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Antibiotic Allergy Tool: A Clinical Decision Support Tool

Stanford inventor Dr. Anne Liu has developed an algorithm that can assess the risk of allergic reaction to antibiotics and help clinicians make decisions about which antibiotic to prescribe in patients who have a history of antibiotic allergies at the point-of-care.
Antibiotics are a common and often necessary treatment for a variety of illnesses and injuries, but unfortunately, allergies to antibiotics are also prevalent. If a patient needs antibiotics but has a history of allergies to one or more antibiotic therapies, doctors are faced with a difficult decision about which product will be the lowest risk for that patient.
This technology, which was developed in REDCap, provides a complete point-of-care solution to assist doctors in deciding which antibiotic would be best for their patients based on the antibiotic needed, the patient's allergic reaction history and current clinical status, and the cross-reactivity of the antibiotics under consideration. The algorithm's output includes both a recommended antibiotic for the patient and a level of risk for each potential antibiotic treatment.

Applications

- Website or software integration that provides point-of-care assessment of the risk of antibiotic allergy in patients with a history of allergic reactions to antibiotics

Advantages

- Decision making assistance is contained completely within the application – clinicians do not need to consult outside texts to assess allergy risk

- Provides not only the level of risk for each antibiotic but recommends a course of action, simplifying the decision-making process

Innovators

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