



THE NATIONAL VACCINE PROGRAM OFFICE

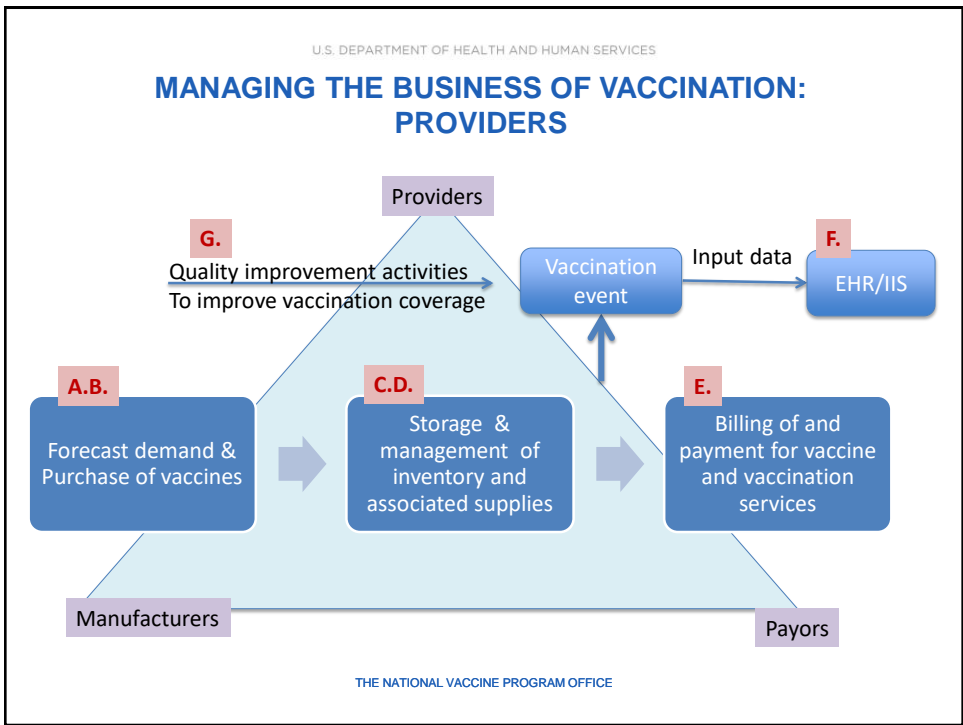
USING VACCINATION TECHNOLOGIES

2017 NATIONAL ADULT INFLUENZA IMMUNIZATION SUMMIT
Session:
What's Coming in Adult Vaccines and Vaccinations?
New Technology
& New Vaccines on the Short Term Horizon

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES



CDC PRICE LIST

Vaccine	Brandname/ Tradename	NDC	Packaging	CDC Cost/ Dose	Private Sector Cost/ Dose	Contract End Date	Manufacturer	Contract Number
Hepatitis A-Adult [3]	Vaqta®	00006-4096-02	10 pack – 1 dose syringe	\$27.68	\$66.91	6/30/2017	Merck	200-2016-90100
		00006-4841-41	10 pack – 1 dose vial	\$25.73	\$64.21			
Hepatitis A Adult [3]	Havrix®	58160-0826-11	10 pack - 1 dose vial	\$25.73	\$63.72	6/30/2017	GlaxoSmithKline	200-2016-90099
		58160-0826-52	10 pack - 1 dose syringe	\$27.68	\$63.10			
Hepatitis A-Hepatitis B Adult [3]	Twinrix®	58160-0815-52	10 pack - 1 dose syringe	\$54.66	\$92.50	6/30/2017	GlaxoSmithKline	200-2016-90099
Hepatitis B-Adult [3]	Recombivax	00006-	10 pack - 1	\$23.78	\$59.09	6/30/2017	Merck	200-2016-

<https://www.cdc.gov/vaccines/programs/vfc/awardees/vaccine-management/price-list/index.html>

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CODING AND BILLING WEBSITE

National Adult and Influenza Immunization Summit

HOME WORKGROUPS ANNUAL SUMMIT SUMMIT AWARDS ADULT STANDARDS WORLD SUMMITS RESOURCES

Coding and Billing for Adult Vaccinations

A common problem that has been expressed by providers of adult vaccinations has been the intricacies and complexities associated with coding and billing for those services. Much discussion at meetings of the National Adult and Influenza Immunization Summit ("Summit") has focused on opportunities to provide information to providers to reduce the errors and confusion associated with coding and billing for adult vaccines. The Summit's Access and Provider Workgroup has developed this website in response to this identified need.

At this one web location, you will find the top questions identified with coding and/or billing for adult vaccinations, scenarios that detail how to go about coding and billing for adult vaccines.

Coding and Billing Subgroup Members

- > Carolyn Bridges, CDC
- > Laura Lee Hall, Sustainable Healthy Communities
- > David Kim, CDC
- > Don Nicholson, TX Dept of Health
- > Jill Powelson, AMGA
- > Angela Shen, NVPO

<https://www.izsummitpartners.org/naiis-workgroups/access-provider-workgroup/coding-and-billing/>

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BUSINESS SOLUTIONS

- Public and private sector settings
- Across patient age cohorts & geographic settings
- In various practice types including large health systems, private practices, group practices
- **GOAL:** expand accessibility of vaccines to all patients and all health care provider types in all settings to expand immunization services and improve vaccination coverage

BUSINESS SOLUTIONS

- Supporting the vaccination model: buy, vaccinate and bill (report)
- Automating purchasing, management, dispensing to reduce barriers to vaccinating for practices
- Billing, reporting solutions

MANUFACTURERS PARTICIPATION

- Hotlines to assist coders – e.g. guidance for claims preparation, appeals, and specific payers' vaccine coverage and reimbursement policies
- Organizational initiatives (e.g. Group purchasing organizations, Vaccine purchasing groups)
- Flexible Contract Terms and Conditions
 - Extend time for payment
 - On-invoice discounts
 - Incremental discounts based on specified criteria
 - Return policies, etc.
 - Large volume ordering may not be required

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COMPLEMENTARY TO MANUFACTURER OPTIONS, ENTERPRISES EMERGING TO INTEGRATE ASPECTS VACCINE MANAGEMENT FOR PROVIDERS

Purchase or Acquisition of Vaccines	Management of Inventory	Billing Services	Data Management
<ul style="list-style-type: none">• Placement of vaccine orders on behalf of the provider	<ul style="list-style-type: none">• Provision of refrigerator/freezer• Systems to track private versus VFC vaccine stock• Management of vaccine expiry (use of inventory by expiry date, returns)	<ul style="list-style-type: none">• Assessment of revenue forecast• Negotiation of insurance contracts• Set up insurance credentialing• Screening for insurance eligibility• Direct submission of claims to insurers• Potential to receive negotiated administrative fee	<ul style="list-style-type: none">• Capability to integrate with immunization registry systems• Compatibility with electronic health record software• Compatibility with practice management software• System generated patient reminders

Slide from Quinn: Third Immunization Congress 2016: Financing across the lifespan (April 2016)

VACCINE TECHNOLOGIES

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FUTURE OF VACCINE DELIVERY METHODS

- Multiple carrier systems
 - Liposomes, microspheres, nanoparticles
 - Control how antigen is presented to immune system to allow for sustained release, cellular targeting
- Needle-free patch
 - Dendritic cells engaged to present antigen delivered by microneedles of sugar which dissolve
- Inhaled and oral vaccines
 - Delivery of antigen into lungs – pulmonary immune response; Or into gut - engaging GALT
 - Would mimic entry of many pathogens
 - Also potential engagement of mucosal immunity

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FUTURE OF VACCINE DELIVERY METHODS

- **Microneedle arrays**
 - Also engaging dendritic cells in the skin
 - Arrays (patches) of microneedles less than 1mm long
- **Transcutaneous immunization (TCI)**
 - Again, trying to engage skin associated immune cells
 - Techniques to create abrasions in the skin where the antigen would be introduced
- **Adjuvants matter – making a difference in vaccine design**

SMART REFRIGERATION

- **These are purpose-built, pharmaceutical-grade vaccine storage and management systems**
 - More than just a freezer or refrigerator
 - May have design features (e.g. door-less) to ensure temperature stability, even during heavy, continuous use
 - Have integrated temperature monitoring, recording, alerting
 - May allow for precise inventory management, such as automatic stock rotation, real time stock levels, alerts for low stock or near-expiry stock, etc.
 - Allows for EHR integration - saves time and eliminates transcription and billing errors
 - May feature automatic back-up in case of main power outage

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MANY THANKS

- NAIS partners
- LJ Tan, Immunization Action Coalition
- Gus Birkhead, NVPO
- Walt Orenstein, Emory Vaccine Center

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