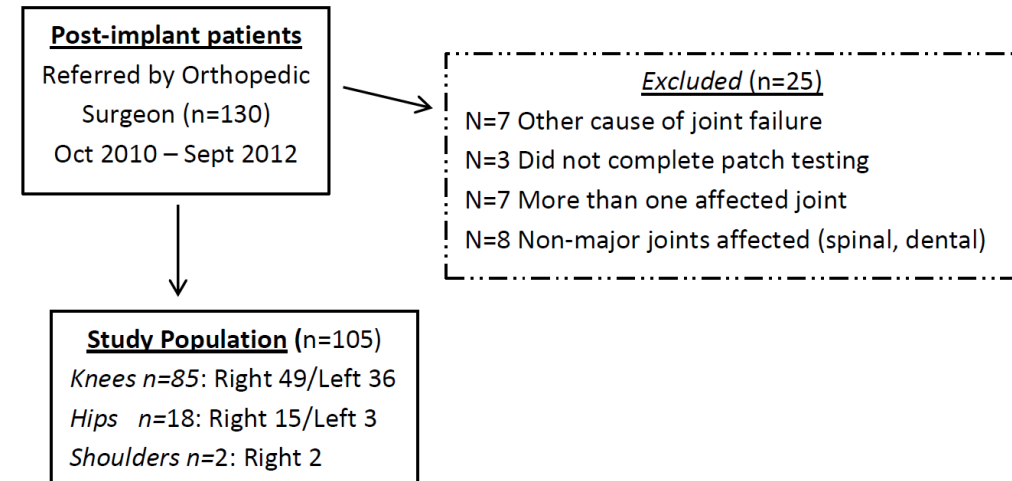


La sensibilisation aux constituants des prothèses = échec de la prothèse. Le remplacement par une prothèse non-allergénique améliore l'évolution

- 105 patients: échec prothèse genou, hanche, épaule
- 60% sensibilisés
 - 32% métaux (Ni, Co, Cr)
 - 37% ciment (acrylates, BP, 2-HEMA, ciment)
- Remplacement par:
 - céramique (métaux)
 - press & fit (ciment)
- Evolution favorable 12 mois après le remplacement
 - chez les sensibilisés ou non
 - plus fréquente chez les sensibilisés



How does this study impact current management guidelines?

✓ **Testing for sensitization to implant components needs to be part of the routine evaluation of joint failure patients.**

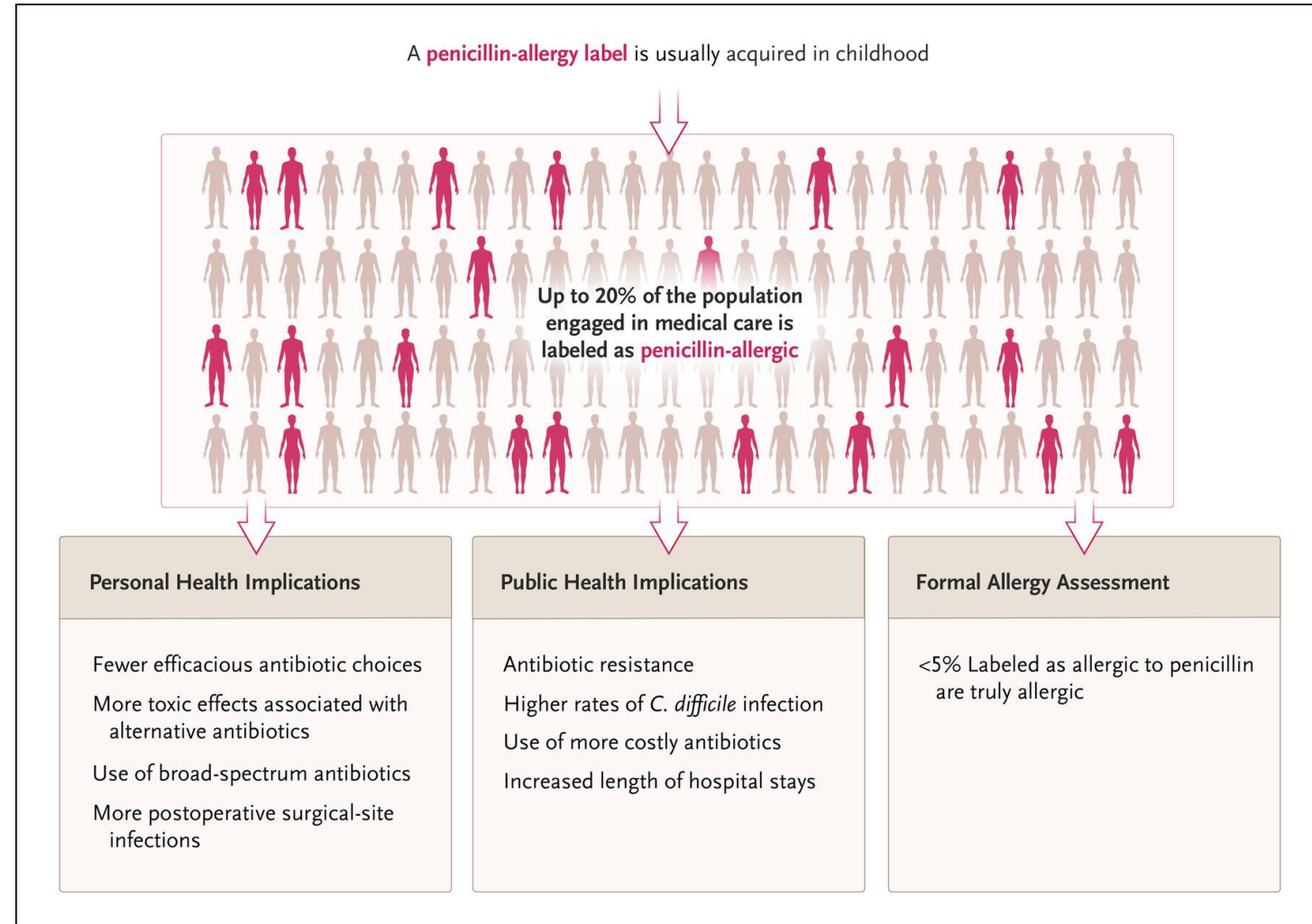
Table 6. Comparison of outcomes by sensitization status

Outcome	Implant Sensitization n=35			No Implant Sensitization n=26		
	Revision n=22	Other surgery or no Revision n=13	p	Revision n=13	Other surgery or no Revision n=13	p
No or mild Pain	15 (68%)	1 (8%)	0.001	6 (46%)	4 (31%)	0.688
No or mild Swelling	14 (64%)	3 (23)%	0.035	8 (62%)	6 (46%)	0.695
No or mild Instability	16 (73%)	3 (23%)	0.006	11 (85%)	7 (54%)	0.202
Good or better ROM	13 (59%)	3 (23%)	0.078	9 (69%)	5 (39%)	0.238
Overall doing better	16 (73%)	1 (8%)	0.0003	9 (69%)	3 (25%)	0.047

Sensitization to implant components is associated with joint replacement failure; identification and revision to non-allergenic hardware improves outcomes. The Journal of Allergy and Clinical Immunology: In Practice, in press 2021

Penicillin Allergy

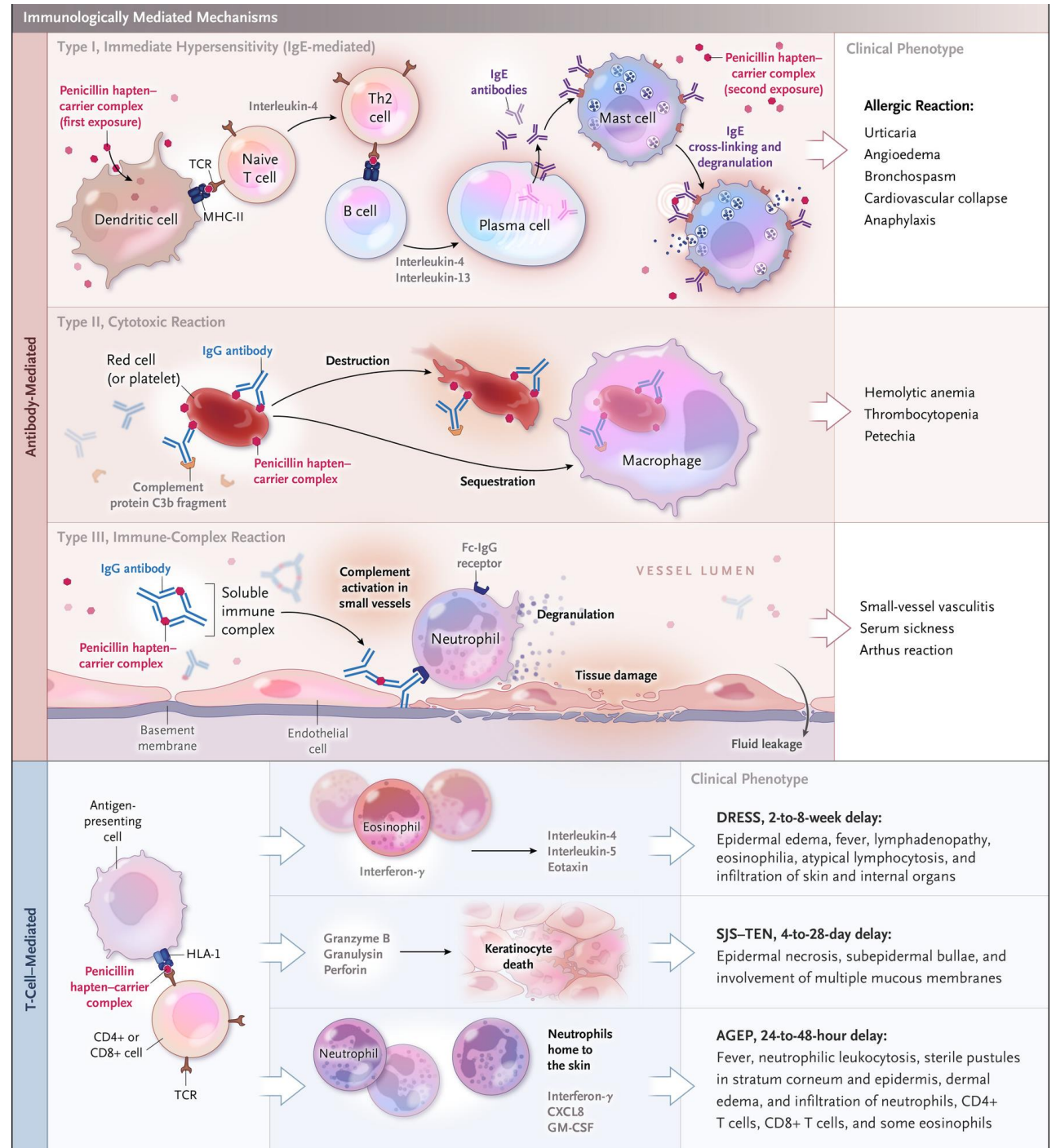
- Current Epidemiology and Geographic Relevance
- Penicillin and Beta-Lactams
- Mechanisms of Penicillin Allergy
- Diagnosis of IgE-Mediated Penicillin Allergy
- Penicillin Skin Testing for IgE-Mediated Reactions
- Direct Challenge without Skin Testing for Children
- Testing for Delayed Penicillin Allergy
- Genetic Risk
- Natural History of Penicillin Allergy
- Clinical Implications of a Penicillin-Allergy Label
- Penicillin-Allergy Assessment in Antibiotic Stewardship Programs
- Best Clinical Practices for Removing the Penicillin-Allergy Label
- Penicillin Desensitization



Castells M, Khan DA, Phillips EJ. [Penicillin Allergy](#). N Engl J Med. 2019 Dec 12;381(24):2338-2351.

Penicillin Allergy

- Current Epidemiology and Geographic Relevance
- Penicillin and Beta-Lactams
- Mechanisms of Penicillin Allergy
- Diagnosis of IgE-Mediated Penicillin Allergy
- Penicillin Skin Testing for IgE-Mediated Reactions
- Direct Challenge without Skin Testing for Children
- Testing for Delayed Penicillin Allergy
- Genetic Risk
- Natural History of Penicillin Allergy
- Clinical Implications of a Penicillin-Allergy Label
- Penicillin-Allergy Assessment in Antibiotic Stewardship Programs
- Best Clinical Practices for Removing the Penicillin-Allergy Label
- Penicillin Desensitization



Hypersensibilité aux antibiotiques

La réintroduction d'un traitement complet est préférable à la réintroduction d'une seule dose pour assurer le diagnostic d'hypersensibilité

- The prevalence of antibiotic hypersensitivity in cystic fibrosis (CF) patients is comparable to that observed in the general population
- Only a small proportion of suspected antibiotic hypersensitivities is confirmed by the allergology workup and/or the drug challenge
- Full-course reintroduction of the culprit antibiotic (and not only drug provocation test),
- β -Lactams are the most frequently involved antibiotics in these reactions, but attention must be paid to other molecules, especially cotrimoxazole.

BRAUN C, REIX P, DURIEU I, NOVE-JOSSERAND R, DURUPT S, OHLMANN C, MAINGUY C, NICOLAS JF, NOSBAUM A, JUBIN V. The diagnosis of hypersensitivity to antibiotics is rarely confirmed by the allergology work-up in cystic fibrosis patients. *Pediatr Allergy Immunol.* 2020; 31:396-404

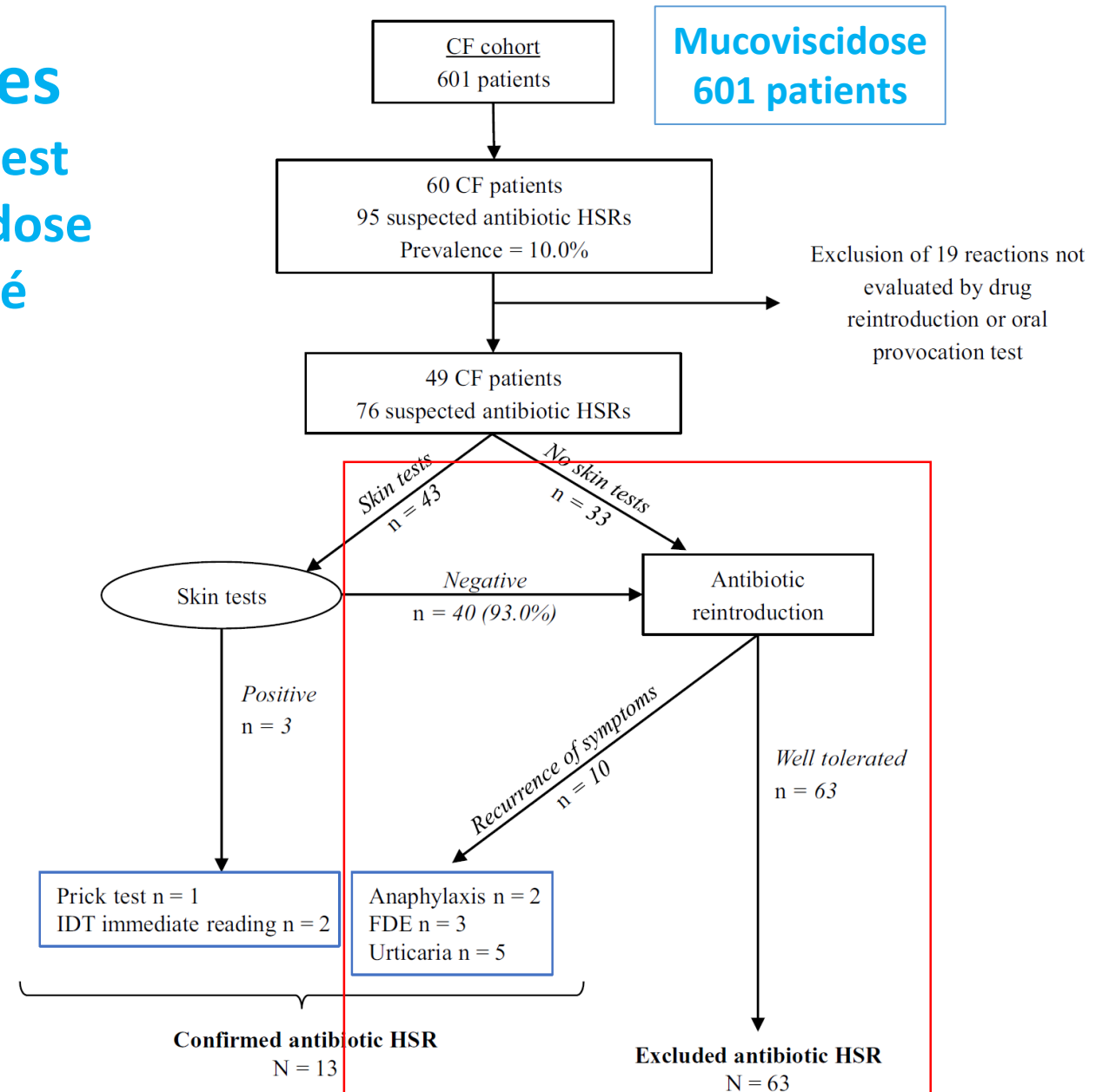
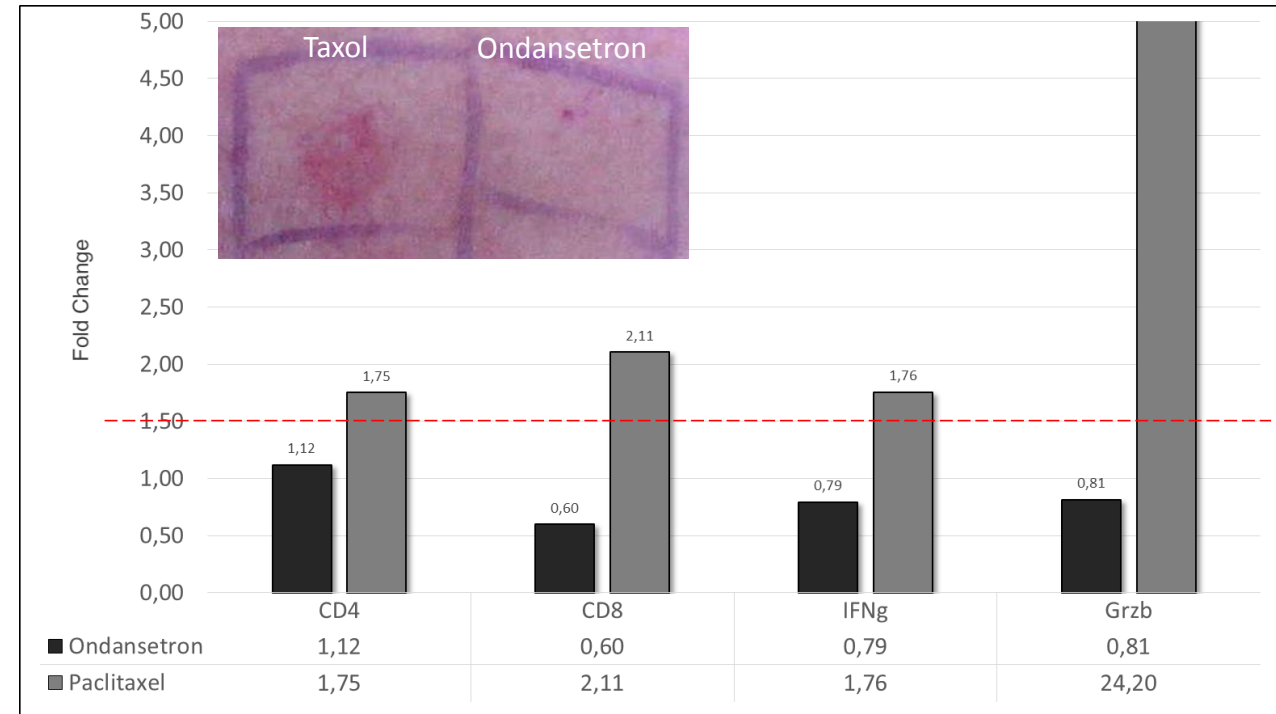


FIGURE 1 Diagnosis flowchart of antibiotic hypersensitivity reactions in cystic fibrosis patients. HSR, hypersensitivity reaction

Diagnostic moléculaire de l'allergie retardée aux médicaments

- Paclitaxel (i.e. Taxol®) chemotherapy belonging to the taxane class: breast, ovarian and lung cancer and Kaposi sarcoma.
- Taxane-induced hypersensitivity reactions are frequent and occur in almost 10% of patients.
 - most of the reactions are immediate hypersensitivities
 - delayed hypersensitivity reactions: MPE or as Steven-Johnson syndrome
- **Case report:** Patient who developed a generalized maculo-papular exanthema starting 24h after the first Taxol® injection.
- Positive delayed (72h) intradermal skin test (IDT) to Taxol®.
- RT-PCR analysis of the positive paclitaxel IDT confirmed the diagnosis of delayed allergic hypersensitivity.

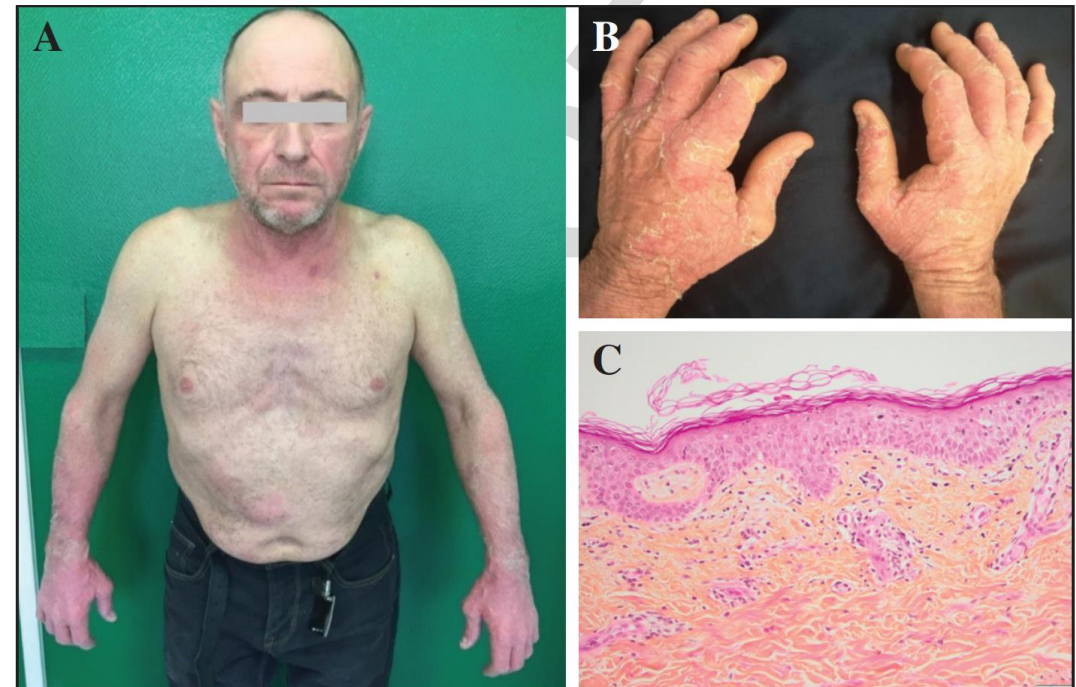
Bourdenet V, Jaulent C, Hacard F, Bérard F, Nicolas JF, Vocanson M, Nosbaum A. Molecular diagnosis of Paclitaxel-induced delayed allergy. J Investig Allergol Clin Immunol, submitted, 2020



- Molecular analysis of positive skin tests discriminates a **delayed drug allergy**, involving the recruitment and activation in the skin of drug-specific T cells (adaptive immunity) from a **delayed non allergic hypersensitivity** mediated by activation of innate immunity.

La survenue d'une toxidermie bénigne ne doit pas faire arrêter le traitement

- Monoclonal antibodies targeting IL-17A (ixekizumab, secukinumab) or the IL-17 receptor A (IL-17-RA; brodalumab)
 - are all highly effective and well tolerated
 - occurrence of eczematous eruptions in 2 to 5% of patients under IL-17A-F inhibitors.
- **Case report:** generalized eczematous eruption during the course of brodalumab treatment in a difficult-to-treat psoriasis patient:
 - (i) lack of efficacy (etanercept, infliximab, adalimumab, ixekizumab);
 - (ii) bad tolerance (ustekinumab, golimumab);
 - (iii) paradoxical worsening of the disease: pustular psoriasis (infliximab, ustekinumab)
- Management of the eczema
 - short course of topical corticosteroids
 - continuation of brodalumab

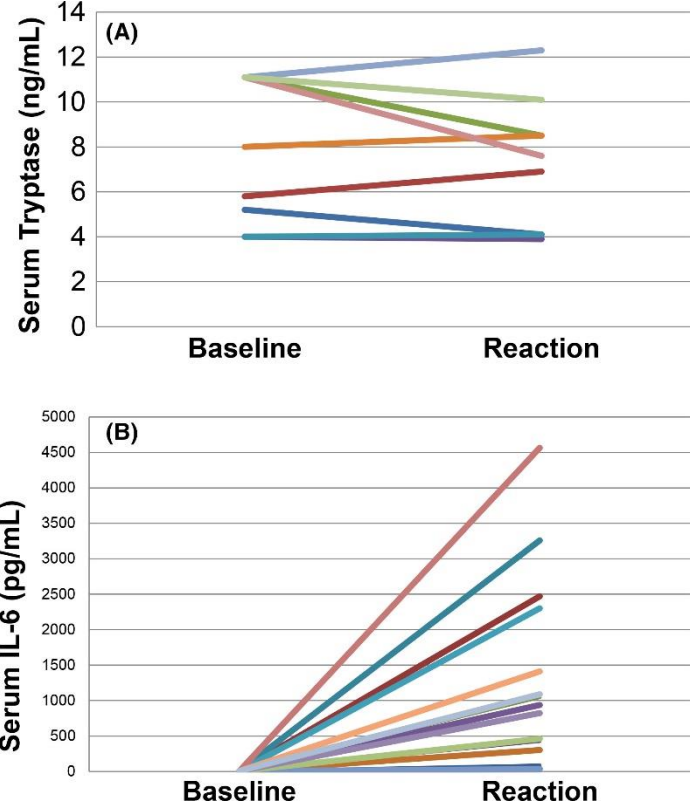


Danset M, Hacard F, Jaulent C, Nosbaum A, Berard F, Nicolas JF, Goujon C. [Brodalumab-associated generalized eczematous eruption in a difficult-to-treat psoriasis patient: management without brodalumab withdrawal.](#) Eur J Dermatol. 2020 Dec 18.

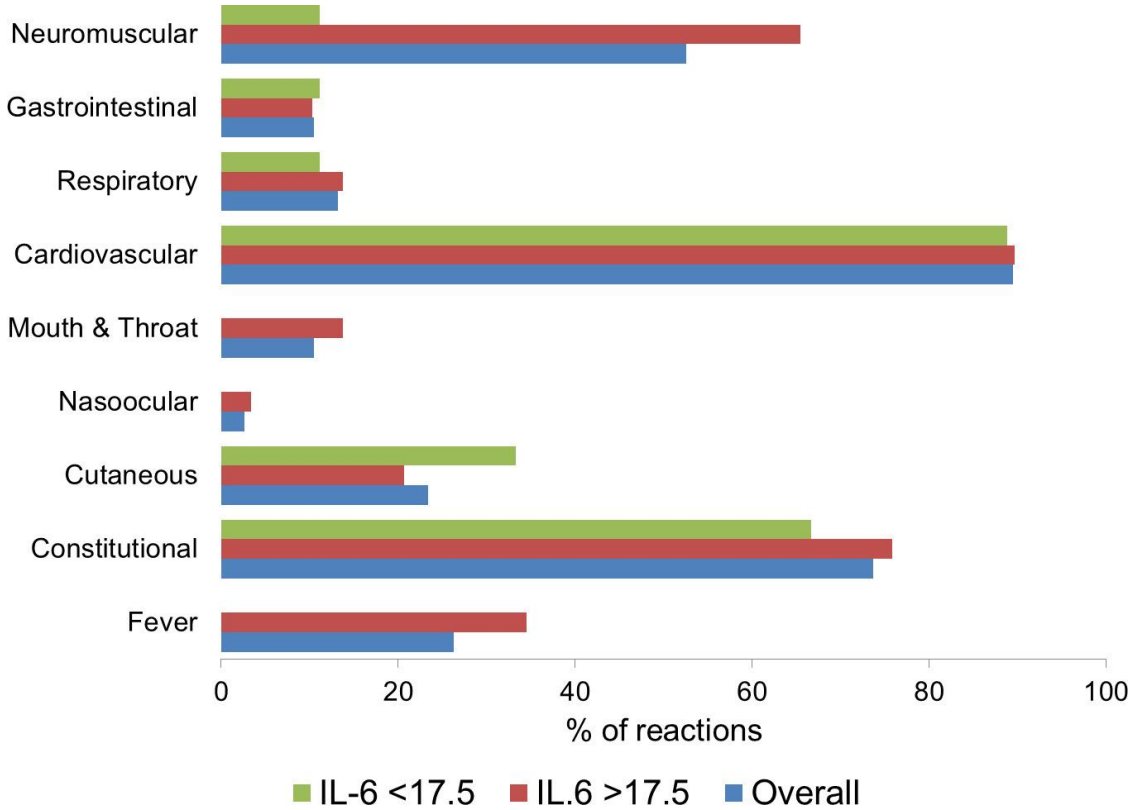
Best of 2021

Drug allergy

Interleukin-6: A novel biomarker for monoclonal antibody and chemotherapy-associated hypersensitivity confirms a cytokine release syndrome phenotype-endotype association



Interleukin-6: A novel biomarker for monoclonal antibody and chemotherapy-associated hypersensitivity confirms a cytokine release syndrome phenotype-endotype association



Granulysin-based lymphocyte activation test for evaluating drug causality in antiepileptics-induced severe cutaneous adverse reactions

Mu-Tzu Chu^{1,2}, Chuang-Wei Wang^{2,3}, Wan-Chun Chang², Chun-Bing Chen^{2, 3, 4, 5}, Wen-Hung Chung^{2, 3, 4, 6, 7}, and Shuen-lu Hung, PhD^{1,2,3}

Urticaire aux AINS : une prise en charge similaire à celle de l'urticaire aiguë NSAID urticaria: Similar management to acute urticaria

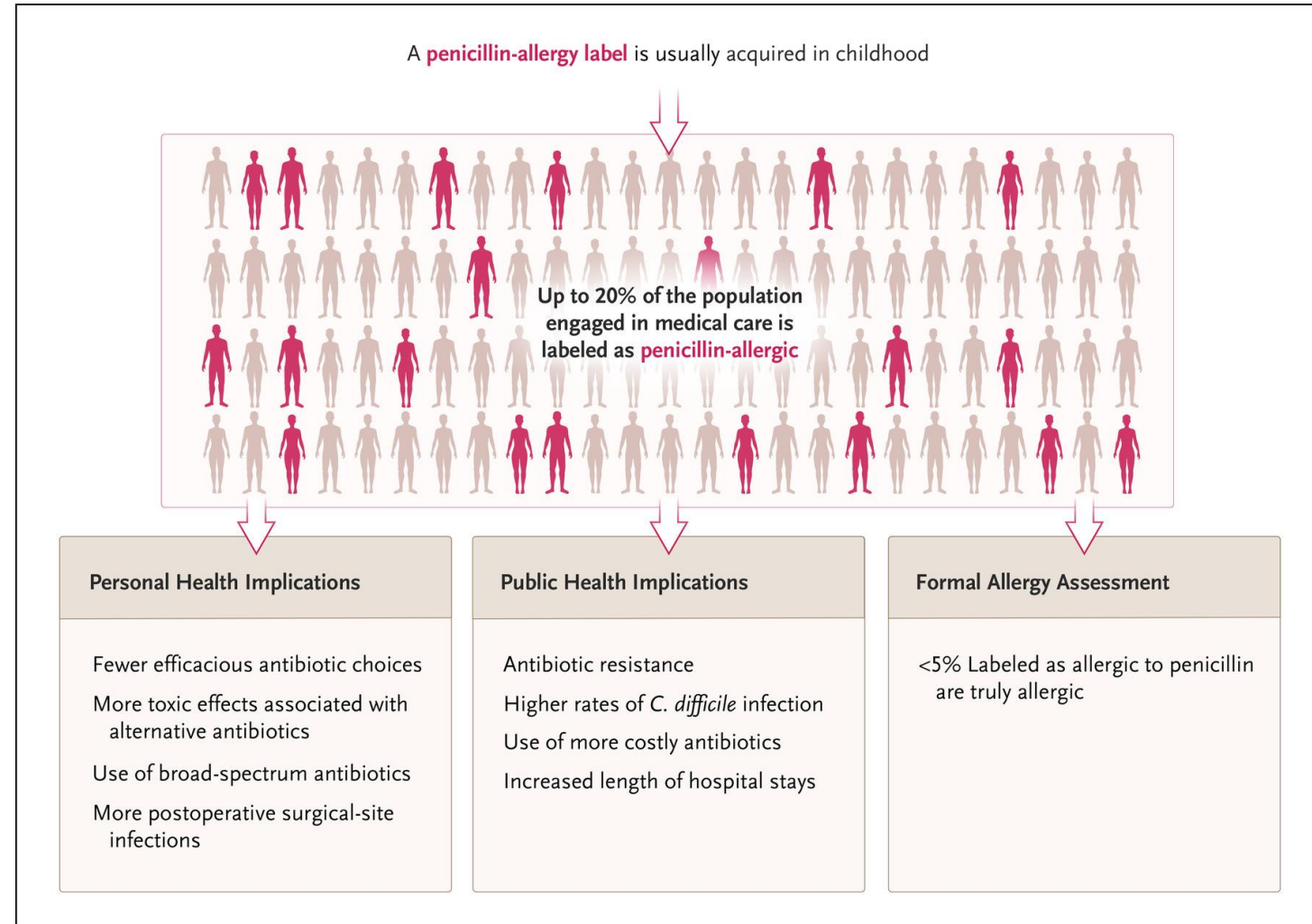
Author links open overlay panel [M.Khandzian^{ab}](#) [F.Hacard^{ac}](#) [M.Braire-Bourrel^a](#) [C.Jaulent^a](#) [F.Bérard^{abc}](#) [J.-F.Nicolas^{abc}](#) [A.Nosbaum^{abc}](#)

[Xolair-induced recurrent anaphylaxis through sensitization to the excipient polysorbate.](#) Perino E, Freymond N, Devouassoux G, **Nicolas JF**, Berard F. *Ann Allergy Asthma Immunol.* 2018 Jun;120(6):664-666. doi: 10.1016/j.anai.2018.02.018. Epub 2018 Feb 23.

[Drug-induced aseptic meningitis: A possible T-cell-mediated hypersensitivity.](#) Castagna J, Nosbaum A, Vial T, Rozieres A, Hacard F, Vocanson M, Pralong P, Chuniaud-Louche C, **Nicolas JF**, Gouraud A, Bérard F.J Allergy Clin Immunol Pract. 2018 Jul-Aug;6(4):1409-1411. doi: 10.1016/j.jaip.2017.11.034. Epub 2018 Jan 6.

Penicillin Allergy

- Current Epidemiology and Geographic Relevance
- Penicillin and Beta-Lactams
- Mechanisms of Penicillin Allergy
- Diagnosis of IgE-Mediated Penicillin Allergy
- Penicillin Skin Testing for IgE-Mediated Reactions
- Direct Challenge without Skin Testing for Children
- Testing for Delayed Penicillin Allergy
- Genetic Risk
- Natural History of Penicillin Allergy
- Clinical Implications of a Penicillin-Allergy Label
- Penicillin-Allergy Assessment in Antibiotic Stewardship Programs
- Best Clinical Practices for Removing the Penicillin-Allergy Label
- Penicillin Desensitization



Castells M, Khan DA, Phillips EJ. [Penicillin Allergy](#). N Engl J Med. 2019 Dec 12;381(24):2338-2351.

