10th journées annuelles de santé publique: Applying Science to Immunization Programs The Role of Expert Committees

Advisory Committee on Immunization Practices

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October 26, 2006
Montreal, Quebec



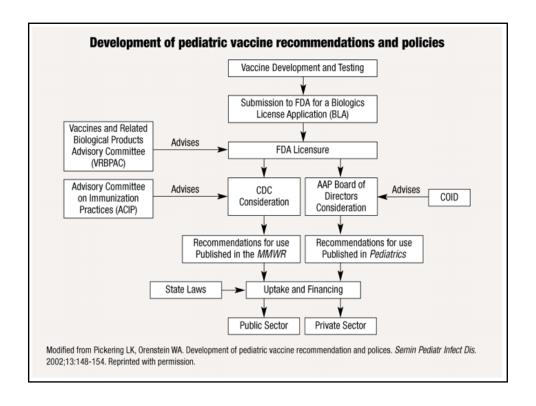
DEPARTMENT OF HEALTH AND HUMAN SERVICES
CENTERS FOR DISEASE CONTROL AND PREVENTION



Objectives

- To review the process of immunization policy development in the U.S.
- To discuss the responsibilities, structure, and function of the ACIP
- To review the interaction of ACIP with organizations and societies in the public and private sectors
- To summarize key issues facing the ACIP

Cette présentation a été effectuée le 26 octobre 2006, au cours du Symposium "Mettre la science au service des programmes d'immunisation, le rôle des comités d'experts" dans le cadre des Journées annuelles de santé publique (JASP) 2006. L'ensemble des présentations est disponible sur le site Web des JASP, à l'adresse http://www.inspq.qc.ca/jasp.



ACIP Responsibilities

- Since 1964: Provides advice and guidance to Office of Secretary, DHHS and Director, CDC on most effective means to prevent vaccinepreventable diseases in the civilian population
 - Antigens and related agents (e.g. vaccines, antisera, immune globulins, antiviral agents, chemotherapy and chemoprophylaxis)
 - Licensed vaccines and unlicensed vaccines if warranted

ACIP Responsibilities

- Since 1993: Vaccines for Children (VFC) Program
 - Unique statutory authority established by
 Omnibus Budget Reconciliation Act of 1993 (42 U.S.C. § 1396s) gives ACIP authority to determine the vaccines, number of doses, schedule and contraindications for the VFC
 - VFC is a \$1.5 billion annual entitlement program

Advisory Committee on Immunization Practices

Structure

- 15 voting members including the chair
 - 4 year terms
 - CDC nominates, OS DHHS selects
 - Chairman selected from current members
- 8 ex officio members representing CMS, DOD, DVA, FDA, HRSA, IHS, NIH, NVPO,
- 22 liaison members representatives of professional societies and organizations responsible for vaccine development and immunization programs

ACIP Liaison Organizations

- American Academy of Family Physicians American Academy of Pediatrics America's Health Insurance Plans

- American College Health Association
- American College of Obstetricians and Gynecologists American College of Physicians
- American Medical Association
- American Osteopathic Association
- American Pharmacists Association
- Association of Teachers of Preventive Medicine
- **Biotechnology Industry Organization**
- Canadian National Advisory Committee on Immunization
 Healthcare Infection Control Practices Advisory Committee
 Infectious Diseases Society of America
 London Department of Health
 National Association of County and City Health Official
 National Foundation for Infectious Diseases
 National Immunization Council & Child Health Program
 National Modical Association

- **National Medical Association**
- National Vaccine Advisory Committee Pharmaceutical Research & Manufacturers of America
- Society for Adolescent Medicine

Advisory Committee on Immunization Practices

Function

- 3 meetings annually February, June, and October
- Agenda items
 - Solicited from ACIP members, liaisons, CDC staff and others using standard format
 - Finalized by ACIP Chair, Executive Secretary, ACIP Steering Committee
- Follow FACA* rules and procedures
- Recommendations published in MMWR

^{*} Federal Advisory Committee Act

Expertise of ACIP Members

- Infectious diseases
- Immunology
- Pediatrics
- Internal medicine
- Public health, preventive medicine
- Vaccine research and policy
- Cost-effectiveness
- Consumer concerns

Advisory Committee on Immunization Practices

- Working Group (WG) Function
 - Develop draft policies/options for review/vote by full ACIP
 - Work by teleconference throughout the year, and before/during ACIP meetings
 - WG guidelines regularly updated
 - WG is chaired by ACIP member; must include at least 1 other ACIP member
 - Other members: lead CDC staff member, other CDC staff, ex officio representatives, liaisons and consultants
 - WG may be disbanded when work complete; new WGs formed as required

ACIP Working Groups

- Permanent (4)
 - -Adult Immunization Schedule
 - -General Recommendations
 - -Childhood/Adolescent ("Harmonized")
 Schedule
 - -Influenza Vaccine

ACIP Working Groups

- Task Oriented WGs (as of Oct 2006)
 - -Evidenced Based Recommendations
 - -Human Papillomavirus Vaccine
 - -Herpes Zoster (Shingles) Vaccine
 - -Meningococcal Vaccine
 - -Rabies
- New WGs being established
 - -Pneumococcal Vaccines
 - -Vaccines During Pregnancy
 - -Japanese Encephalitis (JE) Vaccine

Key Documents

- ACIP Charter –amended July 2006
- ACIP Policies and Procedures –Oct 2002
- Guidelines for Working Groups
 - Describe WG purpose, composition, approach to potential conflicts of interest, etc – updated Sept 2006
 - Membership list of WGs
 - Calendar of ACIP activities
- New member orientation booklet 2006

Advisory Committee on Immunization Practices

CDC Management

- Executive Secretary
 - Leads CDC management of ACIP
 - Assures meetings follow guidelines, approves meeting agendas, guides development/revision of procedures, charter, and other documents
 - Provides briefing to the CDC Director
- National Center for Immunization & Respiratory Diseases (NCIRD/CDC)
 - Provides management support services
 - 2 full-time staff members
 - Assistant to the Director for Immunization Policy (Medical Officer)
 - ACIP Program Operations Assistant

CDC Management

- ACIP Steering Committee
- CDC Federal Advisory Committee Management
 - Provides FACA support and liaison with DHHS
- CDC Office of General Counsel
 - Advice on legal questions (e.g., potential conflicts of interest)
- Funding for ACIP Operations

Advisory Committee on Immunization Practices

Steering Committee

- Coordinates ACIP Activities across the Coordinating Center for Infectious Diseases (CCID)
- Develops consensus CDC position on: ACIP issues, policies and procedures, ACIP meeting agendas, nominees for ACIP
- Convened by Executive Secretary with ACIP Chair
- Composition
 - Director, NCIRD
 - Representatives from CCID Centers
 - AD for Immunization Policy
 - ACIP Program Operations Assistant
 - Ex officio member representing FDA

Implementation of Civilian Immunization Programs in the U.S.

- Government: federal, state, and local
- Private industry
- Academic institutions
- Private providers
- Insurers

Childhood Immunization Policy Recommending Bodies

- U.S. Advisory Committee on Immunization Practices
- American Academy of Pediatrics Committee on Infectious Diseases
- American Academy of Family Physicians

Immunization Policy Product: Two Immunization Schedules

- ACIP, AAP, and AAFP produce a "harmonized" childhood and adolescent immunization schedule
 - First harmonized in 1994
 - Before 1994, differing schedules existed
- ACIP, AAFP produce a harmonized adult immunization schedule
- Schedules are updated once annually
- Look at the complete schedule, with each vaccine in the context of the other vaccines

Evidence Considered in Immunization Policy Development

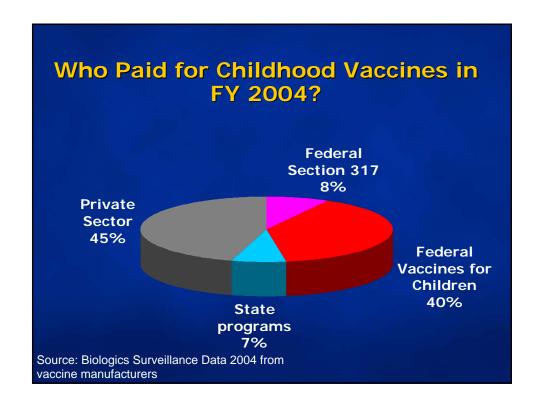
- Preventable burden of disease
- Efficacy and effectiveness in various age groups and population
- Safety of the vaccine
- Interactions with other vaccines
- Economic analysis

Types of ACIP Recommendations

- Universal use
 - Age-based recommendation
 - -Least confusing and easiest to implement
 - Vaccine must benefit all
- Risk-based
 - Medical, occupational, behavioral risk
 - Difficult for providers to identify those who should be vaccinated
 - Much less well implemented than universal

Assuring Purchase of Recommended Vaccines

- Shared public sector and private sector responsibility
- Cost of vaccines to parents is a significant barrier to vaccination
- Adequate financing of vaccines is critical to successful implementation



Federal Government Role in Purchasing Childhood Vaccines

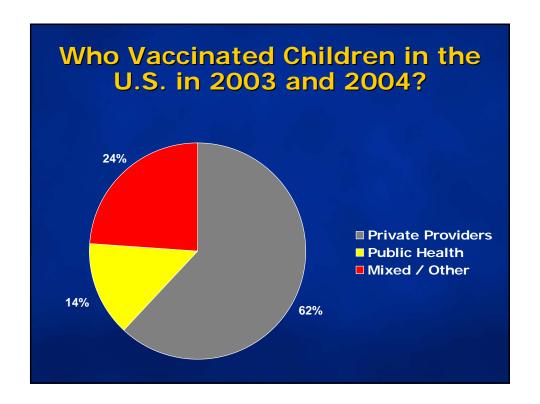
- Vaccines for Children program (VFC)
 - Entitlement to certain vulnerable children
 - -45% of young children eligible for VFC
 - Mandatory funding
 - Inclusion of vaccines in VFC is determined by the U.S. ACIP
- Section 317 vaccine funding
 - Discretionary
 - No restrictions on vaccine or population

Private Sector Role in Vaccine Financing

- Private health insurance usually includes immunization benefit
- Some children have insurance that does not cover vaccines
 - In general, their parents must pay for the vaccines
 - Only about 2% of the U.S. childhood population

State Government Role in Purchasing Vaccine

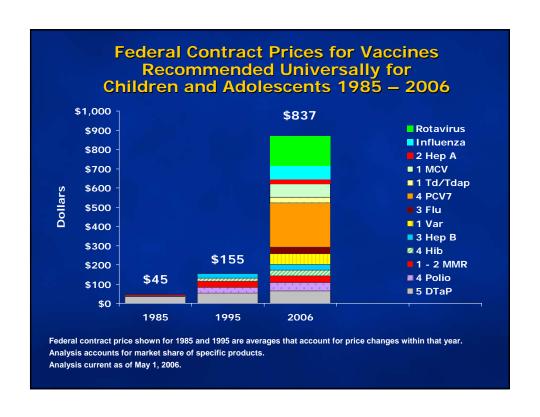
- Varies substantially by state
 - Most states contribute some funding
- Some states have purchase policies in which they guarantee purchase of all vaccines
- States regulate most insurance companies and can mandate inclusion of vaccines into insurance packages



How Does Public Health Reach Children

- VFC program has 45,000 provider sites
 - 75% of sites are private providers
 - 25% are public sector sites
- Collectively, VFC providers vaccinate 90% of children
 - VFC vaccine for VFC-eligible children
 - Private purchase vaccine for other children
- Improving VFC providers' practices improves vaccinations for almost all children

1995 (10)	2005 (13)
Magalag	Magalag
	Measles
	Rubella
	Mumps
Diphtheria	Diphtheria
Tetanus	Tetanus
Pertussis	Pertussis
Polio Polio Hib (infant) HepB Varicella	Polio
	Hib (infant)
	HepB
	Varicella
	Pneumococcal Disease
	Influenza
	IIIIIuciiza
	Pertussis Polio Hib (infant) HepB



Conclusions

- Routine immunizations provide a tremendous benefit to infants, children, adolescents, adults and to society
- Immunization is a shared public / private responsibility
- The ACIP is a well functioning, well respected FACA committee
- Many challenges face the ACIP & implementation of immunization programs in the US, including vaccine financing, vaccine supply and vaccine acceptance issues

