



The Penicillin Allergy Clinic

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Dear Midwife,

As of September 2020, our clinic will begin testing patients in Winnipeg for true Penicillin/Amoxicillin allergy in an attempt to de-label all false allergies. Approximately 10% of patients report a Penicillin allergy of which 95% are false. This leads to unnecessary avoidance of Penicillin/Amoxicillin in place of more expensive and ineffective broad-spectrum antibiotics leading to a higher C-Section rate and more days in hospital after delivery. *Choosing Wisely recommends ALL patients with a Penicillin allergy be referred for allergy testing [1].*

Our de-labelling process is incredibly safe and requires only a few hours of the patient's time. Our process allows us to de-label low risk patients which is the majority of patients who carry a Penicillin or Amoxicillin allergy label. Any patients we deem higher risk who are unable to be de-labelled at our clinic will be referred to an allergist for further management. We do not offer skin testing as the most recent studies and guidelines state that skin-prick and intra-dermal testing are not required for a majority of patients who are at low-risk for a Penicillin/Amoxicillin allergy. There are numerous benefits to you and your patients by removing their Penicillin/Amoxicillin allergy such as...

Benefits to Patients by Removing Penicillin/Amoxicillin Allergy

- 10% higher Caesarean section rate in unverified penicillin allergic women (GBS + or -), more days in hospital after delivery, and more adverse drug reactions [2]
- 50% reduced odds of surgical site infection [3]
- Reduced vancomycin use, minimizing delays to initiation of incision time in the OR [4]
- Reduced intraoperative time [4]
- Reduced length of hospital stay [5]
- Reduced risk of *Clostridium difficile* (35%) and MRSA (55%) [6]

Benefits to Healthcare System by Removing Penicillin/Amoxicillin Allergy

- Inpatient costs savings were \$1145-\$4254 per patient when Penicillin allergy was removed [6]
- Average antibiotic costs per patient decreased from \$1,265.81 to \$592.08 USD, a 53% savings [7]

To provide your patients the best possible care and reduce healthcare costs, **please fax a consult to 1-888-736-1743 addressed to the 'The Penicillin Allergy Clinic'.**

Sincerely,

Dr. Norm Silver, FRCPC
Pediatrician/Emergency Physician

Dr. Taft Micks, CCFP(EM)
Family/Emergency Physician

References

1. Choosing Wisely. American Academy of Allergy, Asthma & Immunology: Ten Things Physicians and Patients Should Question. Available from: <http://www.choosingwisely.org/doctor-patient-lists/american-academy-of-allergy-asthma-immunology/>. March 2014
2. Desai SH, Kaplan MS, Chen Q, Macy EM. Morbidity in Pregnant Women Associated with unverified penicillin allergies, antibiotic use, and Group B Streptococcus infections. *Perm J* 2017;21:16-080
3. Blumental KG, Ryan EE, Yu L, Lee H, Kuhlen Jr. JL, Shenoy ES. The impact of a Reported Penicillin Allergy on Surgical Site Infection Risk. *Clin Infect Dis*. 2018 Jan 18;66(3):329-336.
4. Moussa Y, Shuster J, Matte G, Sullivan A, Goldstein RH, Cunningham D, et al. De-labeling of β -lactam allergy reduces intraoperative time and optimizes choice in antibiotic prophylaxis. *Surgery*.164 (2018); 117-123
5. Jones BM, Bland CM. Penicillin skin testing as an antimicrobial stewardship initiative. *Am J Health-Syst Pharm*. 2017;74:232-7
6. Blumental KG, Lu N, Zhang Y, et al. Risk of methicillin resistant *Staphylococcus aureus*, and *Clostridium difficile* in patients with a documented penicillin allergy: population based matched cohort study. *BMJ* 2018;361:k2400
7. Mattingly II TJ, Fulton A, Lumish RA, Williams AMC, Yoon SJ, Yuen M, et al. The Cost of Self-Reported Penicillin Allergy: A Systematic Review. *J Allergy Clin Immunol Pract* 2018;6:1649-54
8. Chen JR, Tarver SA, Alvarez KS, Wei W, Khan DA. Improving aztreonam stewardship and cost through a penicillin allergy testing clinical guideline. *Open Forum Infect Dis*. 2018 May 5;5(6)