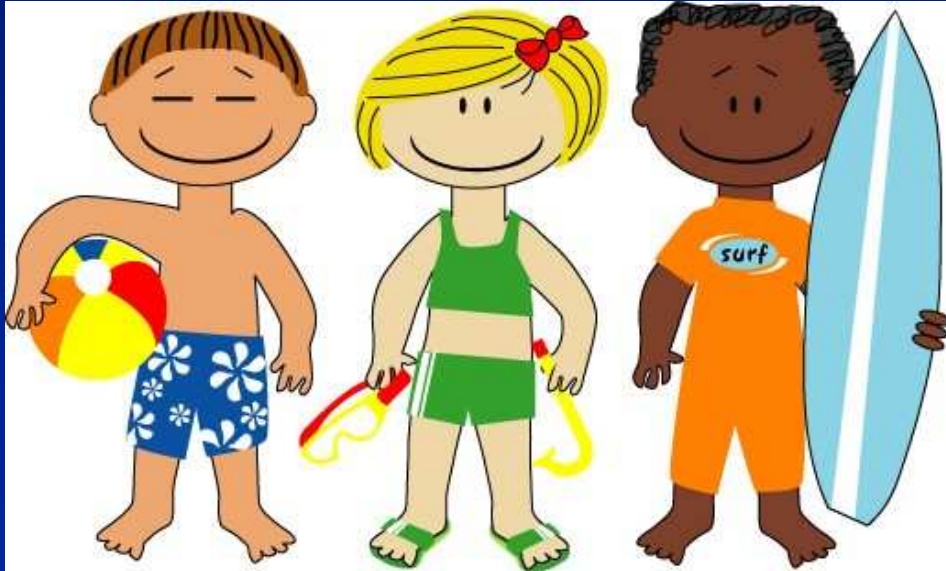


# Vaccines, 2008



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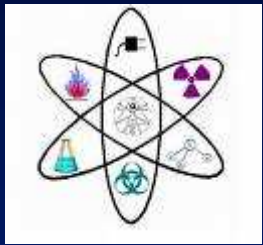
# Disclosures



I have no disclosures.

I will not be mentioning off  
label uses of vaccines.

# Immunization Safety



Starts during development

Animal studies before human studies

Safety and efficacy

Investigational New Drug Application

Phase 1, 2 and 3 clinical trials



# Post-licensure Safety

Vaccine adverse events reporting system



Vaccine Safety datalink



Clinical immunization safety assessment

Manufacturers

Universities, interested investigators

# Vaccine Schedule



Recommended Immunization Schedule for Preschool Children (12-23 months)

Vaccine	Age	12	15	18	24	30	36	42	48	54	60
MM2	12	✓									
MM2	15		✓								
MM2	18			✓							
MM2	24				✓						
MM2	30					✓					
MM2	36						✓				
MM2	42							✓			
MM2	48								✓		
MM2	54									✓	
MM2	60										✓

Why so soon?:

Early infection often more dangerous

Delaying doesn't decrease adverse events

Delaying leaves children unprotected



The image shows a small, partially legible document, likely a vaccine schedule or medical record. It contains a grid with columns for age and rows for various vaccines. The text is too small to read clearly, but it appears to be a standard medical form used for tracking vaccinations.

# Vaccine Schedule

Why so many?:

Prevention is better than trying to cure

More in this case is better

The immune system is designed to handle multiple antigens at once



# Why Mandate Vaccines?

Prior to mandates, rates were low and disparities abounded

Look at adult rates for influenza and pneumococcal vaccines

Why mandate education: children = our future

Why immunizations: Ounce of prevention will always be superior to pounds of cure

# Use of Resources

Millions spent to disprove any association of  
measles vaccines and autism

Millions spent to disprove damage from  
thimerosal

These have been costly distractions

Let's spend the effort studying autism

# Websites



[www.aap.org](http://www.aap.org)

[www.cdc.gov](http://www.cdc.gov)

[www.immunizationinfo.org](http://www.immunizationinfo.org)

[www.vaers.org](http://www.vaers.org)

