

Public Communication Activities Under FDA's Safety Authority

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Application of Pharmacovigilance to U.S. FDA Regulatory Decisions for Vaccines

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Objectives

- Discuss Vaccine safety communication principles
- Understand types of FDA product risk communications
- Describe legal requirements for FDA to post drug and vaccine safety risks



Principles of Vaccine Safety Communication

Goal of Transparency

- FDA Transparency Initiative: part of Open Govt.
- Transparency promotes accountability by providing information to the public about what the Government is doing



Balance Vaccine Risks and Benefits for Individuals, Populations:

- Individual: Risk of vaccine adverse event (AE) versus benefit of protection from disease
- Populations: Risk of Perception of harm (i.e., lower vaccine coverage) versus benefit of open communication

http://www.fda.gov/AboutFDA/Transparency/TransparencyInitiative/default.htm



Medical Product Safety Communications

MedWatch Safety Alerts

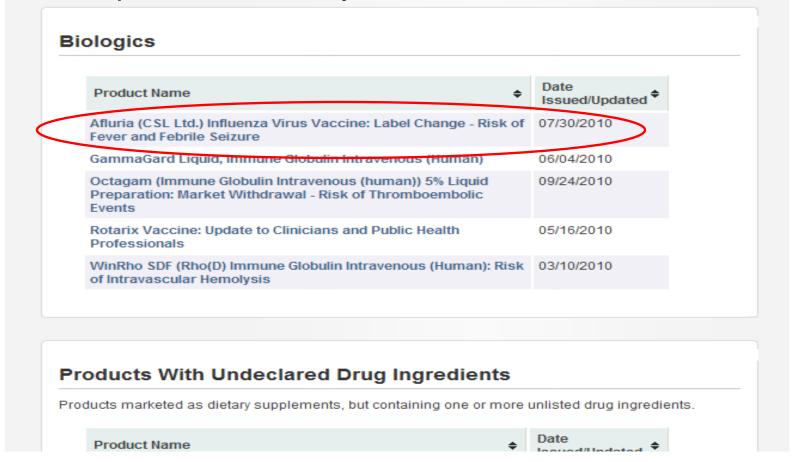
- Timely new safety information on drugs, devices, vaccines and other biologics
- Contain actionable information that may impact treatment and diagnostic choices
- Archived by year





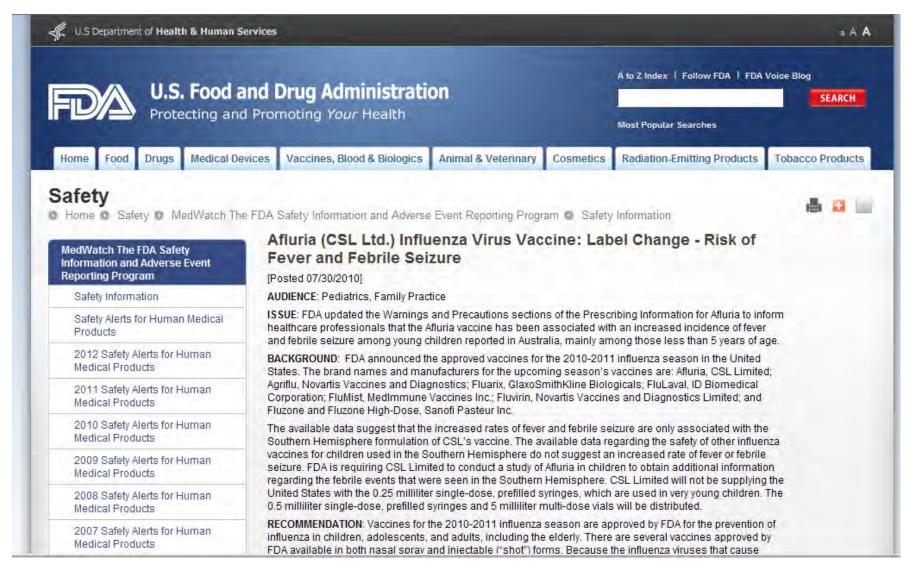
MedWatch Safety Alerts

Example: 2010 Safety Alerts



http://www.fda.gov/Safety/MedWatch/SafetyInformation/SafetyAlertsforHumanMedicalProducts/ucm196258.htm

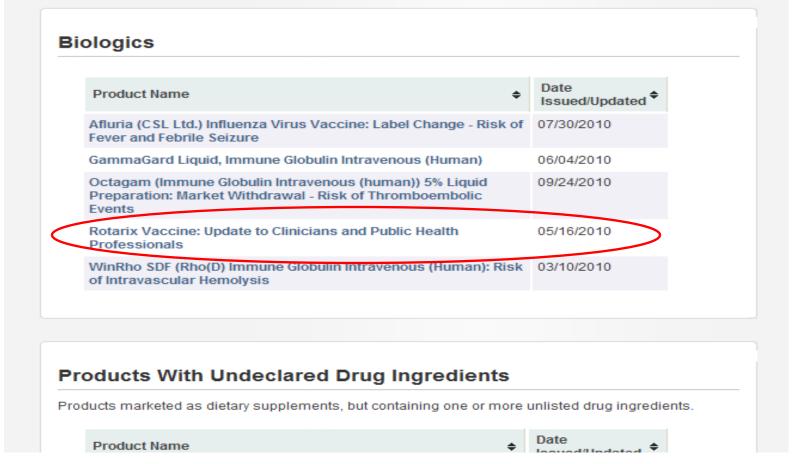






MedWatch Safety Alerts

Example: 2010 Safety Alerts



http://www.fda.gov/Safety/MedWatch/SafetyInformation/SafetyAlertsforHumanMedicalProducts/ucm196258.htm







Other Medical Product Safety Communications

- Drug Safety
 Communications Page
 - Label Changes
 - Epidemiologic Reviews of drug safety

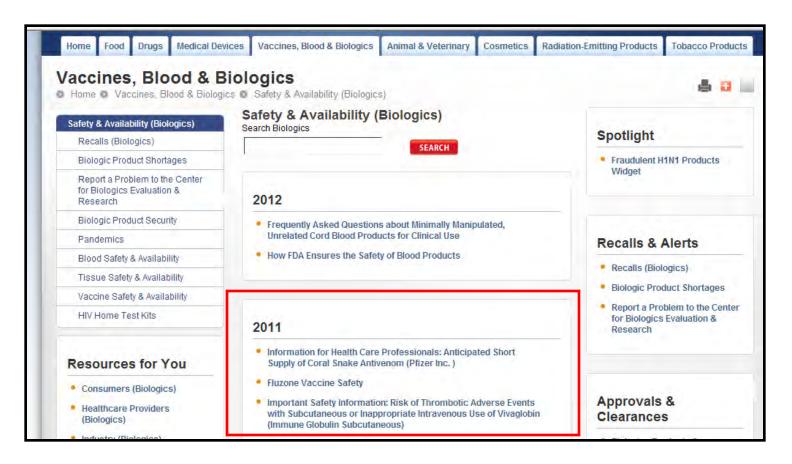


http://www.fda.gov/Drugs/DrugSafety/ucm199082.htm



Biologics Safety and Availability Information

 FDA/CBER posts notices about important adverse event reporting, recalls, shortages, and biological product deviations.





Biologics Safety and Availability Information

2011

- Information for Health Care Professionals: Anticipated Short Supply of Coral Snake Antivenom (Pfizer Inc.)
- Fluzone Vaccine Safety
- Important Safety Information: Risk of Thrombotic Adverse Events with Subcutaneous or Inappropriate Intravenous Use of Vivaglobin (Immune Globulin Subcutaneous)



Vaccine Safety Communication Example

Fluzone Vaccine Safety

FDA and CDC Update on Fluzone Influenza Vaccine and VAERS Reports of Febrile Seizures in Children

January 20, 2011

The Food and Drug Administration (FDA) and the Centers for Disease Control and Prevention (CDC) routinely monitor the safety of all U.S. vaccines by using several vaccine safety surveillance systems, including the Vaccine Adverse Event Reporting System (VAERS). VAERS collects and analyzes information from reported adverse events (health problems or possible side effects) that occur after vaccination.

FDA and CDC have recently detected an increase in the number of reports to VAERS of febrile seizures following vaccination with Fluzone (trivalent inactivated influenza vaccine or TIV, manufactured by Sanofi Pasteur, Inc.). Fluzone is the only influenza vaccine recommended for use for the 2010-2011 flu season in infants and children 6-23 months of age. These reported febrile seizures have primarily been seen in children younger than 2 years of age. Data from VAERS are preliminary and serve as a sign or indication that further investigation is warranted. Further investigations are under way to assess whether there could be an association between influenza vaccination and febrile seizures, or if other factors could be involved. FDA and CDC have seen no increase in VAERS reports of febrile seizures in people older than 2 years of age following vaccination with TIV, and no increase after live attenuated influenza vaccine (FluMist, the nasal spray vaccine). In the cases reported, all children recovered and no lasting effects have been seen. Recommendations for the use of flu vaccine in children have **not** changed.

FDA and CDC will continue to conduct studies and provide additional information to the public and health care providers as it becomes available.



Safety Communications Required by FDA Amendment Act (FDAAA)

- Potential Signals of a Serious Risk from the Adverse Event Reporting System (AERS) (aka Section 921)
- Comprehensive 18-month safety review (aka Section 915)
- Post-approval Pediatric Safety Reviews for Pediatric Advisory Committee (PAC)



Potential Signals of a Serious Risk from the Adverse Event Reporting System (AERS)

- FDAAA requires FDA to post <u>potential</u> signals of serious risks identified from AERS data each Quarter
- Early communication; before evaluation
 - Does not mean that FDA has determined that the drug has the risk
 - Does not mean that FDA has determined that there is a causal relationship



Potential Signals of a Serious Risk from the Adverse Event Reporting System (AERS)

- Includes signals identified
 - From AERS only, or
 - From other sources and AERS data contributed
- Limited to AERS data (i.e., signals for drugs and therapeutic biologics), but general principles apply to FDA communications about vaccines



Sample 921 posting

Potential Signals of Serious Risks/New Safety Information Identified by the Adverse Event Reporting System (AERS) January - March 2010

Product Name: Active Ingredient (Trade) <i>or</i> Product Class	Potential Signal of a Serious Risk / New Safety Information	Additional Information (as of July 31, 2010)	
Azacitidine (Vidaza)	Acute febrile neutrophilic dermatosis (Sweet's syndrome)	FDA is continuing to evaluate this issue to determine the need for any regulatory action.	
Azithromycin (Zithromax)	Liver failure	FDA is continuing to evaluate this issue to determine the need for any regulatory action.	
Azithromycin extended release 2 g (Zmax)	Pyloric stenosis	FDA is continuing to evaluate this issue to determine the need for any regulatory action.	
C1 esterase inhibitors (Cinryze, Berinert)	Thromboembolic events in patients with certain thrombogenic risk factors	FDA is evaluating this issue to determine whether current labeling is adequate.	



Postmarketing Drug and Biologics Safety Evaluations (18-month Reviews)

- FDAAA requires FDA to conduct a comprehensive safety evaluation of all new products after 18 months since approval and use in 10,000 patients
- FDAAA requires FDA to post results of the reviews on the web



U.S. Food and Drug Administration

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Drugs

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Guidance, Compliance & **Regulatory Information**

Surveillance

Postmarketing Surveillance Programs

Regulations and Policies and Procedures for Postmarketing Surveillance Programs

Staff Manual Guide: Chapter 53; Postmarketing Surveillance and Epidemiology: Human Drugs

Postmarketing Drug Safety Evaluations

> Adverse Events Reporting System (AERS)

Drug Marketing, Advertising, and Communications

Resources for You

Ouestions and Answers on FDA's Postmarketing Safety Summaries of Recently Approved Drugs and Biologics

Postmarketing Drug Safety Evaluations

- What is FDA Posting?
- Why is FDA posting this summary information?
- What information is provided on this web site?
- What information does FDA consider for these postmarketing safety evaluations?
- How is the information analyzed?
- Postmarketing Drug Safety Evaluation Summaries

What is FDA posting?

This web site provides summary information about ongoing and completed postmarketing safety evaluations of adverse drug experience reports made to FDA for New Drug Applications (NDAs) and Biologic License Applications (BLAs) approved since September 27, 2007. The evaluations are done to determine if there are any new serious adverse events not previously identified during product development, known side effects reported in unusual number, or potential new safety concerns now that the products are being used in the general population. In accordance with Title IX, section 915 of the Food and Drug Administration Amendments Act of 2007 (FDAAA) which created a new section 505(r) of the Federal Food, Drug, and Cosmetic Act (FDCA) (21 U.S.C. 355(r)), these postmarketing evaluations are performed 18 months after approval of the drug or after its use by 10,000 individuals, whichever is later.

Why is FDA posting this summary information?

FDA is posting this information in accordance with section 505(r) of the FDCA. This section of the statute directs FDA to improve the transparency of information about drugs and to provide patients and health care providers better access to information about drugs by developing a web site with specified types of drug safety information.

In response to the statutory requirement, FDA developed the Postmarket Drug Safety Information for Patients and Providers web site, which has links to a wide variety of drug safety information, including this web page.



Sources of Safety information for 18-month Safety Reviews

FDA assesses several data sources including:

- The product's pre-approval safety profile
- The product's current FDA-approved label
- Reports made to FDA's Adverse Event Reporting System (AERS)
- Reports made to the Vaccine Adverse Event Reporting System (VAERS)
- Manufacturer-submitted periodic safety reports
- Medical literature
- Drug utilization databases
- Data from post-approval clinical trials and other studies, when applicable



Sample public posting

Postmarketing Drug Safety Evaluation Summaries

Postmarketing Drug Safety Evaluations completed through the fourth quarter of 2009:

Product Name: Trade (Active Ingredient) NDA/BLA Number Approval Date	Major Indication(s)	Summary of Evaluation Findings	Actions Taken and Ongoing Surveillance Activities
Afluria (Influenza Virus	For active immunization of	No potential safety problems were identified.	No labeling changes required at this time.
Vaccine)	persons ages 6 months and older		
BLA 125254	against influenza disease caused by		
September 28, 2007	influenza virus subtypes A and type		
	B present in the vaccine.		



