

# Annual Adverse Drug Experience Report: 1996

October 30, 1997

Surveillance and Data Processing Branch  
Division of Pharmacovigilance and Epidemiology  
Office of Epidemiology and Biostatistics  
Center for Drug Evaluation and Research  
Food and Drug Administration

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## INTRODUCTION

This report presents a descriptive overview of the 159,504 evaluable<sup>1</sup>, postmarket adverse drug experience (ADE) cases received by the US Food and Drug Administration (FDA) during calendar year 1996<sup>2</sup>. A case consists of the original report of an ADE on a patient plus any follow-up information.

At this time, October, 1997, the SRS has accumulated about 1.4 million cases. The primary purpose for maintaining the database is to serve as an early warning or signaling system for ADEs not detected during premarket testing. The ADE system depends upon

detection of an adverse clinical event by a health professional or consumer, attribution of the clinical event to prior administration of a particular drug ("suspect" drug), and reporting of the ADE to the manufacturer of the suspected drug or directly to FDA. Data from these ADE cases are coded and entered into the computerized ADE database. Copies of the ADE cases are stored on microfilm or an imaging system. Up to five drugs per case may be entered into the computerized ADE database; the five can be a combination of "suspect" and "concomitant" drugs. Up to four adverse events per case and their associated body systems can be coded into the database, using FDA's "Coding Symbols for Thesaurus of Adverse Reaction Terms" (COSTART).

Reporting of postmarket ADEs by health professionals and consumers is voluntary. They may send their reports directly to FDA ("Direct" reports), to the drug manufacturer ("Manufacturer" reports), or both. Drug manufacturers are required by law and regulation to submit to FDA postmarket ADE reports received by any means from health professional or consumers.

It is important to remember certain caveats when using data from FDA's postmarket ADE database:

1. For any given ADE case, there is no certainty that the suspected drug caused the ADE. This is because physicians and consumers are encouraged to report all suspected ADEs, not just those that are already known to be caused by the drug. The adverse event may have been related to an underlying disease for which the drug was given, to other concomitant drugs, or may have occurred by chance at the same time the suspect drug was administered.
2. Accumulated ADE cases may not be used to calculate incidences or estimates of drug risk. Numbers from these data should be carefully interpreted as reporting rates and not occurrence or incidence rates.

Over the next pages, various kinds of data and information are presented on the postmarket ADE cases computerized into the FDA ADE database during calendar year 1996. Due to rounding, the percentages in tables and graphs may not total to 100%. Figures 1 and 2 present copies of the postmarket ADE forms used by manufacturers and health professionals or consumers, respectively.

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<sup>1</sup> Excludes "React Uneval" unevaluable reactions cases.

<sup>2</sup> The 1996 postmarket ADE Computerized data file used for this report was created October 1997.

Standard MedWatch Form, front page



For use by user-facilities, distributors and manufacturers for MANDATORY reporting

Page \_\_\_\_ of \_\_\_\_


PLEASE TYPE OR USE BLACK INK

<b>A. Patient information</b>			
1. Patient identifier  In confidence	2. Age at time of event: or Date of birth:	3. Sex <input type="checkbox"/> female <input type="checkbox"/> male	4. Weight ____ lbs or ____ kgs
<b>B. Adverse event or product problem</b>			
1. <input type="checkbox"/> Adverse event and/or <input type="checkbox"/> Product problem (e.g., defects/malfunctions)			
2. Outcomes attributed to adverse event (check all that apply)			
<input type="checkbox"/> death _____		<input type="checkbox"/> disability	
<input type="checkbox"/> life-threatening		<input type="checkbox"/> congenital anomaly	
<input type="checkbox"/> hospitalization – initial or prolonged		<input type="checkbox"/> required intervention to prevent permanent impairment/damage	
		<input type="checkbox"/> other: _____	
3. Date of event	4. Date of this report		
5. Describe event or problem			
6. Relevant tests/laboratory data, including dates			
7. Other relevant history, including preexisting medical conditions (e.g., allergies, race, pregnancy, smoking and alcohol use, hepatic/renal dysfunction, etc.)			

<b>C. Suspect medication(s)</b>			
1. Name (give labeled strength & ml/labeler, if known)			
#1 _____			
#2 _____			
2. Dose, frequency & route used		3. Therapy dates (if unknown, give duration)	
#1 _____		#1 _____	
#2 _____		#2 _____	
4. Diagnosis for use (indication)		5. Event abated after use stopped or dose reduced	
#1 _____		#1 <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> doesn't apply	
#2 _____		#2 <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> doesn't apply	
6. Lot # (if known)	7. Exp. date (if known)		
#1 _____	#1 _____		
#2 _____	#2 _____		
8. Event reappeared after reintroduction			
#1 <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> doesn't apply			
#2 <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> doesn't apply			
9. NDC # – for product problems only (if known)			
- -			
10. Concomitant medical products and therapy dates (exclude treatment of event)			
<b>D. Suspect medical device</b>			
1. Brand name			
2. Type of device			
3. Manufacturer name & address			4. Operator of device
			<input type="checkbox"/> health professional
			<input type="checkbox"/> lay user/patient
			<input type="checkbox"/> other: _____
5. Expiration date			6. If implanted, give date
model # _____			_____
catalog # _____			7. If explanted, give date
serial # _____			_____
lot # _____			8. If explanted, give date
other # _____			_____
9. Device available for evaluation? (Do not send to FDA)			
<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> returned to manufacturer on _____			
10. Concomitant medical products and therapy dates (exclude treatment of event)			
<b>E. Initial reporter</b>			
1. Name, address & phone #			phone #
2. Health professional?		3. Occupation	
<input type="checkbox"/> yes <input type="checkbox"/> no			
4. Initial reporter also sent report to FDA			
<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unk			



Submission of a report does not constitute an admission that medical personnel, user facility, distributor, manufacturer or product caused or contributed to the event.

Standard MedWatch Form, back page

# Medication and Device Experience Report

(continued)

Refer to guidelines for specific instructions

Submission of a report does not constitute an admission that medical personnel, user facility, distributor, manufacturer or product caused or contributed to the event.

Page \_\_\_\_\_ of \_\_\_\_\_

F. For use by user facility/distributor—devices only		H. Device manufacturers only	
1. Check one <input type="checkbox"/> user facility <input type="checkbox"/> distributor	2. UFDist report number	1. Type of reportable event <input type="checkbox"/> death <input type="checkbox"/> serious injury <input type="checkbox"/> malfunction (see guidelines) <input type="checkbox"/> other: _____	2. If follow-up, what type? <input type="checkbox"/> correction <input type="checkbox"/> additional information <input type="checkbox"/> response to FDA request <input type="checkbox"/> device evaluation
3. User facility or distributor name/address		3. Device evaluated by mfr? <input type="checkbox"/> not returned to mfr. <input type="checkbox"/> yes <input type="checkbox"/> evaluation summary attached <input type="checkbox"/> no (attach page to explain why not) or provide code: _____	4. Device manufacture date
4. Contact person	5. Phone Number	5. Labeled for single use? <input type="checkbox"/> yes <input type="checkbox"/> no	
6. Date user facility or distributor became aware of event	7. Type of report <input type="checkbox"/> initial <input type="checkbox"/> follow-up # _____	6. Evaluation codes (refer to coding manual)	
9. Approximate age of device	10. Event problem codes (refer to coding manual)		
patient code	_____ - _____ - _____	method	
device code	_____ - _____ - _____	results	
11. Report sent to FDA? <input type="checkbox"/> yes _____ <input type="checkbox"/> no _____		conclusions	
13. Report sent to manufacturer? <input type="checkbox"/> yes _____ <input type="checkbox"/> no _____		7. If remedial action initiated, check type <input type="checkbox"/> recall <input type="checkbox"/> notification <input type="checkbox"/> repair <input type="checkbox"/> inspection <input type="checkbox"/> replace <input type="checkbox"/> patient monitoring <input type="checkbox"/> relabeling <input type="checkbox"/> modification/adjustment <input type="checkbox"/> other: _____	
14. Manufacturer name/address		8. Usage of device <input type="checkbox"/> initial use of device <input type="checkbox"/> reuse <input type="checkbox"/> unknown	
11. Location where event occurred <input type="checkbox"/> hospital <input type="checkbox"/> outpatient diagnostic facility <input type="checkbox"/> home <input type="checkbox"/> ambulatory surgical facility <input type="checkbox"/> nursing home <input type="checkbox"/> outpatient treatment facility <input type="checkbox"/> other: _____		9. If action reported to FDA under 21 USC 360a(f), list correction/removal reporting number:	
10. <input type="checkbox"/> Additional manufacturer narrative and/or 11. <input type="checkbox"/> Corrected data			
G. All manufacturers			
1. Contact office – name/address (& mailing site for devices)	2. Phone number		
4. Date received by manufacturer		3. Report source (check all that apply) <input type="checkbox"/> foreign <input type="checkbox"/> study <input type="checkbox"/> literature <input type="checkbox"/> consumer <input type="checkbox"/> health professional <input type="checkbox"/> user facility <input type="checkbox"/> company representative <input type="checkbox"/> distributor <input type="checkbox"/> other: _____	
6. If IND, protocol #	5. (A)NDA # _____ IND # _____ PLA # _____	7. Type of report (check all that apply) <input type="checkbox"/> 5-day <input type="checkbox"/> 15-day <input type="checkbox"/> 10-day <input type="checkbox"/> periodic <input type="checkbox"/> Initial <input type="checkbox"/> follow-up # _____	
7. Type of report (check all that apply) <input type="checkbox"/> 5-day <input type="checkbox"/> 15-day <input type="checkbox"/> 10-day <input type="checkbox"/> periodic <input type="checkbox"/> Initial <input type="checkbox"/> follow-up # _____	8. Adverse event term(s)		
9. Mfr. report number	pre-1938 <input type="checkbox"/> yes OTC product <input type="checkbox"/> yes		

Please do NOT return this form to either of these addresses.

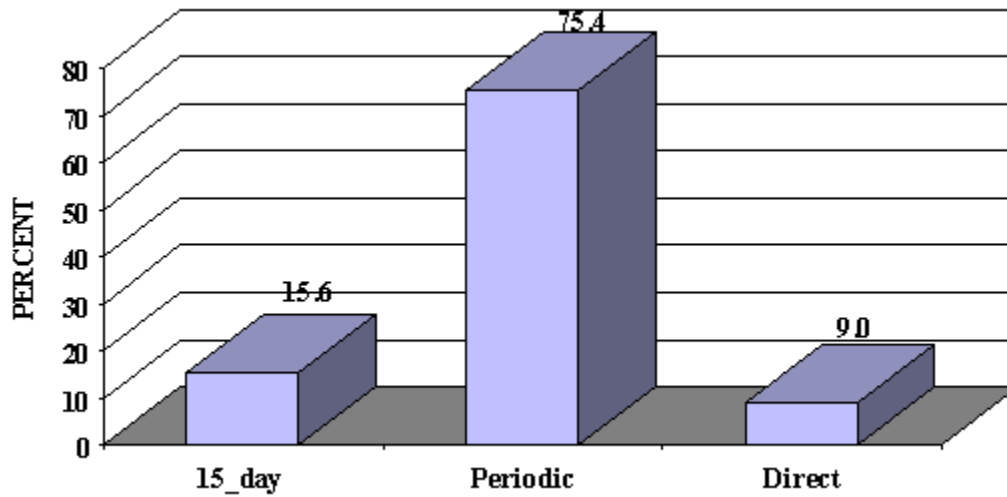
## TYPES OF REPORTS

There are three types of reports in the FDA computerized postmarket ADE database:

1. Manufacturer-reported cases concerning ADEs not in present official FDA labeling with serious outcomes (i.e., death, life-threatening, hospitalization, permanent disability, congenital anomaly, cancer, or overdose). These cases are known in regulatory language as "**15-day Alert Reports**" because the manufacturer has 15 working days to submit this type of report to FDA.
2. All other manufacturer-reported cases. These cases are known in regulatory languages as "**Periodic Reports**" because the manufacturer is required to submit them to FDA on a cyclical basis.
3. Cases sent directly to FDA by health professionals or consumers ("**Direct Reports**").

As shown in Figure 3, reports submitted to FDA via manufacturers accounted for 91.0%(145,021) of the 159,504 postmarket ADE cases. Only 9.0%(14,483) were submitted directly to FDA. 15-day report were 15.6%(24,815) of the total.

**Figure 3. Postmarket ADE Reports by Type of Report: 1996**

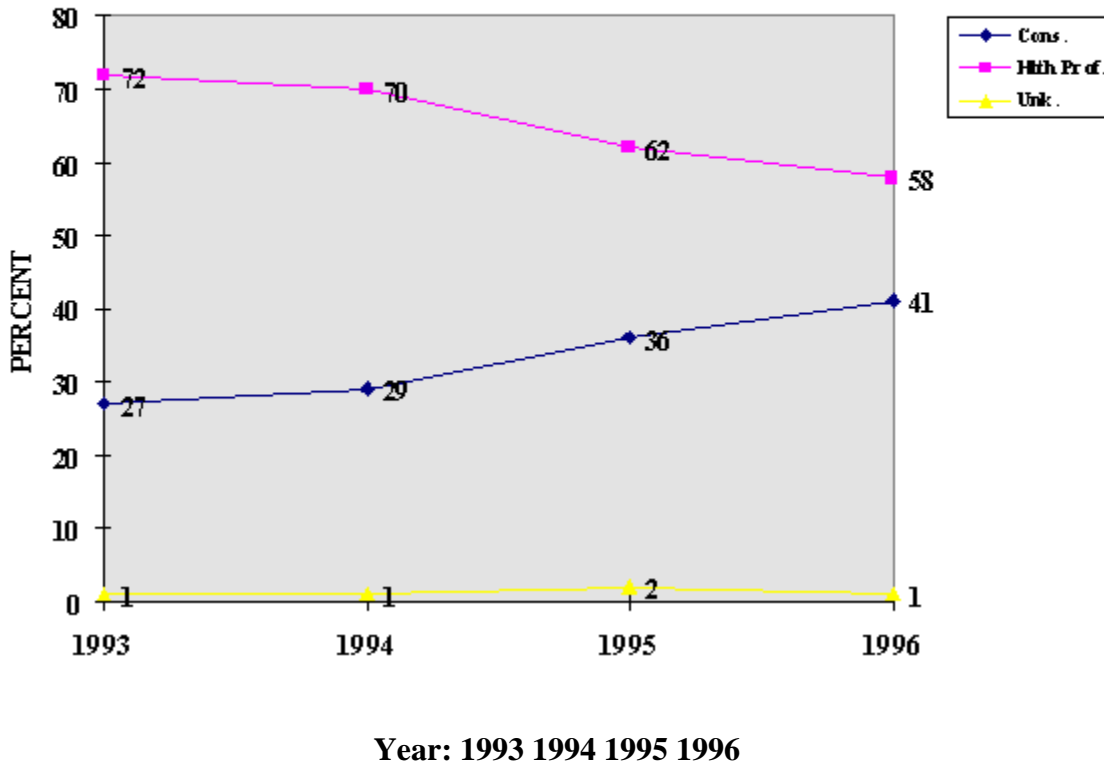


**N = 159,504**

## REPORTING BY HEALTH PROFESSIONALS AND CONSUMERS

As shown in Figure 4, in 1996, there were 157,067 reporters for the 159,504 postmarket ADE cases, 64,752 (41.2%) reporters were consumers, 90,394 (57.6%) reporters were health professionals, and 1,921 (1.2%) were unknown sources. Figure 4 also shows that, over a four-year trend (1993-96), reports from consumers have increased both in absolute numbers and proportionally, whereas those from health professionals have gone up in absolute numbers.

**Figure 4. ADE Reports By Health Professionals and Consumers, 1993-1996**



N (000s)		N (000s)		N (000s)		N (000s)	
C	32	C	35	C	48	C	64
H	86	H	84	H	81	H	90
U	1	U	1	U	2	U	2

## GEOGRAPHIC LOCATION OF INITIAL REPORTER

As shown in Table 1, the initial reporter for 81.2% (129,521) of the 159,504 postmarket ADE cases was located within the US census regions; 9.6% (15,260) of cases were missing location.

There were 9.2% (14,723) of the postmarket ADE cases where the initial report source was foreign. There were four countries which each accounted for  $\geq 9\%$  of the foreign cases: France (31.2%), Japan (14.2%), United Kingdom (12.8%), Germany (9.2%).

**Table 1. Postmarket ADE Reports by Geographic Location of Initial Reporter: 1996**

	<b>N</b>	<b>%</b>
<i>All Locations</i>	<i>159,504</i>	<i>100</i>
<i>US Census Region:</i>	<i>129,521</i>	<i>81.2</i>
<sup>a</sup> <b>New England</b>	25,149	19.4
<b>East South Central</b>	23,355	18.0
<b>Pacific</b>	22,289	17.2
<b>Middle West</b>	22,207	17.2
<b>West South Central</b>	16,804	13.0
<b>Middle Atlantic</b>	16,763	12.9
<b>Others</b>	2,954	2.3
<i>Foreign:</i>	<i>14,723</i>	<i>9.2</i>
<sup>b</sup> <b>France</b>	4,593	31.2
<b>Japan</b>	2,094	14.2

<b>United Kingdom</b>	1,888	12.8
<b>Germany</b>	1,355	9.2
<b>Others</b>	4,793	32.6
<b><i>Unknown</i></b>	<b><i>15,260</i></b>	<b><i>9.6</i></b>

<sup>a</sup> US Census Regions are percentaged to 129,521

<sup>b</sup> Foreign countries are percentaged to 14,723

### SEX AND AGE OF PATIENTS

As shown in Table 2, the ratio of female-to-male postmarket ADE cases was 1.7:1. For both females and males, the  $\geq 60$  year age group accounted for the greatest number of known sex-age cases.

**Table 2. Postmarket ADE Reports by Reports by Sex & Age of Patient: 1996**

	<b>N</b>	<b>%</b>
<b><i>ALL SEXES &amp; AGES</i></b>	<b><i>159,504</i></b>	<b><i>100</i></b>
<b><i>All Females:</i></b>	<b><i>91,200</i></b>	<b><i>57.2</i></b>
<b>&lt;= 19 yrs</b>	5,971	3.7
<b>20 - 39 yrs</b>	19,855	12.4
<b>40 - 59 yrs</b>	20,980	13.2

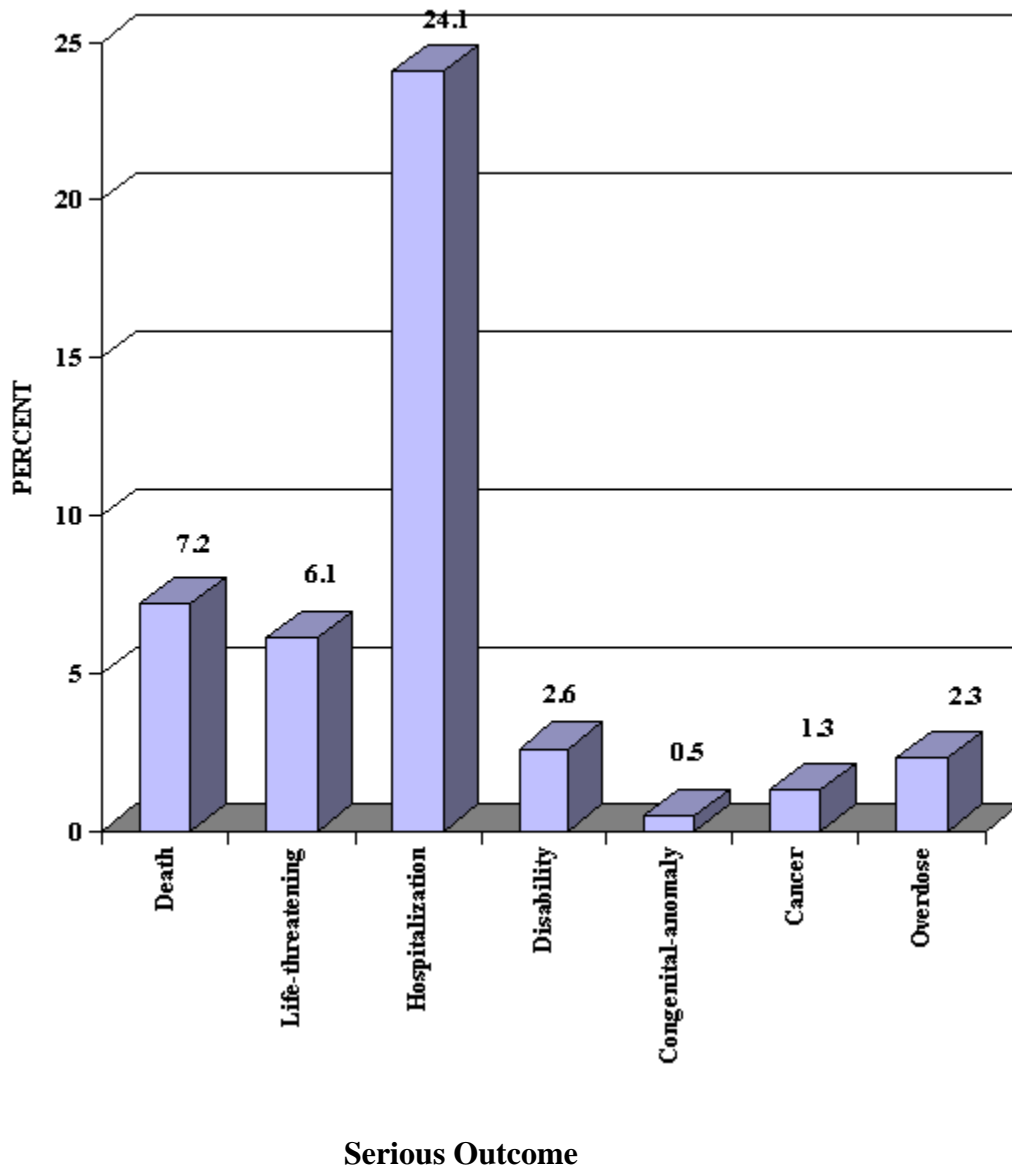


<b>&gt;= 60 yrs</b>	24,111	15.1
<b>Unknown age</b>	20,283	12.7
<b><i>All Males:</i></b>	<b><i>53,761</i></b>	<b><i>33.7</i></b>
<b>&lt;= 19 yrs</b>	5,069	3.2
<b>20 - 39 yrs</b>	8,510	5.3
<b>40 - 59 yrs</b>	13,082	8.2
<b>&gt;= 60 yrs</b>	17,418	10.9
<b>Unknown age</b>	9,682	6.1
<b><i>Unknown Sex:</i></b>	<b><i>14,543</i></b>	<b><i>9.1</i></b>
<b>&lt;= 19 yrs</b>	439	0.3
<b>20 - 39 yrs</b>	163	0.1
<b>40 - 59 yrs</b>	242	0.2
<b>&gt;= 60 yrs</b>	312	0.2
<b>Unknown age</b>	13,387	8.4

### SERIOUS OUTCOMES

As shown in Figure 5, hospitalization was the most recorded serious outcome; congenital anomaly, the least. ( One case could have more than one outcome).

**Figure 5. Postmarket ADE Reports by Type of Serious Report: 1996**



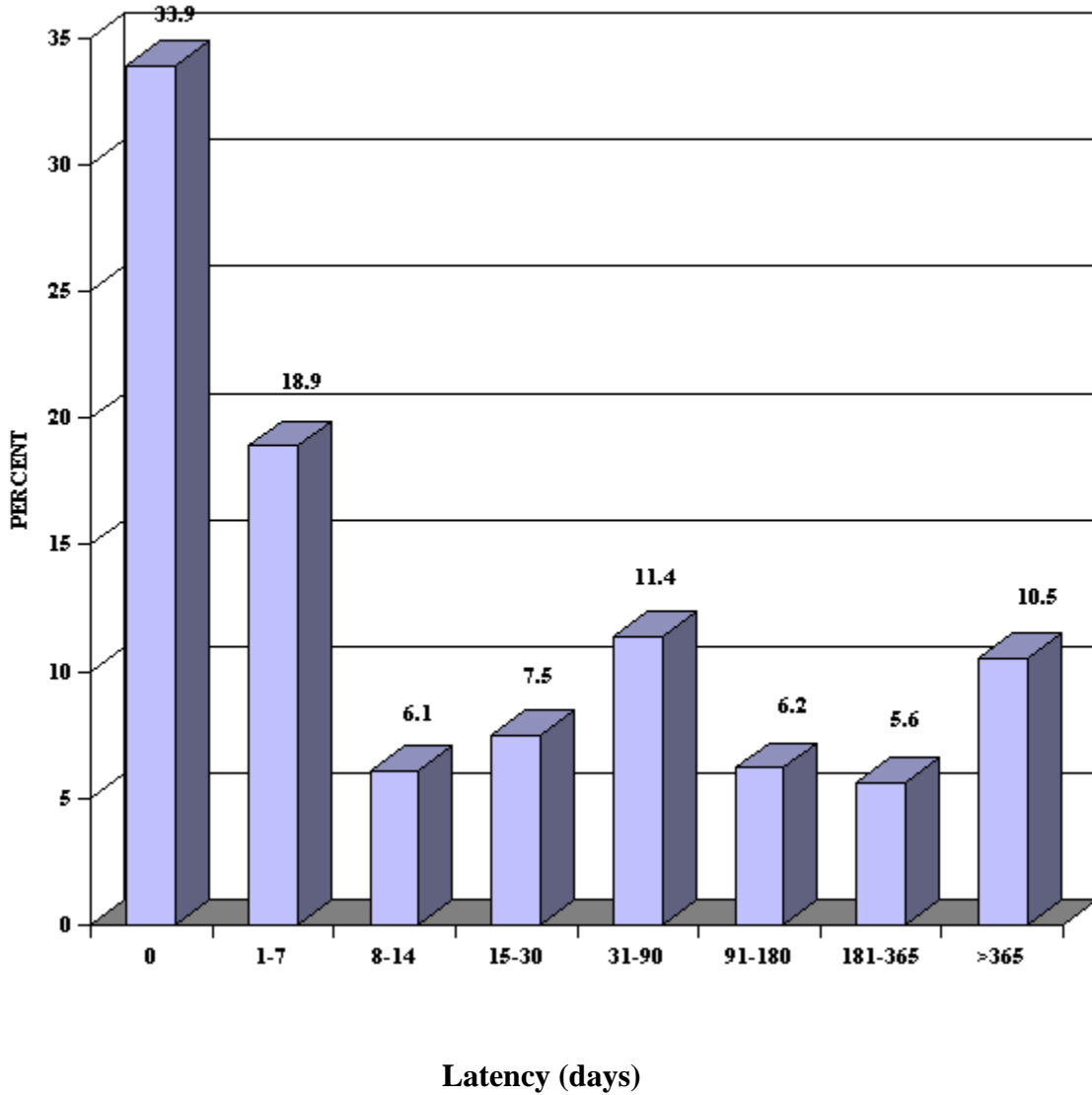
**N = 105,599**

**LATENCY BETWEEN SUSPECT DRUG ADMINISTRATION AND ADE ONSET**

As shown in Figure 6, of the 159,504 postmarket ADE cases, 53.6% (85,517) had both a drug start date and an adverse experience onset date for the first-listed suspect drug and first-listed adverse experience, respectively, and the drug date was computerized as

occurring before the adverse experience date. About half of these cases noted that the adverse event occurred within one week of drug initiation.

**Figure 6. Postmarket ADE Reports by Latency Period: 1996**



**N = 85,517**

### **CLASSES OF SUSPECT DRUGS**

Table 3 presents the top-10 ranked drug classes associated with the 174,905 suspect drugs computerized from the 159,504 postmarket ADE cases. The top-ranked drug class, central nervous system agents, accounted for approximately little less than one-quarter of

the drug class mentions<sup>3</sup>. Together with the second and third ranked drug classes, anti-infectives, and hormones and synthetic substitutes, these top three ranked drug classes comprised about half of the total drug class mentions.

**Table 3. Postmarket ADE Reports by Top-10 Ranked Classes of Suspect Drugs: 1996**

	<b>N</b>	<b>%</b>
<i>All Suspect Drug Mentions</i>	<b>174,905</b>	<b>100</b>
<b>Central nervous system agents</b>	39,541	22.6
<b>Anti-infective agents</b>	21,388	12.2
<b>Hormones &amp; synthetic substitutes</b>	20,956	12.0
<b>Cardiovascular drugs</b>	18,076	10.3
<b>Skin &amp; mucous membrane agents</b>	13,927	7.9
<b>Antineoplastic agents</b>	12,552	7.2
<b>Gastrointestinal drugs</b>	10,580	6.0
<b>Unclassified therapeutic agents</b>	10,397	5.9
<b>Autonomic drugs</b>	8,189	4.7
<b>Blood formation and coagulation</b>	3,707	2.1

<sup>3</sup> The drug classification used was the American Hospital Formulary Service Pharmacologic - Therapeutic Classification (American Society of Health-System Pharmacists, Bethesda, Maryland, 1997)

**SUSPECT DRUGS BY ENTRY NAME AND NEW MOLECULAR ENTITY STATUS**

Table 4 shows the top-10 ranked suspect drugs as entered on the 159,504 postmarket ADE reporting forms.

New Molecular Entities (NMEs) are defined as new drugs approved within the past three years. For this 1996 report, NMEs are new drugs approved during 1993-96. Of the 174,905 suspect drugs computerized from the 159,504 postmarket ADE cases, 30.2% (29,584) involved NMEs.

**Table 4. Postmarket ADE Reports by Top-10 Ranked Suspect Drugs: 1996**

	N	%
<i>All Suspect Drug Mentions</i>	<b>174,905</b>	<b>100</b>
<b>Fosamax<sup>™</sup></b>	6,197	3.5
<b>Norplant<sup>™</sup></b>	5,957	3.4
<b>Prozac<sup>™</sup></b>	3,506	2.0
<b>Pepcid AC<sup>™</sup></b>	3,104	1.8
<b>Estraderm<sup>™</sup></b>	2,890	1.7
<b>Femstat<sup>™</sup></b>	2,648	1.5
<b>Rogaine<sup>™</sup></b>	2,435	1.4
<b>Paragard<sup>™</sup> T380A</b>	2,172	1.2
<b>Nix<sup>™</sup></b>	2,077	1.2
<b>Zoloft<sup>™</sup></b>	2,070	1.2

<sup>™</sup> - Trademark

## DRUG CLASSES STRATIFIED BY HEALTH PROFESSIONALS OR CONSUMERS, TYPE OF REPORT, AND YEAR

Table 5 shows the top-five ranked drug classes<sup>3</sup> associated with suspect drugs, stratified by whether the initial reporter was a health professional or consumer, the type of report, and year the cases was computerized into the FDA postmarket ADE database.

**1996 Data.** In 1996, there were 155,529 drug class mentions where type of initial reporter and type of report were known. For consumers, only two of the top-five ranked drug classes were common to all report types: central nervous system agents and hormones and synthetic substitutes. For health professionals, there were four drug classes of the top-five ranked drug classes common to all report types: central nervous system agents, antineoplastic agents, anti-infective agents, and cardiovascular drugs. The only drug class in the top-five ranked drug classes common to both consumers and health professionals across report types was central nervous system agents.

**Table 5. Top-5 Ranked Drug Classes Per Type of Reporter & Report: 1996**

Reporter Type	Report Type	Drug Class	N	%
<i>ALL</i>	<i>ALL</i>	<i>ALL</i>	<i>155,529</i>	<i>100</i>
<i>Consumer</i>	<i>All</i>	<i>All</i>	<i>64,858</i>	<i>41.7</i>
	<i>Mfr 15-day</i>	<i>All</i>	<i>2,820</i>	<i>1.8</i>
		Central nervous system agents	689	0.4
		Hormones and synthetic substitutes	482	0.3
		Anti-infective agents	309	0.2
		Cardiovascular drugs	271	0.2
		Autonomic drugs	233	0.1

	<i>Mfr Periodic</i>	<i>All</i>	<b>61,225</b>	<b>39.4</b>
		Hormones and synthetic substitutes	11,709	7.5
		Skin and mucous membrane agents	10,612	6.8
		Central nervous system agents	10,073	6.5
		Gastrointestinal drugs	7,080	4.6
		Cardiovascular drugs	5,504	3.5
	<i>Direct</i>	<i>All</i>	<b>813</b>	<b>0.5</b>
		Central nervous system agents	222	0.1
		Skin and mucous membrane agents	132	0.1
		Autonomic drugs	88	0.1
		Anti-infective agents	87	0.1
		Cardiovascular drugs	43	0.0
<b>Health Professional</b>	<i>All</i>	<i>All</i>	<b>90,671</b>	<b>58.3</b>
	<i>Mfr 15-day</i>	<i>All</i>	<b>20,200</b>	<b>13.0</b>
		Central nervous system agents	4,264	2.7
		Anti-infective agents	3,851	2.5
		Antineoplastic agents	3,165	2.0
		Cardiovascular drugs	2,582	1.7
		Hormones and synthetic substitutes	1,274	0.8
	<i>Mfr Periodic</i>	<i>All</i>	<b>56,998</b>	<b>36.6</b>

		Central nervous system agents	15,324	9.9
		Anti-infective agents	8,061	5.2
		Cardiovascular drugs	5,953	3.8
		Hormones and synthetic substitutes	5,434	3.5
		Antineoplastic agents	3,962	2.5
	<i>Direct</i>	<i>All</i>	<i>13,473</i>	<i>8.7</i>
		Central nervous system agents	3,713	2.4
		Anti-infective agents	2,477	1.6
		Cardiovascular drugs	1,736	1.1
		Antieoplastic agents	1,398	0.9
		Blood formation and coagulation	919	0.6

### ROUTES OF SUSPECT DRUGS

Table 6 presents the top-10 ranked routes of administration associated with the suspect drugs. There were 156,759 routes mentioned in conjunction with the 159,504 postmarket ADE cases. About three-fifths of the route mentions noted the oral route of administration.

**Table 6. Postmarket ADE Reports by Top-10 Ranked Routes of Administration of Suspect Drugs: 1996**

	N	%
<i>All Routes</i>	<i>156,759</i>	<i>100</i>

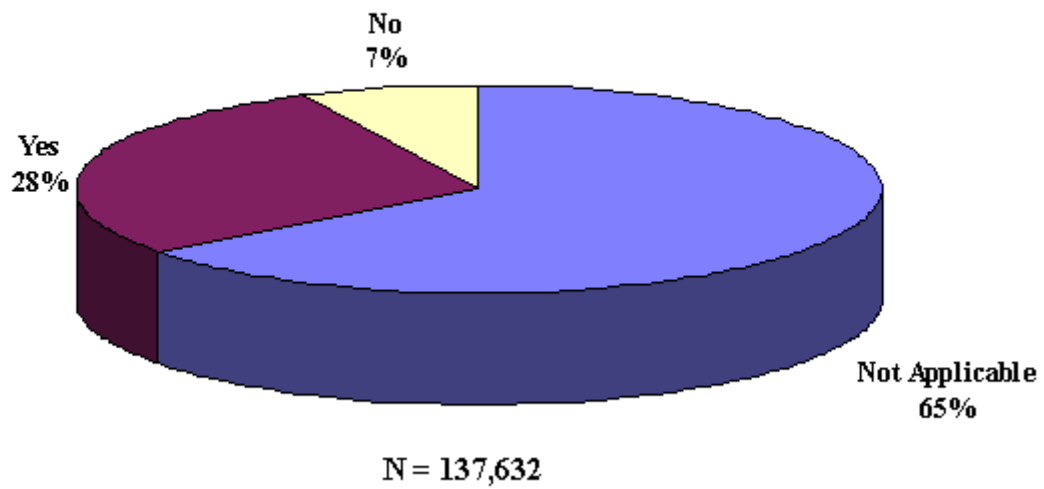


<b>Oral</b>	99,421	63.4
<b>Intravenous</b>	14,873	9.5
<b>Subcutaneous</b>	8,204	5.2
<b>Topical</b>	8,181	5.2
<b>Transdermal</b>	7,460	4.8
<b>Vaginal</b>	3,798	2.4
<b>Inhalation</b>	2,739	1.7
<b>Intrauterine</b>	2,318	1.5
<b>Ophthalmic</b>	2,094	1.3
<b>Intramuscular</b>	2,029	1.3

### **ABATEMENT OF ADVERSE EVENT**

For the 174,905 suspect drug mentions, 78.7% (137,632) had an answer to the question of whether the adverse event abated after the suspect drug was stopped or the dose was reduced. Figure 7 shows the distribution of responses. About one-quarter of these 137,632 abate mentions indicated a positive dechallenge ("Yes" response).

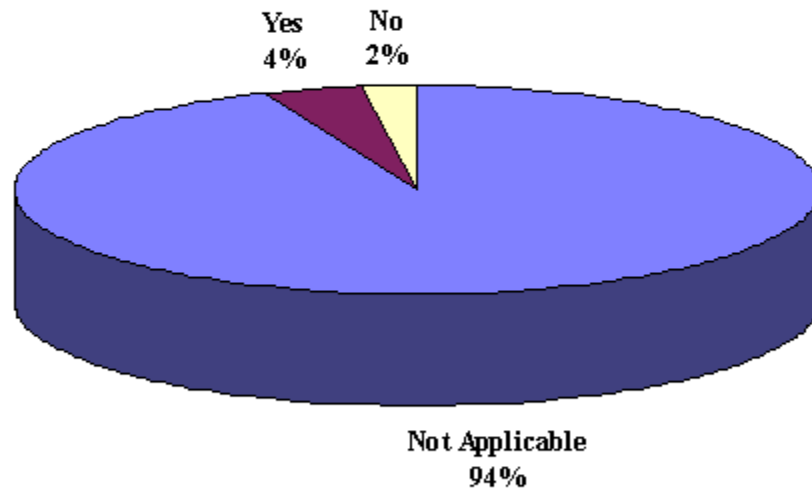
**Figure 7. Postmarket ADE Reports by Abate response: 1996**



### **REOCCURRENCE OF ADVERSE EVENT**

For the 174,905 suspect drug mentions, 76.2% (132,296) had an answer to the question of whether the adverse event reappeared after reintroduction of the suspect drug. Figure 8 shows the distribution of responses. Four percent (5,309) of these 132,296 reoccurrences indicated a positive rechallenge ("Yes" response).

**Figure 8. Postmarket ADE Reports by Reintroduction Response: 1996**

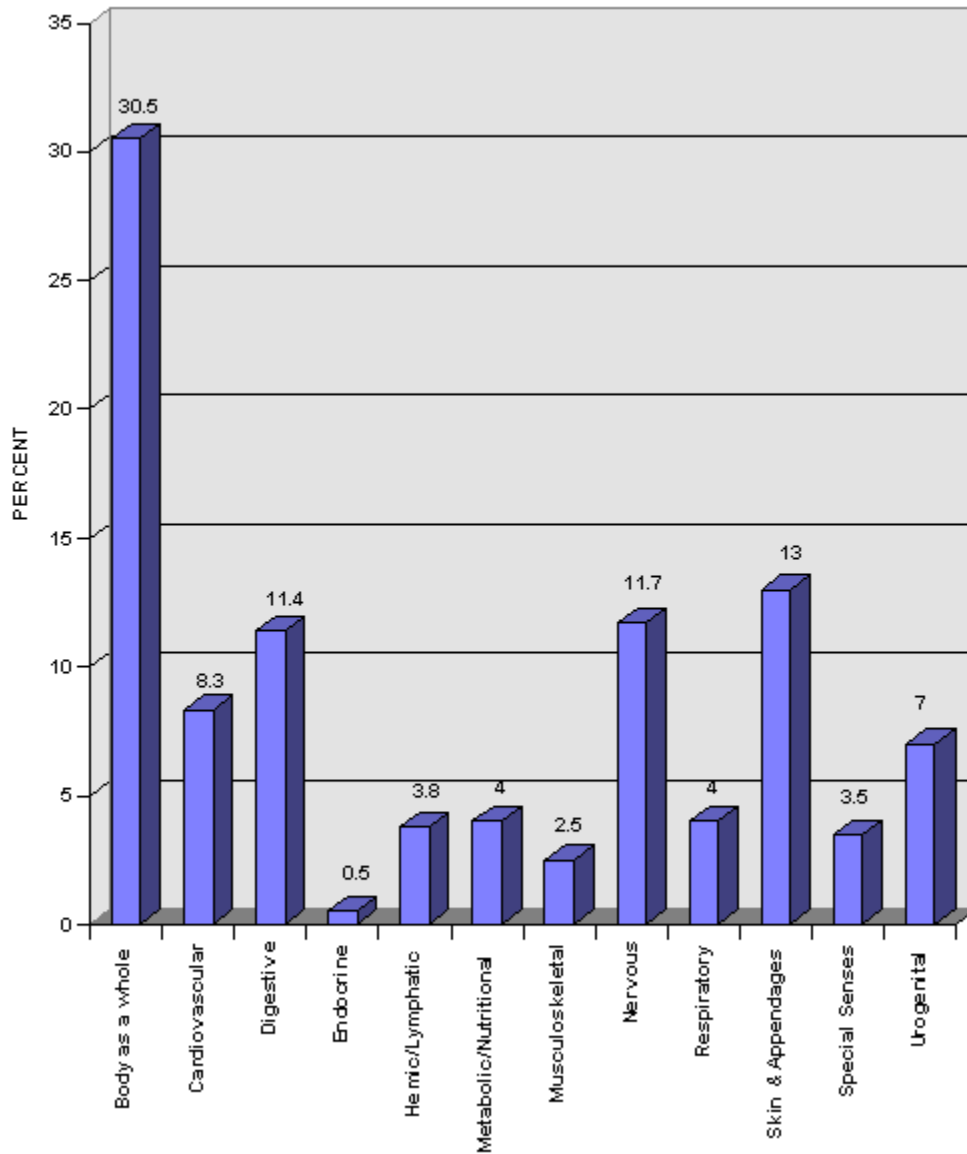


**N = 132,296**

### **BODY SYSTEMS**

There were 159,515 body system mentions associated with the adverse events of the 159,504 postmarket ADE cases. The distribution of these mentions across the 12 body system mentions is presented in Figure 9. Four body systems each had > 10% of the 159,515 body system mentions: body as a whole (systemic adverse events) - 30.5%, skin and appendages system - 13%, nervous system - 11.7%, and digestive system - 11.4%.

**Figure 9. Postmarket ADE Reports by Body System:  
1996**



**N = 159,515**

### **ADVERSE EVENTS**

Table 7 shows the top-10 ranked adverse events reported with the 159,504 postmarket ADE cases. The top ranked ADE was " No drug effect: - 10% of the ADE cases reported this event.

**Table 7. Top-10 Ranked Adverse Events: 1996**

<b>Adverse Event</b>	<b>N</b>	<b>%</b>
<i>All Postmarket ADE Reports</i>	<i>159,504</i>	<i>100</i>
<b>No drug effect</b>	15,918	10.0
<b>Headache</b>	5,133	3.2
<b>Rash</b>	4,090	2.6
<b>Application site reaction</b>	3,583	2.2
<b>Diarrhea</b>	2,445	1.5
<b>Urticaria</b>	2,373	1.4
<b>Alopecia</b>	2,237	1.4
<b>Aggravation of existing reaction</b>	2,236	1.4
<b>Dizziness</b>	2,002	1.3
<b>Abdominal pain</b>	1,875	1.2

**DRUG CLASSES ASSOCIATED WITH BODY SYSTEM ADVERSE EVENTS**

Table 8 presents the four body systems comprising the most adverse events, each of which has been crosstabulated by its top-five ranked suspect associated drug classes<sup>3</sup>. Three drug classes were in the top-five ranks for all four body systems, central nervous system agents, cardiovascular drugs, and anti-infective agents.

**Table 8. Top-4 Ranked Body Systems with Their Respective Top-5 Ranked Suspect Drug Classes: 1996**

<b>Body System</b>	<b>Suspect Drug Class</b>	<b>N</b>	<b>%</b>
<b><i>Body as a whole</i></b>	<b><i>All</i></b>	<b><i>53,050</i></b>	<b><i>100</i></b>
	Central nervous system agents	12,131	22.9
	Hormones and synthetic substitutes	7,216	13.6
	Skin and mucous membrane agents	6,378	12.0
	Anti-infective agents	4,816	9.1
	Cardiovascular drugs	4,566	8.6
<b><i>Skin and Appendages</i></b>	<b><i>All</i></b>	<b><i>21,792</i></b>	<b><i>100</i></b>
	Hormones and synthetic substitutes	3,948	18.1
	Skin and mucous membrane agents	3,689	16.9
	Anti-infective agents	3,178	14.6
	Central nervous system agents	2,941	13.5
	Cardiovascular drugs	1,931	8.9
<b><i>Nervous System</i></b>	<b><i>All</i></b>	<b><i>20,515</i></b>	<b><i>100</i></b>
	Central nervous system agents	8,265	40.3
	Anti-infective agents	2,209	10.8
	Cardiovascular drugs	1,763	8.6
	Hormones and synthetic substitutes	1,463	7.1
	Autonomic drugs	1,425	7.0
<b><i>Digestive System</i></b>	<b><i>All</i></b>	<b><i>20,059</i></b>	<b><i>100</i></b>

	Central nervous system agents	4,105	20.5
	Anti-infective agents	4,081	20.3
	Gastrointestinal drugs	2,355	11.7
	Unclassified therapeutic agents	2,256	11.2
	Cardiovascular drugs	1,900	9.5

## ANNUAL FOI REPORT

**1996**

In 1996, the Surveillance and Data Processing Branch (SDPB) received a total of 2,162 Freedom of Information (FOI) requests. These requests were for adverse reaction cases collected by the Food and Drug Administration's Spontaneous Reporting System (SRS). All requests are logged in by the central FOI office and triaged to various responsive divisions throughout the Center for Drugs.

SDPB processed FOI requests utilizing several forms of data accession. Compressed ASCII files were provided to mostly third-party businesses. Microfiche line listings or paper copies were also available depending on the preference of the requester. Case reports from the SRS database were obtained by people wanting a formalized version of the Medwatch form.

Law firms comprised the most FOI requests, with third-party organizations ranking second. Third were the pharmaceutical companies and last were consumers. However, consumers made more inquiries in 1996 than in previous years. This could have been attributed to media reporting and those consumers wanting to establish a more significant role in their drug therapy.

Hal Stepper