A Prescription to Expand Vaccine Access:

Partnering with Pharmacists
Workshop Presenters

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  – University of Southern California
• Anh Ly, Pharm.D.
  – Ralphs Grocery Company Pharmacies
• Misha Osborne, Pharm.D.
  – Safeway Pharmacies
• Michelle Tenerelli, RPh
  – Rite Aid Corporation Pharmacies
Why Pharmacists?

- Inability to achieve national goals for adult and adolescent vaccination
- Convenience and accessibility
- Trust in the pharmacist (Gallop Poll)
  - Nurses: 84
  - Druggists, pharmacists: 73
  - Medical doctors: 70
- Cost effective
- ACA removes cost barrier, ↑ # needed to vaccinate
- Highly trained
Pharmacist Training

- 4 year curriculum (after 4 yr BS)
  - all Pharm.D. since 1970s in CA

- Certificate based IZ training
  - During Pharmacy school
  - Post-Grad
  - 20+ hours with injection workshop (IM/SC)
    - Deltoid and SC upper arm
    - APhA program has trained > 180,000 pharmacists

- BLS, BBP, HIPAA
Immunization and Pharmacists

- CA Pharmacists authorized to vaccinate since 1995

- B&P 4052
  - Administer immunizations pursuant to a protocol with a prescriber
  - No age or vaccine limits
  - Protocol not patient specific
# Adult Immunizations

<table>
<thead>
<tr>
<th>Vaccine ▼</th>
<th>Indication ▼</th>
<th>Pregnancy</th>
<th>Immunocompromising conditions (excluding human immunodeficiency virus [HIV])</th>
<th>HIV infection</th>
<th>Men who have sex with men (MSM)</th>
<th>Heart disease, chronic lung disease, chronic alcoholism</th>
<th>Asplenia</th>
<th>Chronic liver disease</th>
<th>Diabetes, kidney failure, end-stage renal disease, receipt of hemodialysis</th>
<th>Health-care personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza</td>
<td>1 dose TIV annually</td>
<td>1 dose TIV or LAIV annually</td>
<td>1 dose TIV annually</td>
<td>1 dose TIV or LAIV annually</td>
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<tr>
<td>Tetanus, diphtheria, pertussis (Td/Tdap)</td>
<td>Substitute 1-time dose of Tdap for Td booster; then boost with Td every 10 yrs</td>
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<tr>
<td>Varicella</td>
<td>Contraindicated</td>
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</tr>
<tr>
<td>Human papillomavirus (HPV) Female</td>
<td>3 doses through age 26 yrs</td>
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<tr>
<td>Human papillomavirus (HPV) Male</td>
<td>3 doses through age 26 yrs</td>
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<tr>
<td>Zoster</td>
<td>Contraindicated</td>
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</tr>
<tr>
<td>Measles, mumps, rubella (MMR)</td>
<td>Contraindicated</td>
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<tr>
<td>Pneumococcal (polysaccharide)</td>
<td>1 or 2 doses</td>
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<tr>
<td>Meningococcal</td>
<td>1 or more doses</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>2 doses</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>3 doses</td>
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</tbody>
</table>
Protocols and Pharmacists

Vaccines per protocol

Minimum age

N=101

18 + yrs, 19%
< 7 yrs, 16%
11-17 yrs, 26%
7-10 yrs, 39%

81% can vaccinate teens

17% CANNOT vaccinate pregnant women

Pilisuk, T. J Am Pharm Assoc. 2010;50:134–139
• 65% say protocol restrictions have limited their ability to vaccinate in the past 12 months

• 73% of pharmacists feel the physician signed protocol is unnecessary
Opportunity Analysis

Expected Net Savings PMPY

% of Vaccination at Pharmacy

Ralphs Grocery Company

- Division of The Kroger Company Family of Pharmacies
- 89 Pharmacies across Southern CA
- Clinical Programs
  - Immunizations
  - Travel Clinic
  - Health and Wellness Programs
  - Disease-state management
Immunization Program

- Under protocol, we can administer vaccinations to patients ≥ 11 years
- Over 230 Immunization certified pharmacists in CA alone
- Almost 40,000 vaccines were administered in fiscal year 2011 (Southern CA only)
Vaccines Per IMZ Protocol

- Influenza
- Tetanus, Diphtheria, Pertussis (Td/Tdap)
- Pneumococcal
- Hepatitis A
- Hepatitis B
- Meningococcal
- Measles, Mumps, Rubella
- Herpes Zoster
- Human Papillomavirus
Vaccines Per Travel Protocol

- Typhoid Vaccine (IM and PO formulations)
- Japanese Encephalitis Vaccine (Ixiaro®)
- Rabies Vaccine (Pre-exposure only)
- Yellow Fever Vaccine (pending)
Partnerships Past and Present

- Senior population
- Private businesses
  - Office buildings
  - Employer groups
- Underserved/Uninsured communities
  - CPG partnership
  - Salvation army
Partnerships Past and Present (Cont.)

• Collaborating with prescriber offices / Accountable Care Organizations (ACOs)
  – Zostavax®

• Medication Therapy Management
  – Increase Opportunity to Education on Vaccinations
  – Increase ability to identify/screen high risk patients
    • Medication and Social History
Goals and Strategies

• **Goals**
  – Expand access to immunizations
  – Educate patients on importance of up-to-date vaccinations
    • Prevention vs. Treatment
    • Childhood vs. Adult immunizations
    • Economic impact – without vaccinations
  – Increase awareness/education on insurance coverage for vaccinations
Goals and Strategies (cont.)

• Targeting population groups
  – Health fairs
  – Free promotional screenings
  – Presentations at senior homes
  – MTM

• Utilizing previously established partnerships
  – External
  – Internal
Goals and Strategies (cont.)

• Presentation at Healthcare Providers’ Association/Conferences
  – Nursing Associations
  – Diabetes Educators
  – Social Workers

• Medication Reconciliation
  – Collaboration with Hospitals and Pharmacy Benefits Managements (PBMs)
Lessons Learned

• Barriers
  – Third Party reimbursement
  – Employer / Consumer buy-in
  – Competition

• Persistence
• Creativity
• Networking
• Collaborative practice maximizes patient outcomes
RITE AID AND IMMUNIZATIONS
The Importance of Vaccines
Rite Aid started providing vaccines in CA in 2004 at a limited number stores, now all CA Rite Aid’s provide vaccines.

- Rite Aid has
  - 584 stores in CA
  - 144 stores in Los Angeles County

- We have 8 travel clinics, 3 in CA
  - Full travel consults
  - All travel vaccines on protocol
Immunization Training required for all pharmacists. Original training is a 20-hour CDC approved program.

Ongoing Immunization Training
- Online – yearly
  - Immunization Update CE (3 hours)
  - Exposure Control
- CPR for Health Care Providers – every 2 years
<table>
<thead>
<tr>
<th>Vaccine Type</th>
<th>Disease/Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza</td>
<td>Hepatitis A</td>
</tr>
<tr>
<td>Meningococcal</td>
<td>Hepatitis B</td>
</tr>
<tr>
<td>Measles</td>
<td>Haemophilus Influenzae</td>
</tr>
<tr>
<td>Mumps</td>
<td>Human Papillomavirus</td>
</tr>
<tr>
<td>Rubella</td>
<td>Tetanus</td>
</tr>
<tr>
<td>Pneumococcal</td>
<td>Diphtheria</td>
</tr>
<tr>
<td>Varicella</td>
<td>Pertussis</td>
</tr>
<tr>
<td>Zoster (Shingles)</td>
<td>Poliovirus</td>
</tr>
</tbody>
</table>
VACCINE IN STOCK

- All store have or can get the next day if out
  - Influenza
    - Preservative free
    - Latex free
  - Tdap
  - Pneumococcal
- Most stores have or can get 3-5 days
  - Zoster
- Rest of vaccine can vary by store and demand but can be ordered within 2-5 days
Rite Aid main focus is the underimmunized populations of adolescents and adults but can provide immunizations on protocol at all Rite Aid location during regular business hours for:

- Injectable vaccines over the age of 3 years
- Intranasal for those over the age of 2 years

Pharmacists follow CDC and ACIP Guidelines

Protocol also allows for other competent authorities
## NUMBER OF VACCINES IN LA COUNTY

### 2011
- Influenza: 54,000
- Pertussis: 12,000
- Zostavax: 3,000
- All vaccines: 70,000

### 2012 (9-20-12)
- Influenza: 23,000
- Pertussis: 3,000
- Zostavax: 6,000
- All vaccines: 33,000
COMMUNITY OUTREACH

- Influenza
  - Business Outreach
  - Internal store promotion
  - Corporate promotion
  - Local health fairs
- Pertussis
  - Secondary school outreach
- Pneumococcal
  - Internal store promotion
  - All influenza clinics
PARTNERSHIPS

› Vaccine Manufactures
   ➤ National publicity on specifics vaccines
   ➤ Coordinate internal promotions

› Public Health Departments
   ➤ Pertussis outbreak
   ➤ Influenza school outreach

› Private Schools
   ➤ Pertussis clinics on site
   ➤ Provide flyers to sent out to parents
REIMBURSEMENT

- Recognition of pharmacist as an administrator of vaccines for reimbursement
  - Medicare part B and D – Yes
  - Advantage plan billing – Not always
  - State medical – No but we accept the payment
  - Third party plans some can capture the MA code
    - Medico
    - Express Script
REIMBURSEMENT

- Third Party that cover vaccines
  - Medical Billing- Aetna, Cigna, UHC
    - Multiple vaccines are covered
  - Federal Employee Plan, CalPERS
  - Medical – product only

- Cash
  - Travel vaccines
  - Adult vaccines other than influenza, pneumococcal, and zoster.
Vons/ Pavilions Pharmacy

Misha Osborne, Pharm D
Patient Care Service Manager
History

• Started 12 years ago giving community immunizations
  – UOP Class 2000 1\textsuperscript{st} year pharmacist trained
• 2004 Vons (Safeway) trained company wide for those RPh’s interested in providing immunizations
• 2008 Vons (Safeway) made Immunization training mandatory for all RPh’s
• Today all Vons (Safeway) stores able to provide vaccines
Vons Immunization Program

• Done by Protocol with collaborating MD
• Follow ACIP guidelines.
• Able to do ages 8 and older
  – Exception is Flumist
  – 5 years and older for flumist
• Most immunizations available daily as a walk in bases
<table>
<thead>
<tr>
<th>Immunizations Provided Via ACIP Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hepatitis A</strong></td>
</tr>
<tr>
<td><strong>Influenza Vaccine</strong></td>
</tr>
<tr>
<td><strong>MMR Vaccine</strong></td>
</tr>
<tr>
<td><strong>HPV Vaccine</strong></td>
</tr>
<tr>
<td><strong>Typhoid Vaccine</strong></td>
</tr>
<tr>
<td><strong>Tetanus-Diptheria(Td)</strong></td>
</tr>
<tr>
<td><strong>Haemophilus influenzae B Vaccine</strong></td>
</tr>
<tr>
<td><strong>Hepatitis B</strong></td>
</tr>
<tr>
<td><strong>Pneumococcal Vaccine</strong></td>
</tr>
<tr>
<td><strong>Varicella Vaccine</strong></td>
</tr>
<tr>
<td><strong>Shingles Vaccine</strong></td>
</tr>
<tr>
<td><strong>Polio Vaccine</strong></td>
</tr>
<tr>
<td><strong>Meningococcal Vaccine</strong></td>
</tr>
<tr>
<td><strong>Tetanus-Diptheria-Pertussis (Tdap Adult)</strong></td>
</tr>
</tbody>
</table>

*Flumist * Available for 5 and older.
Special Training Immunizations

- Travel Stores available to provide
  - Yellow Fever
  - Ixiaro (Japanese Encephalitis)
  - Rabies
- Specialty Medications also done in many of our stores.
  - Atypical antipsychotics
  - Treatment/ prevention of osteoprosis
  - Hormone replacement
  - Prevention of deep vein thrombosis
  - Anemia treatments
Vons LA County Flu Stats

<table>
<thead>
<tr>
<th>Year</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8,422</td>
<td>13,844</td>
<td>21,737*</td>
<td>12,108</td>
<td>13,134*</td>
<td>5,300</td>
</tr>
</tbody>
</table>

*H1N1  
*11/12/11  
58% of 2011

- Each Flu Season has challenges
  - 2009 H1N1
  - 2010 Fatigue (RPh and Public)
  - 2011 Safeway host upgrade incomplete data
  - 2012 58% of last year.
    - Heat?
    - More competition?
    - Lack of Hype/ Advertisement?
How To Improve Vaccine Rates?

• RPh readily available and convenient
  – Challenge: Making RPH comfortable on all vaccines

• Healthy People 2020- goals to reach our patient population
  – Challenge: Educating public, overcome barriers (I.E. Zostavax giving them Herpes)

• Immunization coverage
  – Improving but have a long way to go for general population
  – Primarily see 50 and older
  – 65 and over covered so easy sell

• We report to CAIR
Questions?