Special Feature

Gluten Content of the Top 200 Medications: Follow-Up to the Influence of Gluten on a Patient's Medication Choices

Allison R. King, PharmD,* and University of Kansas Drug Information Center Experiential Rotation Students, August 2012[†]

eliac sprue is an autoimmune disease affecting the digestive system and occurs when gluten proteins, commonly found in wheat, barley, and rye, are not fully digested, stimulating an inflammatory process in the small intestine. ¹⁻³ Symptoms can appear at any point in life and can range from gastrointestinal upset, headache, low weight gain (weight loss), osteoporosis, depression, and infertility. ¹⁻⁴ Due to the variety of symptoms, celiac sprue is often underdiagnosed. ^{1,2} Current estimates find that the disease affects 1 out of every 100 to 133 Americans. ^{1,2,4,5}

Treatment for celiac sprue includes complete avoidance of gluten in products that are ingested or come into contact with the mouth, including medications, lip balm, and Play-Doh.1-7 Ingestion of amounts as small as 30 to 50 mg may illicit an adverse event in patients.8 However, identification of gluten in products can be cumbersome. For food, per the FDA Food Act 2004, identification of wheat (along with milk, egg, fish, crustacean, shellfish, tree nuts, peanuts, and soybeans) on product labels, including flavorings, colorings, or additives contaminated with such, is required.7 Allergen identification is not required for medications where gluten can be found within the inactive ingredients (such as starches or starch derivatives) or transferred through the manufacturing process.¹ Ideally, this information would be contained in the package insert; however, inactive ingredients and manufacturing processes can change or are not fully described. Potential sources of gluten are not always recognized by health care professionals.1

Patients are therefore required to double-check the content of all their medications before ingestion, which can become quite burdensome depending on the number of medications and availability of information

because one "good" resource is not available. Pharmacists are in a prime setting for consultation; however, without reliable resources for determining gluten content and adequate time, their job becomes labor intensive. Available resources include a Web site, glutenfreedrugs.com, that is maintained by a clinical pharmacist and contains a list of gluten-free medications, previous lists published by Hospital Pharmacy, and a list of nonprescription drugs published in the Nov/Dec 2011 edition of the Journal of the American Pharmacists Association. 6,9 Other resources include the Celiac Disease Foundation (www.celiac.org), Celiac Sprue Association/USE Inc. (www.csaceliacs.org), and National Foundation for Celiac Awareness (www.celiaccentral.org); these Web sites do not contain a list of gluten-free medications, but they maintain education and support for patients. The National Foundation for Celiac Awareness offers a free continuing education program for pharmacists to provide them with a "reliable understanding of celiac disease and their role in dealing with gluten-intolerant patients."10 Other continuing education programs are available for allied health professionals, dietitians, mental health professionals, nurse practitioners, and nursing professionals for a nominal fee. These resources are available at www.celiaclearning.com.

In addition to answering patient and health care professional questions regarding the gluten content of medications, the University of Kansas Drug Information Center has updated previously published information with the gluten content of the top 200 drugs by total dollars and the top 200 drugs by total prescriptions, as published by *Pharmacy Times* in July 2012.¹¹ The list was compiled by contacting manufacturers of the respective agents in August 2012 and asking if the [specific] drug was considered to be gluten-free. Manufacturers' phone numbers were

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obtained from the *Red Book* and *Facts & Comparisons*. 12,13 Only answers of "yes" or "no" were accepted, and all "yes" answers required written documentation unless otherwise noted. Companies that declined to participate were recorded as "no" answers. **Table 1** summarizes the information found from the manufacturers, and it is a good starting place for practitioners when searching for a gluten-free medication. However, it is essential to double-check with the manufacturer regarding specific products, as inactive ingredients and manufacturing processes can change. The University of Kansas Drug Information Center is available to answer both patient and health care professional questions regarding the gluten content of medications (druginfo@ku.edu).

ACKNOWLEDGMENTS

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Table 1

2011 Top 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 response
4	83	Abilify	Otuska	(301) 990-0030	No [§]
184	_	Abraxane	Celgene	(888) 423-5436	Yes [†]
67	_	Aciphex	Eisai	(201) 692-1100	Yes
104	_	Actonel	Warner Chilcott	(800) 521-8813	Yes ^{†‡}
137	_	Actoplus Met	Takeda	(877) 872-3700	Yes [‡]
13	59	Actos	Takeda	(877) 872-3700	Yes [‡]
151	_	Adacel	Sanofi-Aventis	(908) 243-6000	Yes ^{†‡}
62	_	Adderall XR	Shire US Inc.	(859) 669-8000	Yes*‡
5	22	Advair Diskus	GlaxoSmithKline	(888) 825-5249	No
138	_	AggreNox	Boehringer Ingelheim	(203) 798-9988	Yes ^{*†}
_	96	Albuterol	Mylan	(304) 599-2595	Yes
_	116	Alendronate	Watson	(973) 355-8398	No
_	171	Alendronate	Teva	(888) 838-2872	No§
58	_	Alimta	Lilly	(317) 276-2000	Yes [†]
_	113	AllopuriNol	Mylan	(304) 599-2595	Yes
134	_	Aloxi	Eisai	(201) 692-1100	No
_	37	Alprazolam	Actavis	(908) 653-8100	No [§]
_	123	Alprazolam	Dava	(866) 947-3282	Yes*†‡
_	68	Alprazolam	Greenstone/Pfizer	(800) 435-7095	Yes*†‡
_	122	Alprazolam	Sandoz	(609) 627-6000	Yes*†‡
_	163	Alprazolam	Qualitest	(256) 859-4011	Yes*‡†
_	120	Amitriptyline	Mylan	(304) 599-2595	Yes
_	63	Amlodipine besylate	Camber	(866) 495-1995	Yes
_	90	Amlodipine besylate	Mylan	(304) 599-2595	Yes
_	29	Amlodipine besylate	Greenstone/Pfizer	(800) 435-7095	Yes*†‡
_	47	Amlodipine besylate	Lupin	(410) 576-2000	Yes*†‡
_	190	Amlodipine besylate	Zydus	(609) 275-5125	Yes [†]
_	20	Amoxicillin	Teva	(888) 838-2872	No§
_	133	Amoxicillin	West-Ward	(732) 542-1191	Yes
_	172	Amoxicillin	Greenstone	(800) 435-7095	Yes*†‡
_	27	Amoxicillin	Sandoz	(609) 627-6000	Yes*†‡
_	114	Amoxicillin/Clavulanate	Teva	(888) 838-2872	No§
_	42	Amoxicillin/Clavulanate	Sandoz	(609) 627-6000	Yes*†‡
106	154	Amphetamine salt ER	Teva	(888) 838-2872	No§
135	_	Amphetamine salt ER	Global	(800) 934-6729	Yes [†]
49	_	AndroGel	Abbott Pharm	(800) 255-5162	Yes ^{*‡}
154	_	Angiomax	The Medicines Company	(973) 956-1616	Yes
_	138	APAP/Codeine	Qualitest	(256) 859-4011	Yes*‡†
48	_	Aranesp	Amgen	(800) 772-6436	No
107	_	Asacol	Warner Chilcott	(800) 521-8813	Yes ^{†‡}
_	70	AteNolol	Mylan	(304) 599-2595	Yes
_	159	AteNolol	Sandoz	(609) 627-6000	Yes ^{*†‡}
_	164	AteNolol	Ranbaxy	(904) 296-0019	Yes [†]
_	141	AteNolol	Zydus	(609) 275-5125	Yes [†]
162	_	Atorvastatin	Watson	(973) 355-8398	No
22	-	Atripla	Bristol-Myers Squibb/Gilead Sciences	(800) 332-2056	Yes [†]
142	_	Avapro	Bristol-Myers Squibb US Med	(800) 332-2056	Yes*
21	_	Avastin	Genentech	(650) 225-1000	No
180	_	Avelox	Schering	(800) 526-4099	No
117	_	Avodart	GlaxoSmithKline	(888) 825-5249	Yes [†]
33		Avonex	Biogen Idec	(617) 679-2000	Yes [‡]
	9	Azithromycin	Teva	(888) 838-2872	No [§]
_	24	Azithromycin	Greenstone/Pfizer	(800) 435-7095	Yes*†‡
_	93	Azithromycin	Sandoz	(609) 627-6000	Yes*†‡
89	151	Benicar	Daiichi Sankyo	(973) 359-2600	Yes*‡

Table 1 (CONT.)

2011 Fop 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 respons
100	181	Benicar HCT	Daiichi Sankyo	(973) 359-2600	Yes ^{*‡}
86	-	Betaseron	Bayer	(888) 842-2937	Yes*
102	-	Boniva	Roche Labs	(800) 526-0625	Yes* ^{‡†}
69	-	Budesonide	Teva	(888) 838-2872	No [§]
188	-	Bupropion HCI XL	Mylan	(304) 599-2595	Yes
120	405	Byetta	Amylin	(858) 552-2200	Yes [†] No
164	165 148	Bystolic Carisoprodol	Forest Pharm Qualitest	(800) 678-1605 (256) 859-4011	Yes*‡†
	156	Carvedilol	Mylan	(304) 599-2595	No
	86	Carvedilol	Teva	(888) 838-2872	No [§]
29	74	Celebrex	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
_	82	Cephalexin	Teva	(888) 838-2872	No [§]
_	173	Cephalexin	Lupin	(410) 576-2000	Yes*†‡
176	_	Chantix	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
_	179	Cheratussin AC	Qualitest	(256) 859-4011	Yes ^{*‡†}
75	115	Cialis	Lilly	(317) 276-2000	Yes
	69	Ciprofloxacin	Watson	(973) 355-8398	No
_	155	Ciprofloxacin	Dr Reddy's	(866) 733-3952	Yes
-	67	Citalopram	Amneal	(270) 629-2596	No
-	84	Citalopram	Torrent	(269) 544-2299	Yes [†]
-	175	Clindamycin	Ranbaxy	(904) 296-0019	Yes ^{†‡}
-	55	Clonazepam	Teva	(888) 838-2872	No [§]
-	101	Clonazepam	Mylan	(304) 599-2595	Yes
127	_	Colcrys	AR Scientific	(877) 960-2400	Yes*†‡
50	_	Combivent	Boehringer Ingelheim	(203) 798-9988	Yes*†
68	_	Concerta	Janssen	(908) 218-6000	Yes*†‡
17	-	Copaxone	Teva	(888) 838-2872	No [§]
8	10	Crestor	AstraZeneca	(302) 886-8800	Yes
101	-	Cubicin	Cubist	(781) 860-8660	No response
-	85 81	Cyclobenzaprine Cyclobenzaprine	Cadista Mylan	(410) 860-8500 (304) 599-2595	Yes Yes
9	23	Cymbalta	Lilly	(317) 276-2000	Yes [†]
95	_	Detrol LA	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
114		Dexilant	Takeda	(877) 872-3700	Yes [‡]
	200	Diazepam	Teva	(888) 838-2872	No [§]
_	105	Diazepam	Mylan	(304) 599-2595	Yes
_	134	Digoxin	Lannett	(215) 333-9000	Yes
27	34	Diovan	Novartis	(862) 778-8300	Yes [†]
32	57	Diovan HCT	Novartis	(862) 778-8300	Yes [†]
193	_	Docetaxel	Hospira	(877) 946-7747	Yes
175	_	Donepezil	Greenstone	(800) 435-7095	No
-	188	Doxycycline hyclate	Watson	(973) 355-8398	No
-	132	Doxycycline hyclate	West-Ward	(732) 542-1191	Yes
169	_	Effexor XR	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
45	-	Eloxatin	Sanofi-Aventis	(908) 243-6000	Yes ^{†‡}
- 11	177	Enalapril	Mylan	(304) 599-2595 (800) 772-6436	Yes
11	196	Enbrel Endocet	Amgen Endo Labs	(800) 772-6436 (610) 558-9800	No No
37	196	Enoxaparin	Sandoz	(609) 627-6000	Yes*†‡
20		Epogen	Amgen	(800) 772-6436	No
133	_	Epzicom	GlaxoSmithKline	(888) 825-5249	Yes*‡
88	_	Erbitux	Lilly/Bristol-Myers Squibb	(317) 276-2000	Yes [†]
87	_	Evista	Lilly	(317) 276-2000	Yes
146	_	Exelon	Novartis	(862) 778-8300	No
182	-	Exforge	Novartis	(862) 778-8300	No
_	167	Famotidine	Teva	(888) 838-2872	No [§]
136	_	Fentanyl	Mylan	(304) 599-2595	Yes
64	146	Flovent HFA	GlaxoSmithKline	(888) 825-5249	Yes*‡
-	54	Fluconazole	Teva	(888) 838-2872	No [§]
-	65	Fluoxetine	Teva	(888) 838-2872	No [§]
-	145	Fluoxetine	Sandoz	(609) 627-6000	Yes*†‡
-	124	Fluticasone propionate	Hi-Tech Pharmacal	(631) 789-8228	No [§]
179	30	Fluticasone propionate	Roxane	(614) 276-4000	No [§]

Table 1 (CONT.)

115	2011 Top 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 respons
141	_		Fluticasone propionate	Apotex	(954) 384-8007	Yes [‡]
141	116	_	Focalin XR	Novartis	(862) 778-8300	Yes*†
- 80 Furosemide Roxane (814) 276-4000 No ⁵ - 111 Furosemide Teva (888) 838-2872 No ⁵ - 91 Furosemide Mylan (304) 559-2595 Yes - 66 Furosemide Ranbary (804) 259-2059 Yes - 61 Gabapentin Amneal (270) 629-2596 No - 169 Gabapentin Amneal (270) 629-2596 No - 169 Gabapentin Glemmark (201) 648-8000 Yes - 182 Gabapentin Glemmark (201) 648-8000 Yes - 182 Gabapentin Glemmark (201) 648-8000 Yes - 112 - Gamunex Grifols USA (888) 474-3657 Yes - 155 - Gardsail Merck (800) 677-6372 Yes - 155 - Gardsail Merck (800) 677-6372 Yes - 155 - Gardsail Merck (800) 677-6372 Yes - 157 - Geodon Pitzer U.S.P.G. (800) 533-4335 Yes - 157 - Gileave Novartis (862) 7778-8300 Yes - 167 - Gileave Novartis (862) 7778-8300 Yes - 167 - Gileave Novartis (862) 7778-8300 Yes - 167 - Hurnalog Lilly (888) 838-2872 No - 161 - Hurnalog Lilly (317) 276-2000 Yes - 174 (Glyburide Teva (888) 838-2872 No - 161 - Hurnalog Lilly (317) 276-2000 Yes - 171 - Hurnalog Lilly (317) 276-2000 Yes - 31 Hydrochlorobhazide Teva (888) 838-2872 No - 31 Hydrochlorobhazide (256) 859-4011 Yes - 185 - 1 Hydrocodone/APAP Watson (973) 355-8398 No - 31 Hydrocodone/APAP Mallinckrodt (256) 859-4011 Yes - 185 - 1 Hydrocodone/APAP Mallinckrodt (256) 859-4011 Yes - 185 - 1 Hydrocodone/APAP Mallinckrodt (256) 859-4011 Yes - 185 - 1 Hydrocodone/APAP Mallinckrodt (256) 859-4011 Yes - 185 - I Inchek Vertex (170) 576-331 Yes - 186 Levotynovine sodium Merck (180) 672-6372 Yes - 192 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 192 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 193 Januwat Merck (190) 672-6372 Yes - 194 Lawenir Merck (190) 672-6372 Yes - 195 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 196 Levotynovine sodium Mylan (300) 672-6372 Yes - 196 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 196 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 196 Libuprofen (Rx) Dr Reddy's (866) 733-3952 Yes - 197 Libuprofen (Rx) Dr Reddy's (866) 733-3953 Yes - 198 Libuprofen (Rx) Dr Reddy's (866) 733-3953 Yes - 198 Libuprofen (Rx) Dr Reddy's (866) 733-3953 Yes - 198 Libuprofen (Rx) Dr Re	_	176	Folic acid	West-Ward	(732) 542-1191	Yes
− 111 Furosemide feva (888) 338-2272 No ⁵ − 91 Furosemide Rambaxy (904) 298-2019 Yes − 61 Gabapentin Anneal (270) 629-2596 No ⁵ − 169 Gabapentin Actavis (908) 653-8100 No ⁵ − 182 Gabapentin Glenmark (201) 684-8000 Yes ² 1123 − Gammagard liquid Baxter (888) 229-20001 Yes ² 1124 − Gamunex Grifols USA (888) 474-3857 Yes 155 − Gardasil Merck (800) 572-8372 Yes ³ 38 − Geodon Pfizer U.S.P.G. (800) 533-4535 Yes ³ 167 − Gilenya Novaris (862) 778-8300 Yes ³ 167 − Gilevac Novaris (862) 778-8300 No 35 − Gilevac Novaris (862) 778-8300 No 161 −	141	_	Forteo	Lilly	(317) 276-2000	Yes
− 91 Furosemide Nylan (304) 599-2595 Yes¹ − 66 Furosemide Ranbaxy (904) 296-0019 Yes¹ − 61 Gabapentin Anneal (270) 629-2596 No¹ − 169 Gabapentin Clemnark (201) 684-8000 Yes¹ − 169 Gabapentin Glemnark (201) 684-8000 Yes¹ 123 − Gamunex Grifols USA (888) 229-0001 Yes¹ 112 − Gamunex Grifols USA (889) 8174-3657 Yes¹ 155 − Gardasil Merck (800) 672-6372 Yes¹ 155 − Gardasil Merck (800) 672-6372 Yes¹ 167 − Glienya Novaris (802) 753-830 Yes¹ 167 − Gilenya Novaris (862) 778-8300 No 167 − Gilenya Novaris (862) 778-8300 No 167 High Gilpide <td>_</td> <td>80</td> <td>Furosemide</td> <td>Roxane</td> <td>(614) 276-4000</td> <td>No[§]</td>	_	80	Furosemide	Roxane	(614) 276-4000	No [§]
66 Fursemide Ranbaxy (904) 296-0019 Ves¹ - 611 Gabapentin Amneal (270) 629-2596 No¹ - 169 Gabapentin Actavis (908) 653-8100 No¹ - 169 Gabapentin Actavis (908) 653-8100 No¹ - 182 Gabapentin Glenmark (201) 684-8000 Ves¹ 123 - 6 Gammagard liquid Baxter (888) 229-0001 Ves¹ 112 - Gammagard liquid Baxter (888) 229-0001 Ves¹ 155 - Gardasil Merck (800) 672-6372 Ves° 38 - Gardasil Merck (800) 672-6372 No¹ 167 - Gilepizde Mylan (304) 599-2595 Ves 187 - Gardasil Mylan (304) 599-2595 No¹ 121 - Humalog Kwikpen Lilly (307) 276-2000 Ves¹ 121 - Gardasil Mylan (304) 699-2595 No¹ 121 - Gardasil Mylan (304) 699-2595 No¹ 121 - Gardasil Mylan (304) 699-2595 Ves¹ 121 - Gardasil Mylan (304) 599-2595 Ves¹ 121 - Gardasil Mylan (304) 5	_	111	Furosemide	Teva	(888) 838-2872	No [§]
− 61 Gabapentin Ammeal (270) 629-2596 No¹ − 169 Gabapentin Glenmark (201) 684-8000 Yes¹ 123 − Gampare Glenmark (201) 684-8000 Yes¹ 112 − Gamunex Grifols USA (888) 229-0001 Yes² 1155 − Gardsail Merck (800) 672-6372 Yes² 155 − Gardsail Merck (800) 672-6372 Yes² 155 − Gardsail Merck (800) 672-6372 Yes² 155 − Gardsail Merck (800) 672-6372 Yes² 167 − Glenya Novaris (882) 778-8300 Yes³ 167 − Glenya Novaris (862) 778-8300 No − 174 Giphuride Teva (888) 838-2872 No³ 31 − Herceptin Genetach (650) 225-1000 No 191 + Humalog	_	91	Furosemide	Mylan	(304) 599-2595	Yes
− 169 Gabapentin Actavis (908) 653-8100 No ⁵ − 182 Gabapentin Glenmark (201) 694-9000 Yes ⁷ 1123 − Gammagard Ilquid Baxter (888) 229-9001 Yes ⁷ 1155 − Gardasil Merck (800) 633-4557 Yes ⁷ 155 − Gardasil Merck (800) 633-4535 Yes ¹⁷ 38 − Geodon Pfizer U.S.P.G. (800) 533-4535 Yes ¹⁷ 167 − Glenya Novartis (862) 7778-8300 Yes ¹⁸ 167 − Gleevec Novartis (862) 7778-8300 No 155 − Gleevec Novartis (862) 7778-8300 No 121 − Herceptin Genetech (650) 5225-1000 No 151 − Herceptin Genetech (650) 225-1000 No 151 − Humalog Lilly (317) 276-2000 Yes ¹ 121 − </td <td>_</td> <td>66</td> <td>Furosemide</td> <td>Ranbaxy</td> <td>(904) 296-0019</td> <td>Yes[†]</td>	_	66	Furosemide	Ranbaxy	(904) 296-0019	Yes [†]
- 182	_	61	Gabapentin	Amneal	(270) 629-2596	No
- 182	_	169	Gabapentin	Actavis	(908) 653-8100	No [§]
123	_	182	Gabapentin	Glenmark	(201) 684-8000	
112	123	_	'	Baxter		
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− 187 Glipizide Mylan (304) 599-2595 Yes − 174 Glyburide Teva (888) 383-257 No ⁵ 31 − Herceptin Genentech (650) 225-1000 No 61 − Humalog Lilly (317) 276-2000 Yes¹ 121 − Humira Abbott Pharm (800) 255-5162 No 10 − Humira Abbott Pharm (800) 255-5162 No − 31 Hydrochorothiazide Qualitest (256) 859-4011 Yes¹¹ − 32 Hydrocodone/APAP Watson (973) 355-8398 No − 139 Hydrocodone/APAP Amneal (270) 629-2596 No¹ − 139 Hydrocodone/APAP Mallinckrodt (314) 664-2000 Yes¹¹¹ − 14 Hydrocodone/APAP Qualitest (256) 859-4011 Yes¹¹¹ − 18 Ibuprofen (Rx) Amneal (270 629-2596 No¹ −		_			· /	
− 174 Glyburide Teva (888) 838-2872 № 5 311 − Herceptin Genentech (650) 225-1000 No 61 − Humalog Lilly (317) 276-2000 Yes¹ 121 − Humalog Kwikpen Lilly (317) 276-2000 Yes¹ 10 − Humira Abbott Pharm (800) 255-5162 No − 31 Hydrochlorothiazide Teva (888) 838-2872 No³ − 32 Hydrocodone/APAP Watson (973) 555-8398 No − 139 Hydrocodone/APAP Mallinckrodt (314) 654-2000 Yes¹¹¹ − 2 Hydrocodone/APAP Mallinckrodt (314) 654-2000 Yes¹¹¹ − 14 Hydrocodone/APAP Mallinckrodt (314) 654-2000 Yes¹¹¹ − 2 Hydrocodone/APAP Mallinckrodt (314) 654-2000 Yes¹¹¹ − 18 Ibuprofen (Rx) Arneal (270) 629-2596 No¹ <tr< td=""><td>_</td><td></td><td></td><td></td><td></td><td></td></tr<>	_					
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- 31 Hydrochlorothiazide Teva (888) 838-2872 No ⁵ - 32 Hydrochlorothiazide Qualitest (256) 859-4011 Yes ¹¹ 185 1 Hydrocodone/APAP Walson (973) 355-8398 No - 139 Hydrocodone/APAP Amneal (270) 629-2596 No ¹ - 2 Hydrocodone/APAP Mallinckrodt (314) 654-2000 Yes ¹¹ - 14 Hydrocodone/APAP Qualitest (266) 859-4011 Yes ¹¹ - 18 Ibuprofen (Rx) Amneal (270) 629-2596 No ¹ - 92 Ibuprofen (Rx) Amneal (270) 629-2596 No ¹ - 92 Ibuprofen (Rx) Amneal (270) 629-2596 No ¹ - 92 Ibuprofen (Rx) Amneal (270) 629-2596 No ¹ 71 - Incext Vertx (617) 576-3111 Yes ¹ 158 - Invest Vertx (617) 576-3111 Yes ¹ <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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− 12 Levothyroxine sodium Lannett (215) 333-9000 Yes − 3 Levothyroxine sodium Mylan (304) 599-2595 Yes − 186 Levothyroxine sodium Sandoz (609) 627-6000 Yes¹¹¹¹ − 158 Levoxyl Pfizer U.S.P.G. (800) 533-4535 Yes¹¹¹ 18 16 Lexapro Forest Pharm (800) 678-1605 Yes¹¹¹ 149 − Lexiscan Astellas (847) 317-8800 Yes¹¹ 166 − Lialda Shire US Inc. (859) 669-8000 Yes¹ 43 192 Lidoderm Endo Labs (610) 558-9800 Yes¹ 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes¹¹¹¹ − 108 Lisinopril Watson (973) 355-8398 No − 153 Lisinopril Teva (888) 838-2872 No§ − 199 Lisinopril Mylan (304) 599-2595 Yes²¹¹	79	183	Levaquin	Janssen	(908) 218-6000	Yes*†‡
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− 186 Levothyroxine sodium Sandoz (609) 627-6000 Yes⁻¹† − 158 Levoxyl Pfizer U.S.P.G. (800) 533-4535 Yes⁻¹† 18 16 Lexiscan Forest Pharm (800) 678-1605 Yes⁻¹ 149 − Lexiscan Astellas (847) 317-800 Yes⁻¹ 166 − Lialda Shire US Inc. (859) 669-8000 Yes 43 192 Lidoderm Endo Labs (610) 558-9800 Yes⁻¹ 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes⁻¹† − 108 Lisinopril Watson (973) 355-8398 No − 153 Lisinopril Teva (888) 838-2872 No⁵ − 199 Lisinopril Mylan (304) 599-2595 Yes⁻¹ − 4 Lisinopril Lupin (410) 576-2000 Yes⁻¹¹ − 76 Lisinopril Sandoz (609) 627-6000 Yes⁻¹† −	-					Yes
- 158 Levoxyl Pfizer U.S.P.G. (800) 533-4535 Yes ^{††} 18 16 Lexapro Forest Pharm (800) 678-1605 Yes [†] 149 - Lexiscan Astellas (847) 317-8800 Yes [†] 166 - Lialda Shire US Inc. (859) 669-8000 Yes 43 192 Lidoderm Endo Labs (610) 558-9800 Yes [†] 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes ^{††} - 108 Lisinopril Watson (973) 355-8398 No - 153 Lisinopril Teva (888) 838-2872 No [§] - 199 Lisinopril Mylan (304) 599-2595 Yes [*] - 4 Lisinopril Lupin (410) 576-2000 Yes ^{††} - 76 Lisinopril Sandoz (609) 627-6000 Yes ^{††} - 162 Lisinopril Qualitest (256) 859-4011 Yes ^{††}	_	3	Levothyroxine sodium	Mylan	(304) 599-2595	
18 16 Lexapro Forest Pharm (800) 678-1605 Yes¹¹ 149 - Lexiscan Astellas (847) 317-8800 Yes¹ 166 - Lialda Shire US Inc. (859) 669-8000 Yes 43 192 Lidoderm Endo Labs (610) 558-9800 Yes¹ 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes¹¹t² - 108 Lisinopril Watson (973) 355-8398 No - 153 Lisinopril Teva (888) 838-2872 No⁵ - 199 Lisinopril Mylan (304) 599-2595 Yes² - 4 Lisinopril Lupin (410) 576-2000 Yes²¹¹² - 76 Lisinopril Sandoz (609) 627-6000 Yes²¹¹² - 162 Lisinopril Qualitest (256) 859-4011 Yes²¹†	-	186	Levothyroxine sodium	Sandoz	(609) 627-6000	Yes ^{*†‡}
149 − Lexiscan Astellas (847) 317-8800 Yes [†] 166 − Lialda Shire US Inc. (859) 669-8000 Yes 43 192 Lidoderm Endo Labs (610) 558-9800 Yes [†] 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes ^{††} − 108 Lisinopril Watson (973) 355-8398 No − 153 Lisinopril Teva (888) 838-2872 No [§] − 199 Lisinopril Mylan (304) 599-2595 Yes [*] − 4 Lisinopril Lupin (410) 576-2000 Yes ^{††} − 76 Lisinopril Sandoz (609) 627-6000 Yes ^{††} − 162 Lisinopril Qualitest (256) 859-4011 Yes ^{††}	_	158	Levoxyl	Pfizer U.S.P.G.	(800) 533-4535	Yes ^{*†‡}
149	18	16	Lexapro	Forest Pharm	(800) 678-1605	Yes*†
166	149	_		Astellas	(847) 317-8800	Yes [†]
43 192 Lidoderm Endo Labs (610) 558-9800 Yes [‡] 1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes ^{†‡} - 108 Lisinopril Watson (973) 355-8398 No - 153 Lisinopril Teva (888) 838-2872 No [§] - 199 Lisinopril Mylan (304) 599-2595 Yes* - 4 Lisinopril Lupin (410) 576-2000 Yes ^{†‡} - 76 Lisinopril Sandoz (609) 627-6000 Yes ^{†‡} - 162 Lisinopril Qualitest (256) 859-4011 Yes ^{†‡}	166			Shire US Inc.		Yes
1 5 Lipitor Pfizer U.S.P.G. (800) 533-4535 Yes ^{†‡} - 108 Lisinopril Watson (973) 355-8398 No - 153 Lisinopril Teva (888) 838-2872 No [§] - 199 Lisinopril Mylan (304) 599-2595 Yes* - 4 Lisinopril Lupin (410) 576-2000 Yes ^{†‡} - 76 Lisinopril Sandoz (609) 627-6000 Yes ^{†‡} - 162 Lisinopril Qualitest (256) 859-4011 Yes ^{†‡}						
- 108 Lisinopril Watson (973) 355-8398 No - 153 Lisinopril Teva (888) 838-2872 No [§] - 199 Lisinopril Mylan (304) 599-2595 Yes* - 4 Lisinopril Lupin (410) 576-2000 Yes ^{††} - 76 Lisinopril Sandoz (609) 627-6000 Yes ^{††} - 162 Lisinopril Qualitest (256) 859-4011 Yes ^{††}						
- 153 Lisinopril Teva (888) 838-2872 No§ - 199 Lisinopril Mylan (304) 599-2595 Yes* - 4 Lisinopril Lupin (410) 576-2000 Yes'T - 76 Lisinopril Sandoz (609) 627-6000 Yes'T - 162 Lisinopril Qualitest (256) 859-4011 Yes'T	_			+		
- 199 Lisinopril Mylan (304) 599-2595 Yes* - 4 Lisinopril Lupin (410) 576-2000 Yes*†† - 76 Lisinopril Sandoz (609) 627-6000 Yes*†† - 162 Lisinopril Qualitest (256) 859-4011 Yes*††	_					
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- 76 Lisinopril Sandoz (609) 627-6000 Yes ^{*†‡} - 162 Lisinopril Qualitest (256) 859-4011 Yes ^{*‡†}						
- 162 Lisinopril Qualitest (256) 859-4011 Yes ^{'‡†}						
			•		. ,	
— 107 Lisinoprii Wockhardt America (800) 346-6854 Yes'	-		•		, ,	
- 41 Lisinopril/HCTZ Lupin (410) 576-2000 Yes ^{*†‡}	_		•			

Table 1 (CONT.)

2011 Top 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 respons
108	109	Loestrin 24 Fe	Warner Chilcott	(800) 521-8813	No
_	73	Lorazepam	Actavis	(908) 653-8100	No [§]
_	131	Lorazepam	Mylan	(304) 599-2595	Yes
_	150	Lorazepam	Ranbaxy	(904) 296-0019	Yes ^{†‡}
	117	Losartan	Teva	(888) 838-2872	No [§]
	152	Lovastatin	Lupin	(410) 576-2000	Yes ^{*†‡}
60	161	Lovaza	GlaxoSmithKline	(888) 825-5249	No
51	101	LoveNox	Sanofi-Aventis	(908) 243-6000	Yes
30	_	Lucentis	Genentech	(650) 225-1000	No
156	_	Lumigan	Allergan Inc.	(714) 752-4500	Yes*
74	_	Lunesta	Sunovion	(508) 481-6700	Yes [†]
28	77	Lyrica	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
191	11	Maxalt MLT	Merck	(800) 672-6372	No
-	71	Meloxicam	Lupin	(410) 576-2000	Yes*†‡
	71		· ·	, ,	
196		Menactra	Sanofi Pasteur	(800) 822-2463	Yes [™]
_	53	Metformin	Teva	(888) 838-2872	No [§]
-	110	Metformin	Aurobindo	(732) 839-9400	Yes
-	87	Metformin	Mylan	(304) 599-2595	Yes
	51	Metformin	Zydus	(609) 275-5125	Yes [†]
81		Methylphenidate ER	Watson	(973) 355-8398	No
	168	Methylprednisone	Cadista	(410) 860-8500	No
172	44	Metoprolol succinate	Watson	(973) 355-8398	No
140	40	Metoprolol succinate	Par	(201) 802-4000	Yes*
	144	Metoprolol succinate	Wockhardt America	(800) 346-6854	Yes [†]
-	13	Metoprolol tartrate	Mylan	(304) 599-2595	No
143	_	Mirena	Bayer	(888) 842-2937	Yes
36	102	Namenda	Forest Pharm	(800) 678-1605	Yes ^{*†}
_	160	Naproxen	Teva	(888) 838-2872	No [§]
54	78	Nasonex	Schering	(800) 526-4099	No
14	-	Neulasta	Amgen	(800) 772-6436	Yes*
63	-	Neupogen	Amgen	(800) 772-6436	Yes*
3	11	Nexium	AstraZeneca	(302) 886-8800	No
46	130	Niaspan	Abbott Pharm	(800) 255-5162	Yes ^{*‡}
128	-	Norvir	Abbott Pharm	(800) 255-5162	No
59	-	NovoLog	Novo Nordisk	(609) 987-5800	Yes
77	-	NovoLog Flexpen	Novo Nordisk	(609) 987-5800	Yes
190	-	NovoLog Mix Flexpen	Novo Nordisk	(609) 987-5800	Yes
163	-	Novoseven RT	Novo Nordisk	(609) 987-5800	No
178	-	Nutropin AQ	Genentech	(650) 225-1000	No
130	170	NuvaRing	OrgaNon	(800) 630-1253	Yes [†]
_	26	Omeprazole (Rx)	Mylan	(304) 599-2595	Yes
_	56	Omeprazole (Rx)	Dr Reddy's	(866) 733-3952	Yes*
-	21	Omeprazole (Rx)	Sandoz	(609) 627-6000	Yes ^{*†‡}
-	72	Omeprazole (Rx)	Kremers Urban	(262) 238-9994	Yes [†]
199	_	Omnipaque	GE Healthcare	(609) 514-6405	Yes ^{*‡}
183	_	Onglyza	Bristol-Myers Squibb	(609) 897-2000	Yes*†
96	_	Opana ER	Endo Labs	(610) 558-9800	Yes [‡]
97	_	Orencia	Bristol-Myers Squibb	(609) 897-2000	Yes*†
152	_	Ortho Tri-Cylen Lo	Janssen	(908) 218-6000	Yes*†‡
.02	121	Oxycodone	Mallinckrodt	. ,	Yes ^{*†‡}
	48	Oxycodone/APAP	Watson	(314) 654-2000 (973) 355-8398	No
	45	Oxycodone/APAP	Mallinckrodt	(314) 654-2000	Yes ^{*†‡}
19		OxyContin	Purdue Pharma		Yes*
19	129 193	Pantoprazole	Teva	(203) 588-8000 (888) 838-2872	Yes" No [§]
	193	Pantoprazole	Pfizer U.S.P.G.	(800) 533-4535	Yes ^{*‡†} (data based of Protonix)
_	143	Paroxetine	Zydus	(609) 275-5125	Yes [†]
122	140	Pegasys convenience pack	Roche Labs	(800) 526-0625	Yes*‡†
	166	Penicillin VK	Teva	(888) 838-2872	No§
			Bristol-Myers Squibb/Sanofi-		
2	7	Plavix	Aventis	(800) 332-2056	Yes*
168	_	Pneumovax 23	Merck	(800) 672-6372	Yes*

Table 1 (CONT.)

2011 Top 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 response
_	88	Potassium chloride	Watson	(973) 355-8398	No
-	135	Potassium chloride	Sandoz	(609) 627-6000	Yes*†‡
110	_	Pradaxa	Boehringer Ingelheim	(203) 798-9988	Yes ^{*†}
	38	Pravastatin	Teva	(888) 838-2872	No§
_	99	Prednisone	Watson	(973) 355-8398	No
_	112	Prednisone	Roxane	(614) 276-4000	No [§]
_	52	Prednisone	West-Ward	(732) 542-1191	Yes
_	180	Prednisone	Qualitest	(256) 859-4011	Yes*‡†
129	142	Premarin Tabs	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡
73	-	Prevnar 13	Pfizer U.S.P.G.	(800) 533-4535	Yes ^{*†‡}
98	_	Prezista	Janssen	(908) 218-6000	Yes [†]
113		Pristig	Pfizer U.S.P.G.	(800) 533-4535	No
147	_			. ,	Yes [†]
		Privigen	CSL Behring	(800) 683-1288	
65	17	ProAir HFA	Teva	(888) 838-2872	No [§]
44	-	Procrit	Janssen Biotech	(908) 218-6000	Yes [†]
124	-	Prograf	Astellas	(847) 317 - 8800	Yes [†]
-	147	Promethazine	Sandoz	(609) 627-6000	Yes* ^{†‡}
47	_	Provigil	Teva	(888) 838-2872	No [§]
157	-	Pulmozyme	Genentech	(650) 225-1000	No
189	_	QVAR	Teva	(888) 838-2872	No§
200	_	Ranexa	Gilead Sciences	(800) 445-3235	Yes
_	185	Ranitidine syrup	Amneal	(270) 629-2596	Yes
52	_	Rebif	EMD SeroNo	(781) 982-9000	Yes*†‡
159	_	Reclast	Novartis	(862) 778-8300	Yes*†
12	_	Remicade	Centocor	(610) 651-6000	Yes [†]
111	_	Renvela	Genzyme	(617) 252-7500	Yes [†]
84	_	Restasis	Allergan Inc.	(714) 752-4500	Yes*
148	_	Revlimid	Celgene	(888) 423-5436	Yes [†]
66	_	Reyataz	Bristol-Myers Squibb	(609) 897-2000	Yes ^{*†}
126			Janssen	(908) 218-6000	Yes*†‡
120	157	Risperdal Consta		(304) 599-2595	
15	157	Risperidone Rituxan	Mylan Genentech	(650) 225-1000	Yes No
103	_	Sandostatin LAR	Novartis	(862) 778-8300	Yes [†]
105	_	Sensipar	Amgen	(800) 772-6436	No
6	43	Serisipal	Arrigen	(302) 886-8800	No
57	-	Seroquel XR	AstraZeneca	(302) 886-8800	No
	60	Sertraline	Camber	(866) 495-1995	Yes
	36	Sertraline	Greenstone/Pfizer	(800) 435-7095	Yes ^{*†‡}
	119			, ,	Yes ^{*†‡}
		Sertraline	Lupin	(410) 576-2000	
-	46	Simvastatin	Teva	(888) 838-2872	No [§]
_	58	Simvastatin	Accord Healthcare	(866) 941-7875	Yes
-	126 39	Simvastatin Simvastatin	Aurobindo Dr Roddy's	(732) 839-9400	Yes Yes
	6	Simvastatin	Dr Reddy's	(866) 733-3952	Yes Yes ^{*†‡}
			Lupin	(410) 576-2000	
-	100	Simvastatin	Zydus	(609) 275-5125	Yes ^T
	106	Simvastatin	NorthStar	(800) 206-7821	Yes ^{†‡}
7	8	Singulair	Merck	(800) 672-6372	No
76	-	Solodyn	Medicis	(602) 808-8800	Yes [†]
23	79	Spiriva	Boehringer Ingelheim	(203) 798-9988	Yes*
150	-	Stelara	Centocor	(610) 651-6000	Yes [⊤]
119	-	Strattera	Lilly	(317) 276-2000	Yes
42	128	Suboxone	Reckitt Benckiser	(804) 379-1090	Yes [†]
_	28	Sulfamethoxazole/ Trimethoprim	Amneal	(270) 629-2596	No
56	191	Symbicort	AstraZeneca	(302) 886-8800	No
82	-	Synagis	MedImmune	(877) 633-4411	Yes [‡]
92	15	Synthroid	Abbott Pharm	(800) 255-5162	Yes ^{*‡}
186	170	Synvisc-One	Genzyme	(617) 252-7500	No Yes [†]
100	178	Tamsulosin	Zydus	(609) 275-5125	Yes [†]
109	-	Tarceva	Genentech	(650) 225-1000	No Varit
173	_	Taxotere	Sanofi-Aventis	(908) 243-6000	Yes ^{†‡}
160	-	Temodar	Schering	(800) 526-4099	Yes ^{*†}
_	25	Tramadol	Amneal	(270) 629-2596	No

Table 1 (CONT.)

2011 Top 200 by sales rank ¹¹	2011 Top 200 by total prescriptions dispensed rank ¹¹	Drug	Manufacturer ^{12,13}	Phone number ¹³	2012 response
_	98	Tramadol	Teva	(888) 838-2872	No§
132	_	Travatan Z	Novartis Vision	(862) 778-8300	Yes ^{†‡}
ı	19	Trazodone	Teva	(888) 838-2872	No [§]
125	_	Treanda	Teva	(888) 838-2872	No§
-	140	Triamcinolone Acetonide	Perrigo	(800) 719-9260	No [§]
Ī	118	Triamterene/HCTZ	Mylan	(304) 599-2595	Yes
-	127	Triamterene/HCTZ	Sandoz	(609) 627-6000	Yes*†‡
40	104	Tricor	Abbott Pharm	(800) 255-5162	Yes [‡]
115	_	Trilipix	Abbott Pharm	(800) 255-5162	No [†]
_	184	Trinessa	Watson	(973) 355-8398	No
-	189	Tri-Sprintec	Teva	(888) 838-2872	No [§]
26	-	Truvada	Gilead Sciences	(800) 445-3235	Yes
174	_	Tysabri	Elan	(800) 859-8586	Yes*†‡
198	_	Valcyte	Roche Labs	(800) 526-0625	Yes*‡†
194	_	Vanocin	Viropharma	(610) 458-7300	Yes [†]
72	_	Varivax	Merck	(800) 672-6372	Yes*
90	_	Velcade	Millennium	(617) 679-7000	Yes [†]
83	75	Venlafaxine HCI ER	Teva	(888) 838-2872	No [§]
99	33	Ventolin HFA	GlaxoSmithKline	(888) 825-5249	Yes*‡
93	33	Vesicare	Astellas	(847) 317-8800	Yes [†]
	-			(, , ,	Yes*†‡
55	89	Viagra	Pfizer U.S.P.G.	(800) 533-4535	Yes **
144	-	Victoza 3-Pak	Novo Nordisk	(609) 987-5800	
197	-	Vidaza	Celgene	(888) 423-5436	Yes [†]
139	-	Viread	Gilead Sciences	(800) 445-3235	Yes
	64	Vitamin D	Teva	(888) 838-2872	No [§]
53	136	Vytorin	Merck/Schering-Plough	(800) 672-6372	Yes
41	94	Vyvanse	Shire US Inc.	(859) 669-8000	Yes*‡
_	35	Warfarin	Teva	(888) 838-2872	No [§]
	49	Warfarin	Taro	(800) 544-1449	Yes*
153	-	Welchol	Daiichi Sankyo	(973) 359-2600	Yes ^{*‡}
94	-	Xeloda	Roche Labs	(800) 526-0625	Yes ^{*‡†}
177	_	Xgeva	Amgen	(800) 772-6436	No
161	_	Xifaxan	Salix	(866) 669-7597	Yes
118	-	Xolair	Genentech	(650) 225-1000	No
131	_	Xopenex	Sunovion	(508) 481-6700	Yes [†]
181	-	Yervoy	Bristol-Myers Squibb	(609) 897-2000	Yes⁺†
192	-	Zemplar	Abbott Pharm	(800) 255-5162	No [†]
39	95	Zetia	Merck/Schering-Plough	(800) 672-6372	Yes
-	50	Zolpidem	Teva	(888) 838-2872	No [§]
-	197	Zolpidem	Qualitest	(256) 859-4011	Yes* ^{‡†}
-	97	Zolpidem	Torrent	(269) 544-2299	Yes [†]
91	-	Zometa	Novartis	(862) 778-8300	No
171	-	Zostavax	Merck	(800) 672-6372	Yes*
145	-	Zosyn	Pfizer U.S.P.G.	(800) 533-4535	Yes ^{*†‡}
16	195	Zyprexa	Lilly	(317) 276-2000	Yes [†]
187	-	Zyprexa Zydis	Lilly	(317) 276-2000	Yes [†]
85	_	Zyvox	Pfizer U.S.P.G.	(800) 533-4535	Yes*†‡

^{65 |} Zyvox | Pfizer U.S.P.G.

*Cannot guarantee final products are gluten-free.

†Unable to provide documentation or documentation never received after several attempts.

†Active ingredient is gluten-free, but final product is not tested.

*Declined to participate.

"Not gluten-free; it contains maize, which is not the gluten associated with celiac sprue.