# Shingles: Disease & Vaccine Update

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Paul R. LePage, Governor

Ricker Hamilton, Commissioner

# Reminders & Housekeeping

- This webinar is being brought to you by the Maine Immunization Program (MIP), part of Maine CDC, Department of Health & Human Services. There is no continuing education available.
- MIP has no relationship with vaccine manufacturers or distributers.
- All information within this webinar is up-to-date as of February 23, 2018. Please refer to the manufacturers websites for additional updates.



At the end of this webinar, participants will be able to:

- 1. Describe Shingles, how the disease progresses, and identify risk factors, symptoms, and complications from the disease.
- 2. Discuss the two vaccines available for Shingles including, but not limited to: storage and handling requirements, indications and the new ACIP recommendations.
- 3. Understand why Shingrix is now recommended over Zostavax.
- 4. Talk with patients about why they should receive Shingrix vaccine.



- Shingles is a viral infection primarily characterized by a painful rash located on the head or torso, usually on one side of the body. Anyone who has gotten the Chickenpox can get Shingles even children.
- Symptoms:
  - Pain, itching or tingling of the skin
  - Rash of blister-like sores
  - Fever, headache, chills (~20% of patients)
  - Upset stomach



- If a patient had Chickenpox as a child, the Herpes Zoster (HZ) virus is already inside their body.
  - Patients who never had the Chickenpox disease do not have the HZ virus inside their body, however the Chickenpox, or HZ, virus may be contracted through contact with an infected person.
  - Current research suggests the patients that have never had Chickenpox would benefit from vaccination.
- As the body ages the immune system cannot suppress the HZ virus as well, causing the virus to flare and symptoms to develop.
- About 1 in 3 people will develop Shingles at age 60 or older.
  - That's about 1 million cases per year

- Risk Factors:
  - Increasing a
  - Female (increased risk)
  - White (risk is 2x higher in whites than African Americans)
  - Trauma/surgery in affected dermatome



 Image: http://infectioncontrol.ucsfmedicalcenter.org/education

 Source: US CDC, NFID

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Slide 6	
СК6	balance the slide (text and graphics vs white space) Coaty, Kristen, 1/25/2018
LA6	Added graphic to help explain what a dermatome is Levesque, Ashley, 1/29/2018





- Those who have Shingles should avoid contact with the following people:
  - Pregnant women who have never had Chickenpox or the Varicella vaccine
  - Premature or low birth weight infants
  - Those with a weakened immune system
- There are currently no recommendations to stay home from work or school
- Transmission of Shingles virus is less contagious than Chickenpox.
   Only contagious before blisters have crusted
- Covering the rash greatly minimizes risk of transmission.

Source: US CDC

#### Treatment

- Blisters will begin to scab over in 7 10 days and the rash typically clears in 2 4 weeks.
- Treatment is fairly limited:
  - Acyclovir, Valacyclovir or Famciclovir
  - Pain medicines
  - Wet compresses, calamine lotion & colloidal oatmeal baths
- Best 'treatment' is prevention!





#### Prevention

- All children should receive two doses of Varicella vaccine per ACIP Recommendations.
- Adults should receive Shingles vaccine whether they had the Chickenpox or not.
- Two vaccines available in the US:
  - Zostavax
  - Shingrix



#### Zostavax

- Live Attenuated Zoster Vaccine
- Licensed in 2006 for those 60 years old and older
- Must be kept frozen
- Single dose administered subcutaneously
- Is 51% effective against HZ
  - Only ~35% effective for those over 70
  - Immunity wanes after 1-2 years
- Efficacy is 67% for postherpetic neuralgia (PHN)
- Low uptake for the vaccine, only about 30% of population vaccinated
- Contraindicated for people with immunosuppression

Source: NFID, US CDC

# Shingrix

- Adjuvanted Recombinant Zoster Vaccine
- Licensed October 2017 for those 50 years old and older
- Must be refrigerated antigen component must be mixed with adjuvant suspension
- 2 dose series administered intramuscularly in the deltoid and 0 and 2-6 months.
- Efficacy for HZ amongst the 4 groups studied ranges: 91.3% 97.9%
- Expected to potentially prevent 53,000 cases of Shingles and 4,000 cases of PHN per year.
- Contraindications: History of severe allergic reactions to components of the vaccine or after 1<sup>st</sup> dose. Additional studies are currently being conducted with individuals with immunosuppression.

### New ACIP Recommendation October 2017

- Shingrix is recommended for:
  - Prevention of herpes zoster and related complications for immunocompetent adults aged 50 years and older.
  - Prevention of HZ and related complications for immunocompetent adults who previously received zoster vaccine live (Zostavax)
- Shingrix is preferred over Zostavax for the prevention of HZ and related complications.

• US CDC accepted this ACIP Recommendation on January 26, 2018.

#### Why The Change of Recommendation?

- Vaccine efficacy against HZ and PHN is much higher in Shingrix
  - Current data suggests high efficacy in ALL age groups studied over 4 years
    - Ages 50-80
  - Efficacy for HZ amongst the 4 groups ranges: 91.3% 97.9%
  - Efficacy for HZ after 4 years: 87.9%
  - Efficacy for PHN in those 70 and older: 88.8%
  - Remember, Zostavax efficacy against HZ is 51% and against PHN is 67%
- Efficacy unknown for just 1 dose

#### Safety Profile

- All data currently shows there is no increased risk of adverse events.
- Most common events were site reactions and systemic symptoms which usually resolved in 2-4 days.
- Need additional safety data, but the vaccine is considered safe to use now with your patients.
- Need more data on co-administration with other vaccines.

#### Administration Safety



Source: US CDC

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### Talking With Patients About Shingrix

- Patient refusal should be considered temporary be sure to assess why the patient is refusing vaccination at EVERY visit. May be accomplished by:
  - Take an extra minute to find out why patient is refusing.
  - Make a firm, positive recommendation to get the vaccine.
  - Refer to another Provider if needed to finish series or for cost concerns.
    - Example: Refer patient to pharmacy for 2<sup>nd</sup> dose
- NFID Shingles Toolkit
- VIS Zoster Recombinant published 2/12/2018

## **Recalling Patients**

- Remember, Shingrix is a <u>2-dose series</u>
- Tips to vaccinate all adults aged 50 and older against Shingles:
  - Give the patient an appointment card.
  - Use recall reminders prior to 2<sup>nd</sup> appointment.
  - Assess dose completion of series-dosed vaccines at each patient encounter.
  - Offer vaccines in the late afternoon, evening & weekends.
  - Partner with other Provider to complete the series.
  - Designate an Immunization Champion within your practice.

#### ImmPact Scheduling Tracker

- There will be some changes in the ImmPact Scheduling Tracker to accommodate the new Shingrix recommendations
  - Zoster Live = Zostavax
  - Zoster Recomb = Shingrix

History		Add Immunization Edit C	Client Reports Print	Print Confidentia
Vaccine Group	Date Administered	Series Trade Name	Dose Owned? Reac	tion Hist? Ea
oster Live	01/10/2017	1 of 1	Yes	Yes
		Current Age: 73 years, 28 da	iys	
	ended by Selected Tra			
Ion-validated doses s	hould be confirmed.			
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Vaccine Group	Earliest Date	Recommended Date	Overdue Date	Latest Date
Vaccine Group <u>Hep A</u>	Earliest Date 01/02/1946	Recommended Date 01/02/1946	Overdue Date 12/02/1946	Latest Date
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Hep A	01/02/1946	01/02/1946	12/02/1946	Latest Date
Hep A HepB	01/02/1946 01/02/1945	01/02/1946 01/02/1945	12/02/1946 04/02/1945	Latest Date
<u>Hep A</u> <u>HepB</u> Influenza	01/02/1946 01/02/1945 07/02/1945	01/02/1946 01/02/1945 07/02/1945	12/02/1946 04/02/1945 08/02/1945	Latest Date
Hep A HepB Influenza Meningococcal	01/02/1946 01/02/1945 07/02/1945 03/02/1945	01/02/1946 01/02/1945 07/02/1945 01/02/1956	12/02/1946 04/02/1945 08/02/1945 01/02/1958	Latest Date
Hep A HepB Influenza Meningococcal Pneumo-Poly	01/02/1946 01/02/1945 07/02/1945 03/02/1945 01/02/1947	01/02/1946 01/02/1945 07/02/1945 01/02/1956 01/02/2010	12/02/1946 04/02/1945 08/02/1945 01/02/1958 01/02/2011	Latest Date
Hep A HepB Influenza Meningococcal Pneumo-Poly Polio	01/02/1946 01/02/1945 07/02/1945 03/02/1945 01/02/1947 02/13/1945	01/02/1946 01/02/1945 07/02/1945 01/02/1956 01/02/2010 03/02/1945	12/02/1946 04/02/1945 08/02/1945 01/02/1958 01/02/2011 05/02/1945	Latest Date
Hep A HepB Influenza Meningococcal Pneumo-Poly Polio Td	01/02/1946 01/02/1945 07/02/1945 03/02/1945 01/02/1947 02/13/1945 01/02/1952	01/02/1946 01/02/1945 07/02/1945 01/02/1956 01/02/2010 03/02/1945 01/02/1952	12/02/1946 04/02/1945 08/02/1945 01/02/1958 01/02/2011 05/02/1945 02/02/1952 01/02/1959	Latest Date

View Explanation of Schedule Highlighting

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#### ImmPact Scheduling Tracker

Remember – patients who have previously been vaccinated with Zostavax are recommended to be revaccinated with 2 doses of Shingrix. Don't wait, vaccinate!

LEARN ABOUT SHINGLES

Maine Center for Disease Control and Prevention



Dalton M., Hogue M., Schaffner W. *Shingles Vaccines: What You Need To Know*. NFID. Live Webinar. December 6, 2017.

Shingles. U.S. CDC. DHHS. www.cdc.gov/shingles

NFID Shingles Toolkit: <u>http://www.nfid.org/shingles-awareness-</u> toolkit

VIS: <u>https://www.cdc.gov/vaccines/hcp/vis/current-vis.html</u>



#### Maine Immunization Program Main Line: 207-287-3746 Education Line: 207-287-9972

#### Thank you!!



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