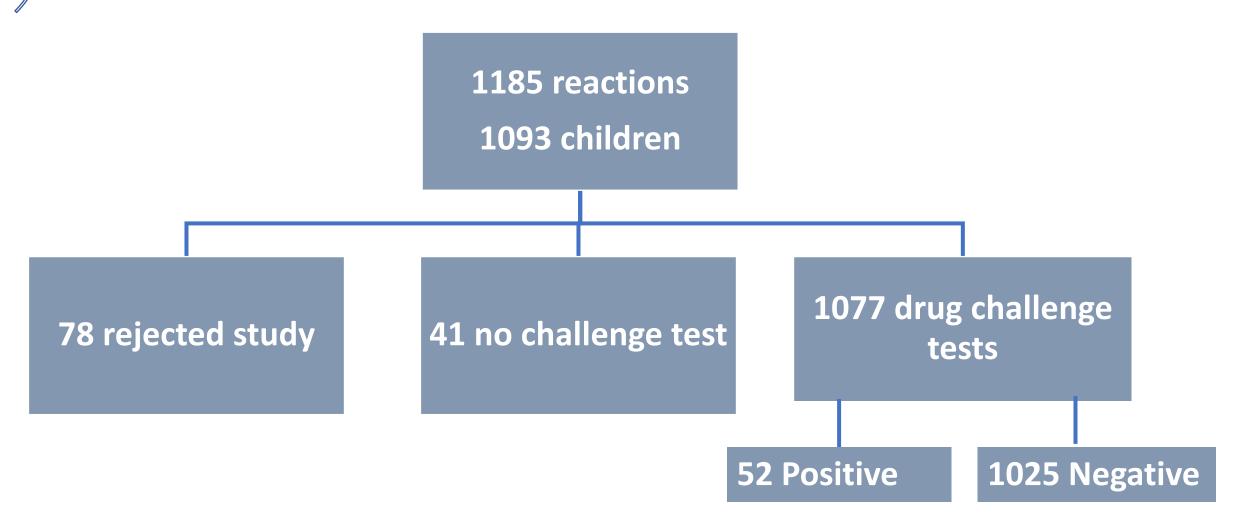


Results: Clinical manifestations

- Mild cutaneous symptoms: 1149
- Anaphylaxis: 25
- Seizures: 5
- Non specific symptoms: 4
- SJS/NET: 2















Results: No challenge tests

12 Severe reactions

- 2 SJS/TEN with acetaminophen/ibuprofen
- 4 anaphylaxis with ibuprofen
- 3 anaphylaxis with antibiotics (1 amoxicillin + positive skin test)
- 1 anaphylaxis with carboplatin + positive skin test
- 1 anaphylaxis with cisatracurium + positive skin test
- 1 seizure with cefotaxime

26 recurrent reactions with the same drug or positive skin tests and compatible symptoms

- 19 urticaria/angioedema with NSAIDs
- 5 delayed skin rashes with amoxicillin- clavulanic (1 positive skin test)
- 1 methotrexate and positive skin test
- 1 fixed drug eruption with TMP-SMX

3 reactions with drugs considered not useful









Results: Challenge tests (1077)

POSITIVE 52

- 26 NSAIDs (7 anaphylaxis, 19 cutaneous rashes)
- 24 antibiotics (cutaneous rashes)
- 2 clorhexidine (contact dermatitis)

NEGATIVE 1025

Results: Delabeling

1159 reactions

1023 negative: 86% total

92% studied









Conclusions

• Drug hypersensitivity reactions are a frequent reason for medical consultation in children but is rarely confirmed

 Antibiotics and non steroidal anti-inflammatory analgesics are the drugs most frequently involved in suspected hypersensitivity reactions in children

 Hypersensitivity was diagnosed more frequently in the group of anti-inflammatory drugs.



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