Vaccine Supply

Advisory Committee on Immunization Practices

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Outline of Presentation

- I. Influenza Vaccine Production, Distribution, Administration, and Disease
- II. Vaccines Currently with Supply Issues
- III. Hib Vaccine Utilization Survey





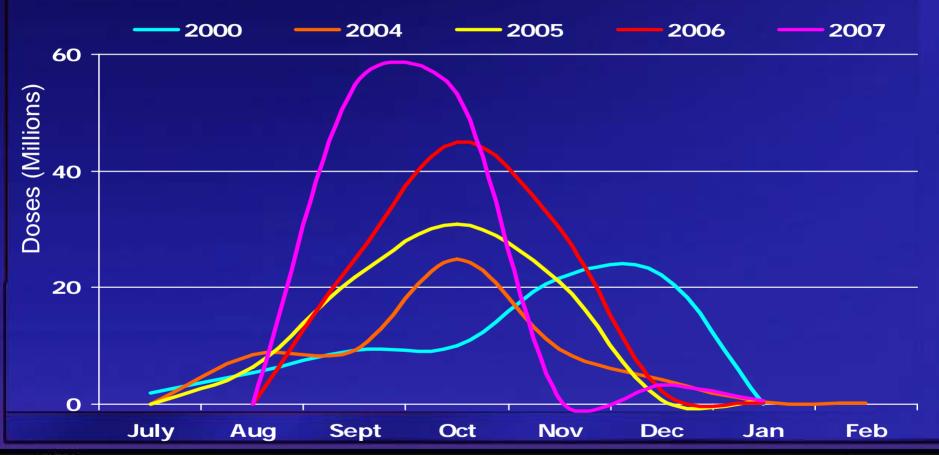
Cumulative Monthly Influenza Vaccine Distribution







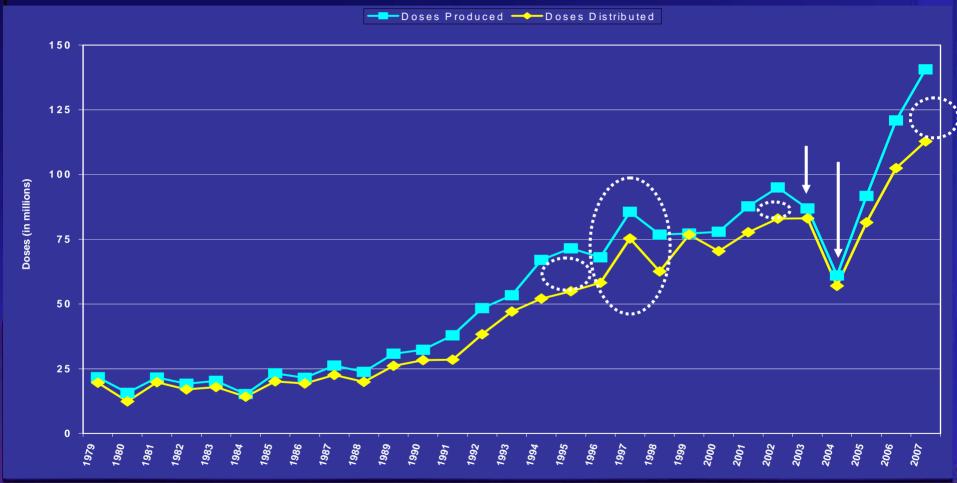
Monthly Influenza Vaccine Distribution







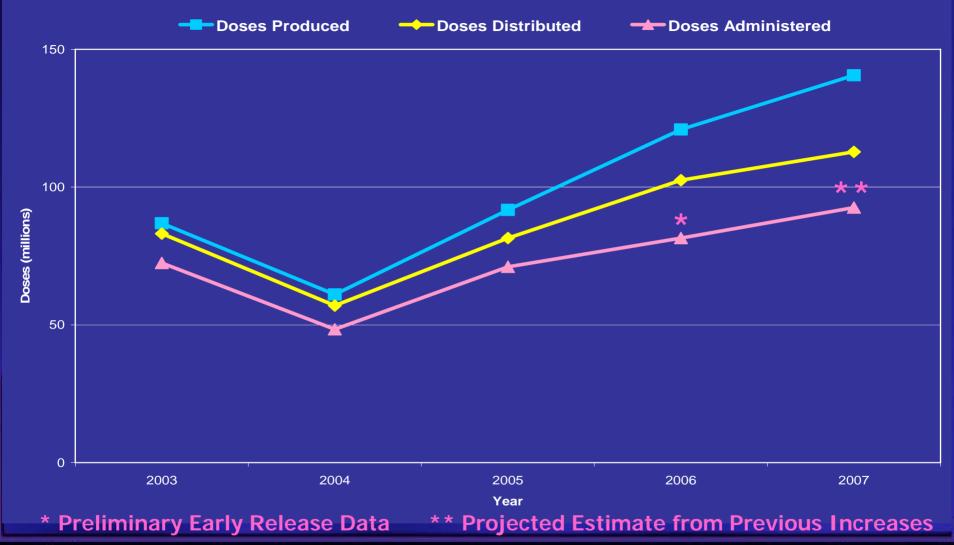
Projecting Demand in a Changing World (Influenza)







Influenza Vaccine Use







Vaccine Distribution and %ILI Timing 2000-01









Vaccine Distribution and %ILI Timing 2004-05









Vaccine Distribution and %ILI Timing 2005-06

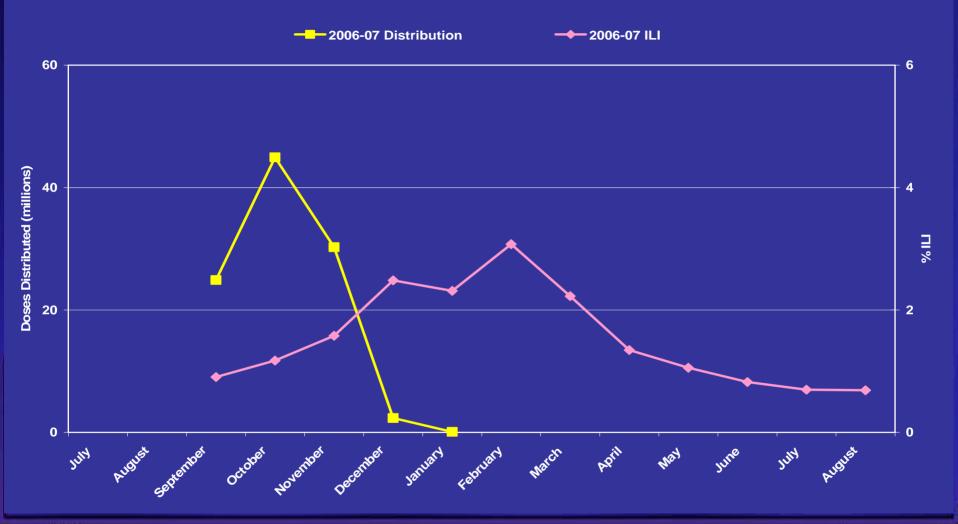








Vaccine Distribution and %ILI Timing 2006-07







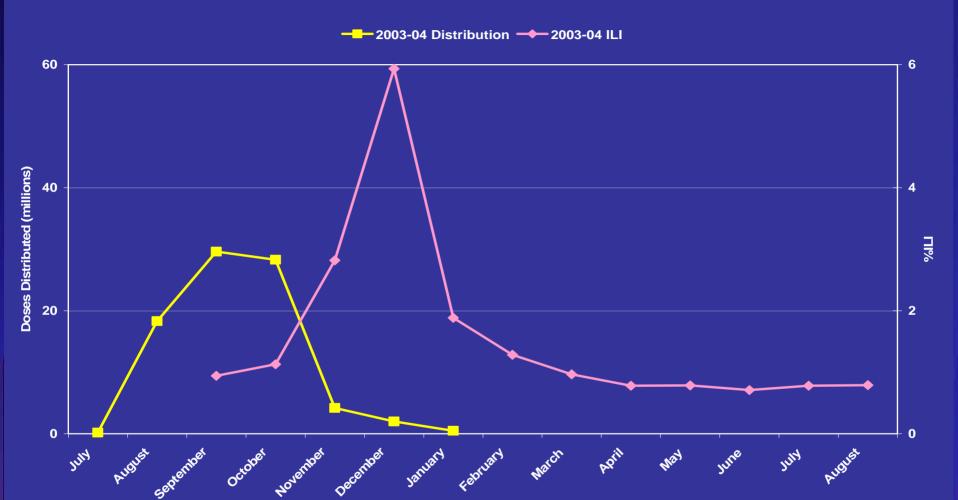
Vaccine Distribution and %ILI Timing 2007-08







Vaccine Distribution and %ILI Timing 2003-04







Current Routine Vaccine Supply Issues (VZV Bulk)

- VZV Bulk Vaccines (Varivax, ProQuad, Zostavax)
 - -Bulk Manufacturing Temporarily Suspended
 - -Remediation In Progress
 - Adequate Varivax & Zostavax
 - -Proquad Return projected early 2009
 - -No Interim Recommendations





Current Routine Vaccine Supply Issues (HepA)

- HepA Vaccine (Vaqta)
 - -Production Delays
 - -Project Pediatric Vaqta Return Q4 '08
 - -Project Adult Vaqta Return Q1 '09
 - Alternate Manufacturer Meeting National Needs
 - -No Interim Recommendations





Current Routine Vaccine Supply Issues (Hib Vaccine)

- Hib Vaccine (PedVaxHib & Comvax)
 - -Voluntary Lot Recalls
 - -Project Hib Return Q4 '08
 - -Interim Recommendations in Place
 - -Alternate Manufacturer Meeting Interim Recommendation Need





Hib Interim Recs December 19

- Defer routine Hib vaccine booster dose administered at age 12-15 months except for specific high-risk groups
- High-risk groups should continue to receive 12-15 month booster dose (e.g. asplenia, sickle cell disease, HIV infection, immunodeficency syndromes, malignancies)
- Providers who use PRP-OMP Hib (PedVaxHib & Comvax) to serve AI/AN children in AI/AN communities continue to use PRP-OMP including administration of the 12-15 month booster dose







Hib Vaccine Shortages:
A National Survey of
Attitudes and Practices
of Pediatricians and
Family Medicine
Physicians



Vaccine Policy Collaborative Initiative

- Allison Kempe, MD MPH
 - Principal Investigator
- Matthew F. Daley, MD
- Lori A. Crane, PhD, MPH

- Christine Babbel, MSPH
- Jennifer Barrow, MSPH
- Sandra Black, DVM, CSPH

CDC Collaborators

- Shannon Stokley, MPH
- Greg Wallace, MD



To determine, in a national survey of pediatricians (Peds) and family medicine (FM) physicians:

- Knowledge and attitudes about ACIP recommendations regarding Hib use during shortages
- Reported practice regarding Hib administration in different age groups
- Factors associated with adherence to recommendations

Study Setting and Population

- 90,
- Conducted in a sentinel physician network, developed as part of the Vaccine Policy Collaborative Initiative
- Network recruited from random sample of American Academy of Pediatric (AAP) members and American Academy of Family Physicians (AAFP) members
- Designed to be representative of AAP and AAFP:
 - Region of country (MW, NE, S, W)
 - Location (urban, suburban, rural)
 - Setting (private, community/hospital/clinic-based, managed care/HMO/Other) – AAP only

Results: Survey Response

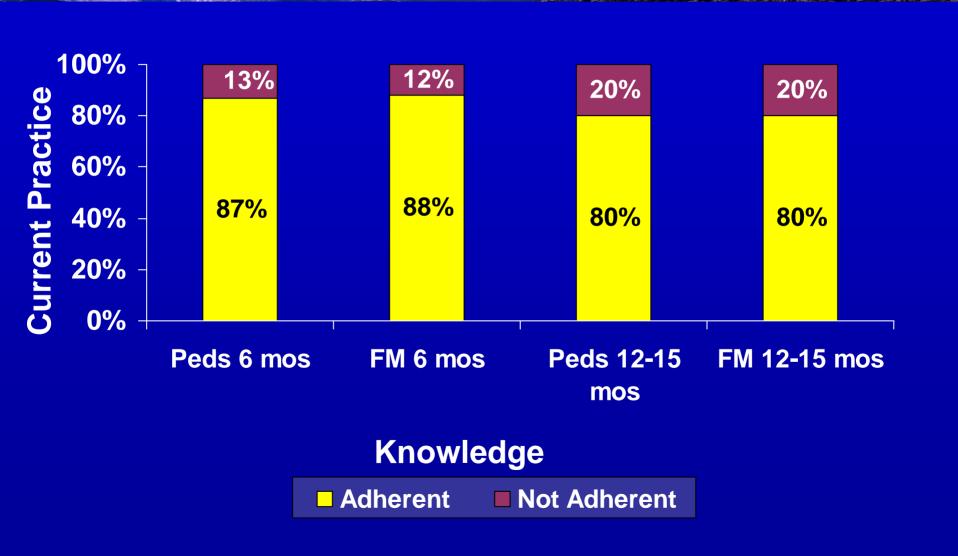


- Response rates:
 - 68% Peds (n=220)
 - 51% FM (n=153)
 - Total N=373

Knowledge of Interim Recommendations Among Physicians Who Were Aware

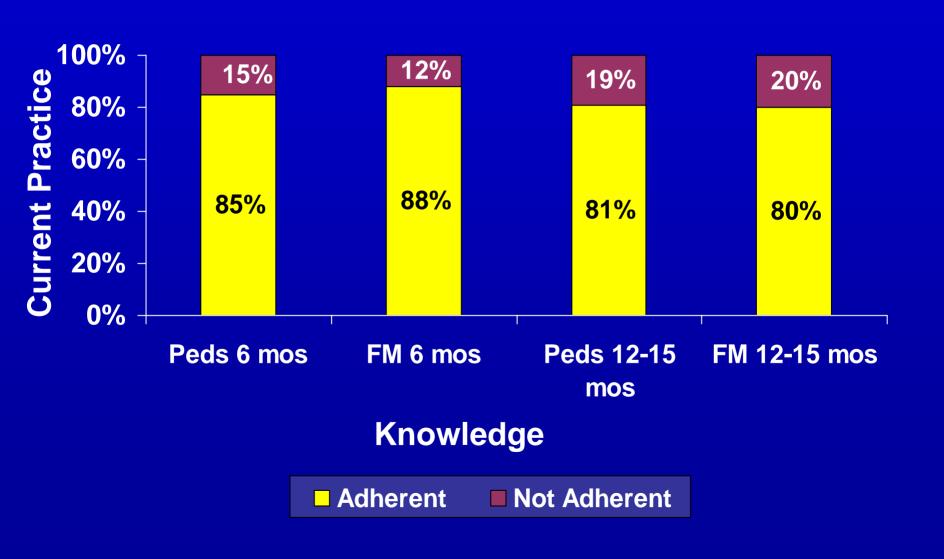
	Peds (n=215)	FM (n=109)	P-value
Should give to healthy 2, 4, 6 month olds	100%	89%	<0.0001
Should defer healthy 12-15 month olds	100%	99%	NS
Should give to 12-15 month olds with high-risk condition	98%	98%	NS

Reported Practice of Physicians with Knowledge of Recommendation (Private Insurance)



Reported Practice of Physicians with Knowledge of Recommendation (VFC)





Conclusions

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- All Peds and the majority (80%) of FM physicians were aware of interim recommendations during Hib shortages
- Of those who were aware, almost all were knowledgeable about specific recommendations
- Despite this, almost 1/4 of Peds and 1/3 of FM report they are <u>not</u> deferring in healthy 12-15 month olds
- 20% of each specialty are not deferring despite knowledge of the recommendations

Conclusions

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- Reported attitudes suggest
 - Misunderstanding that the recommendations are based on Hib supply at the level of the <u>practice</u>, especially among FM
 - Concerns about inadequate protection among children receiving 3 doses of ActHib and no booster, especially among Peds
- Reported experiences
 - Providers have had to make significant changes in the type and number of vaccines related to shortages, especially among Peds

Acknowledgments



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