**Beta-Lactam Allergy Challenge Shared Decision-Making Guidelines**

1. Confirm patient is eligible for full-dose beta-lactam allergy challenge:
   1. Adult patient 18 years and older
   2. Documented allergy to beta-lactam antibiotic/s
   3. Suspected or confirmed bacterial infection with a beta-lactam antibiotic recommended as the first-line therapy
2. Obtain a detailed allergy history
   1. Clarify the patient's listed allergy to beta-lactams
   2. Discuss previous antibiotic prescriptions that the patient has tolerated
3. Educate the patient that the first line antibiotic choice we are recommending for treatment of their infection during this ED encounter is a beta-lactam.
4. Discuss the risks, benefits, and alternatives to ED challenge of the patient’s beta-lactam allergy with a full-dose beta-lactam.
   1. Risks/Alternatives:
      1. This is a full dose challenge, regardless of route of administration, without a test dose.
      2. While minor reactions can commonly occur (GI upset, rashes, itching), a serious allergic reaction is still possible, including swelling of the mouth/lips/tongue/throat, difficulty breathing, low blood pressure, shock, or anaphylaxis.
      3. If you do not desire to proceed with the antibiotic challenge, we do have other antibiotics to treat you outside of this antibiotic class.
   2. Benefits:
      1. There is a low risk of beta-lactam cross-reactivity
      2. Utilizing this recommended first-line antibiotic has many benefits: higher efficacy, prevention of antibiotic resistance, and lower cost.
      3. There is a high level of safety in performing this allergy challenge in the emergency department where we can intervene quickly if a serious reaction does occur. You will be monitored closely after the antibiotic is administered. Staff, medications, and equipment are immediately available should you have an allergic reaction to the antibiotic
      4. We have a high success rate with the full-dose beta-lactam challenge in our ED. To date we have challenged hundreds of patients with mild, moderate, severe, and unknown beta-lactam allergies. We have an allergic reaction rate of <3% and, more importantly, none of the reactions were serious.
      5. If we are successfully able to challenge your allergy today, then we can remove and/or clarify your allergies in the EHR. This will allow a broader category of antibiotics to be used by you, if necessary, in the future.

If the patient consents to the full-dose beta-lactam challenge, inform them of potential symptoms of allergic reaction to watch out for and immediately report to ED nursing staff.