SAVANNAH GA
INFECTIOUS DISEASE UPDATE

- Vaccination Theory vs Falsehoods
- Measles 2019
- Shingles Prevention
- Pneumonia Prevention
- Q & A
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RICK

- Senior AME
- ATP & Lear 60 Typed, Gulfstream G550 Typed
- 4000+ flt hours (1000+ turbine)
- Director of ID Training at MHUMC 2005-2016
- Past President of Savannah Aviation Association
- Honorary Medical Commander for 165th Airlift Wing
- Married 25 years!...9/24/19
- Must love dogs!!
- Sleep deprived
MEASLES 2019

U.S. Measles Cases by Year

*Provisional data reported to CDC’s National Center for Immunization and Respiratory Diseases
#Updated once a month
Worst start to the year for measles in a quarter century

Confirmed measles cases in January and February of each year

Note: Monthly data for 2004 is not available.
Source: Centers for Disease Control

THE WASHINGTON POST
Single-dose 0.5mL Vial
MEASLES, MUMPS,
AND RUBELLA VIRUS
VACCINE LIVE
M-M-R
Store frozen
Contains no preservatives
Rx Only
AN  
INQUIRY  
INTO  
THE CAUSES AND EFFECTS  
OF  
THE VARIOLE VACCINÆ,  
A DISEASE  
DISCOVERED IN SOME OF THE WESTERN COUNTIES OF ENGLAND,  
PARTICULARLY  
GLOUCESTERSHIRE,  
AND KNOWN BY THE NAME OF  
THE COW POX.  

BY EDWARD JENNER, M.D. F.R.S. &c.  

SECOND EDITION.  

London:  
PRINTED, FOR THE AUTHOR,  
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AND SOLD BY LOW, AN¥-WAXIA LANE; AND MURRAY AND MURRAY, FLEET STREET.  
1802.
Not protected against measles?
Get your measles vaccination.

Measles is a plane ride away. Since measles is still common in many countries, unvaccinated travelers continue to get measles in other countries and bring it into the U.S. and spread it to others.
TRAVELING ABROAD?
PROTECT AGAINST
MEASLES.

Open this tool on your mobile device or computer, check a few boxes, and see if you need a measles vaccine.

CDC.gov/Measles/Travel/
MEASLES TAKE HOME POINTS

- MMR is a live vaccine and CDC recommends:
  - All adults without **presumptive evidence of immunity** receive one or two doses of the MMR depending on risk category.
  - Post High School students without documentation or presumptive immunity require TWO doses of MMR a month apart.
  - HIV patients with CD4 cells > 200 cells/mm3 CAN receive the vaccine.
  - Advanced AIDS, Pregnancy, Transplant hosts or those with severe neomycin allergies are contraindications to the MMR.
MEASLES TAKE HOME POINTS

- International Travelers:

  - Should be vaccinated if they are without presumptive evidence of immunity
  - Adults and children older than 12 months should be given TWO doses separated by a month apart
  - The clinical course may be attenuated by giving MMR one dose post exposure if less than 72 hours out.
  - MMR titers are available thru LabCorp and Quest Diagnostics at a modest walk up price....(< $100 USD
<table>
<thead>
<tr>
<th>Shingrix&lt;sup&gt;®&lt;/sup&gt;</th>
<th>Zostavax&lt;sup&gt;®&lt;/sup&gt;</th>
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<tbody>
<tr>
<td>GlaxoSmithKline</td>
<td>Merck</td>
</tr>
<tr>
<td>Non-live, recombinant subunit vaccine</td>
<td>Live-attenuated vaccine</td>
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<tr>
<td>Two IM injections at 0 and 2-6 months</td>
<td>Single subcutaneous injection</td>
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<tr>
<td>Recommended by ACIP for patients ≥ 50 years old</td>
<td>Recommended by ACIP for patients ≥ 60 years old</td>
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<tr>
<td>97% effective against shingles for people aged 50 - 69 91% effective against shingles for people ≥ 70 years old</td>
<td>51% effective against shingles</td>
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<tr>
<td>88% effective against PHN</td>
<td>67% effective against PHN</td>
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The current CDC recommendations are:

- Recombinant Zoster Vaccine (Shingrix) is for all adults > 50 years of age
- Shingrix has been the preferred agent over Zostavax
- Shingrix is a TWO DOSE series separated by 2 to 6 months between the identical doses.
- There is NO maximum age for the shingles vaccine to provide some benefit
- Adults with a prior history of shingles (resolved) should be vaccinated
VACCINE TOOL BOX

- Influenza 2019 “Aged Impacts”…..Quadravalent…..High Dose
- Pneumococcal vax. Prevnar…..Pneumovax
- MMR…..Live and Two Doses if no prior Documentation
- Tetanus…Diptheria…Pertussis…..Tdap„„Q Decade
- Hepatitis A & B….Havrix…Recombivax….Twin Rix…0, 2, & 6
- Varicella…..Varivax…..ZostaVax(2006)…..single dose….live

**ShingRix: Oct. 2016 Two doses particulate/adjuvant**

- Polio….Inject.IPV…single dose
- Typhoid….oral(live)….Inject.
- Yellow Fever…..certification…extended stays…entry requirements
Q & A