

Penicillin Allergy

This is a PDF version of the following document:

Module 1: [STD Question Bank](#)

Lesson 22: [Penicillin Allergy](#)

You can always find the most up-to-date version of this document at

<https://www.std.uw.edu/go/2021-guidelines/management-persons-penicillin-allergy/core-concept/all>.

References

- Gonzalez-Estrada A, Radojicic C. Penicillin allergy: A practical guide for clinicians. Cleve Clin J Med. 2015;82:295-300. [\[PubMed Abstract\]](#) -

Table 1. Classification of Hypersensitivity Reactions

| Table 1. | | | | |
|---|------------------|----------------|---------------|--|
| Gell and Coombs Classification of Hypersensitivity Reactions | | | | |
| Type of Reactions | Hypersensitivity | Mediated by | Time of Onset | Examples |
| IgE-mediated | Type I | IgE antibodies | Within 1 hour | Anaphylaxis |
| Non-IgE-mediated | Type II | Cytotoxic | Hours to days | Hemolytic anemia |
| Non-IgE-mediated | Type III | Immune complex | 7-21 days | Serum sickness |
| Non-IgE-mediated | Type IV | Cell-mediated | Days to weeks | Maculopapular rash Stevens-Johnson syndrome Toxic epidermal necrolysis |

IgE = immunoglobulin E

Source:

- Gonzalez-Estrada A, Radojicic C. Penicillin allergy: A practical guide for clinicians. Cleve Clin J Med. 2015;82:295-300. [[PubMed Abstract](#)]

