



Why is MDCH Promoting the More Complex Two Dose Influenza Vaccination Algorithm for the 2012-13 Influenza Season?

Background

Children aged 6 months through 8 years require 2 doses of influenza vaccine during their first season of vaccination to optimize immune response. This year, the Advisory Committee on Immunization Practices (ACIP) presented two options to determine children aged 6 months through 8 years who will need 2 doses of seasonal flu vaccine:

1) Any child who does NOT have documentation of receiving at least 2 doses of seasonal flu vaccine since July 1, 2010, needs 2 doses of 2012-13 seasonal flu vaccine. This option is the simpler approach presented by ACIP.

2) **In settings where adequate vaccine history is available**, children who need 2 doses are:

- Any child who does not have documented history of receiving:
 - At least 2 doses of any seasonal flu vaccine (TIV/LAIV)
 - Doses administered in the same or 2 different flu seasons
 - AND
 - At least 1 dose of the seasonal flu vaccine administered since July 1, 2010 **or**
 - At least 1 dose of monovalent 2009 H1N1 vaccine administered
- A detailed algorithm is available here:
http://www.michigan.gov/documents/mdch/Ped2_DoseFluRules_081712_395583_7.pdf

MDCH Rationale for Choosing the 2nd Approach

- The Michigan Care Improvement Registry (MCIR) is a robust immunization registry
 - 7.4 million individuals have a MCIR record
 - There are more than 90 million vaccines recorded in MCIR
 - There are over 2.2 million influenza vaccinations, including the monovalent 2009 H1N1 vaccine, recorded in MCIR for children currently 6 months through 8 years of age (as of August 1, 2012 with at least 1 MCIR flu record)
- **According to MCIR data, if the basic algorithm is used 135,606 children aged 6 months through 8 years would unnecessarily receive a 2nd dose of influenza.**
- Using MCIR saves money and minimizes unnecessary office visits
 - **Over \$1.38 million** would be spent on influenza vaccines for these children
 - Based on an average cost of \$10.25 per pediatric influenza vaccine
(<http://www.cdc.gov/vaccines/programs/vfc/cdc-vac-price-list.htm#flu>)
 - Unnecessary office visits would result in further costs for providers and parents.