

Supplementary Material for - How Many Drugs Are Catecholics, by Da-Peng Yang, Hong-Fang Ji, Guang-Yan Tang, Wei Ren, Hong-Yu Zhang*, Molecules, 2007, 12, 878-884

Table S1. Catecholics identified from CMC.

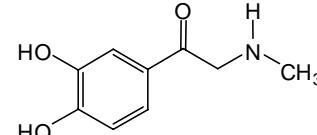
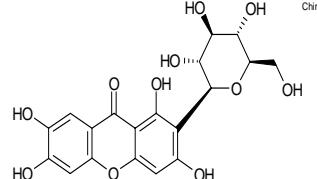
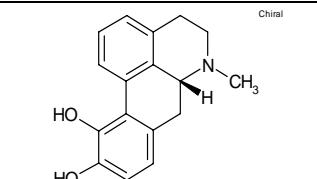
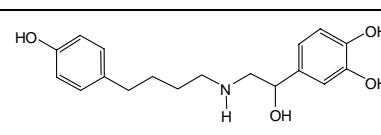
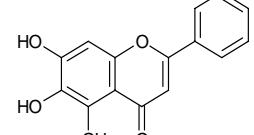
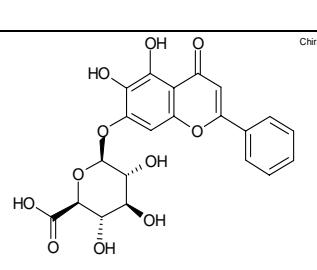
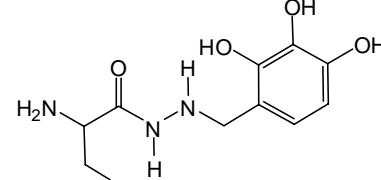
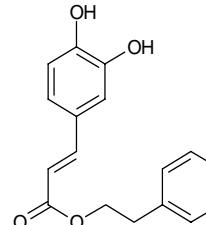
No	CMC Number	Name	Structure	Activity
1	MCMC00000595	adrenalone		adrenergic
2	MCMC00009836	aphloiol		antiviral; antiinflammatory
3	MCMC00000177	apomorphine		emetic
4	MCMC00006456	arbutamine		diagnostic aid; cardiotonic
5	MCMC00010715	baicalein		antioxidant; analgesic; antiallergic
6	MCMC00010411	baicalin		antiasthmatic; antiallergic
7	MCMC00000976	benserazide		enzyme inhibitor (decarboxylase)
8	MCMC00006778	caffeic acid phenethyl ester		antiviral; enzyme inhibitor

Table S1. Cont.

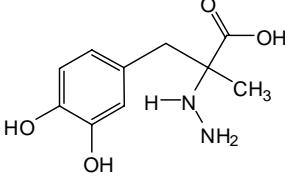
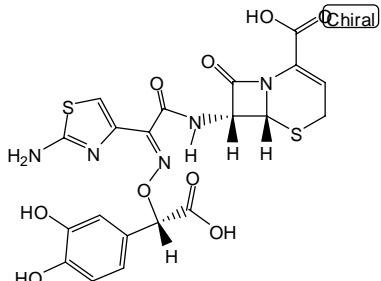
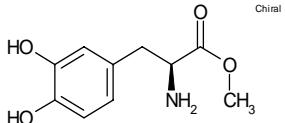
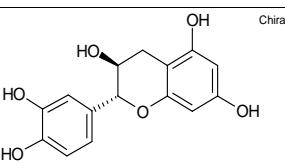
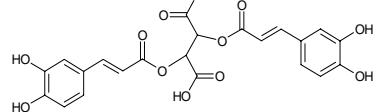
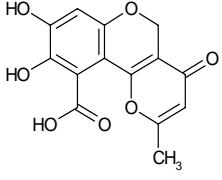
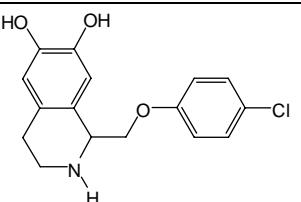
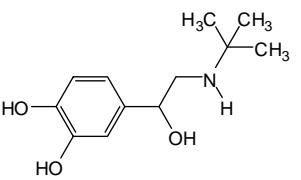
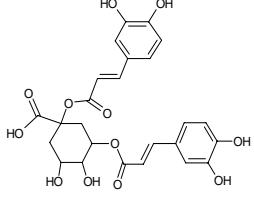
9	MCMC00010571	carbidopa		enzyme inhibitor (decarboxylase)
10	MCMC00006131	cefetecol		antibiotic; antibacterial
11	MCMC00010530	chf-1301		antiparkinsonian
12	MCMC00000898	cianidol		antiviral; antineoplastic
13	MCMC00007713	cichoric acid		phagocyte stimulant; antineoplastic
14	MCMC00009461	citromycetin		antibiotic
15	MCMC00004237	clofeverine		antispasmodic; anticholinergic
16	MCMC00003077	colterol		bronchodilator
17	MCMC00001729	cynarine		choleretic

Table S1. Cont.

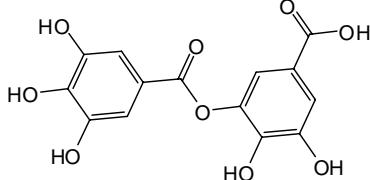
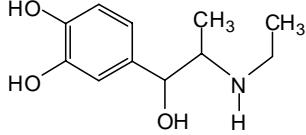
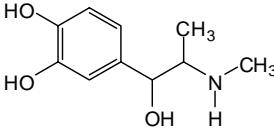
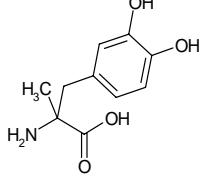
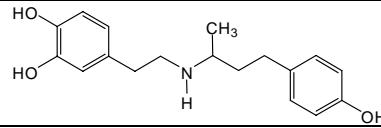
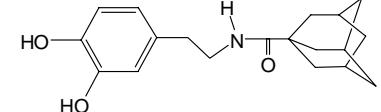
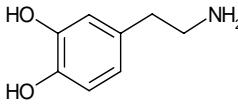
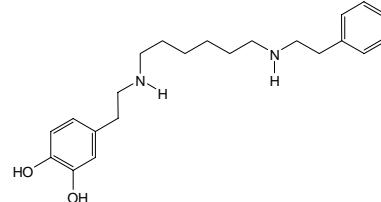
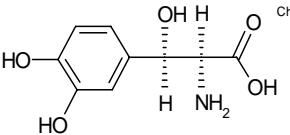
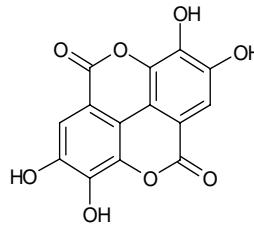
18	MCMC00006608	digalloyl trioleate		ultraviolet screen
19	MCMC00001167	dioxethedrin		antitussive; adrenergic
20	MCMC00002622	dioxifedrine		bronchodilator
21	MCMC00009077	dl-methyldopa		antihypertensive
22	MCMC00003673	dobutamine		cardiotonic
23	MCMC00003884	dopamantine		antiparkinsonian
24	MCMC00000060	dopamine		adrenergic
25	MCMC00005460	dopexamine		cardioprotective
26	MCMC00003277	droxidopa		antiparkinsonian
27	MCMC00001113	ellagic acid		hemostatic

Table S1. Cont.

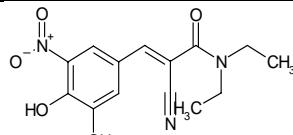
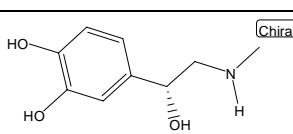
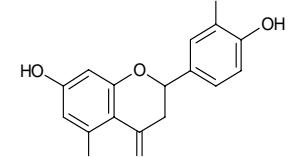
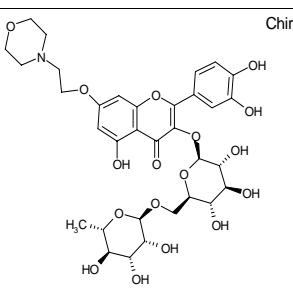
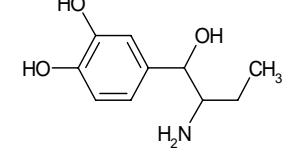
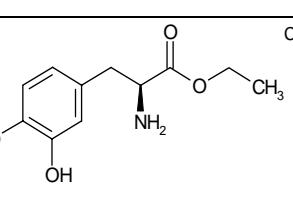
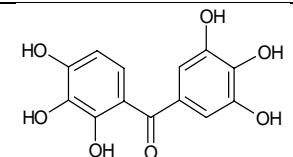
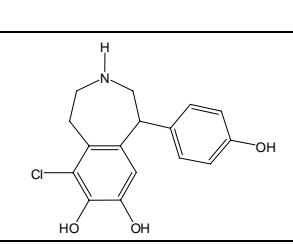
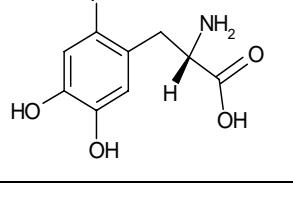
28	MCMC00006466	entacapone		enzyme inhibitor (catechol- <i>O</i> -methyltransferase); antiparkinsonian
29	MCMC00006922	epinephrine		bronchodilator; adrenergic
30	MCMC00007320	eriodictyol		bioflavanoid
31	MCMC00003555	ethoxazorutoside		antihemorrhagic
32	MCMC00001273	ethylnorepinephrine		bronchodilator
33	MCMC00010602	etilevodopa		antiparkinsonian
34	MCMC00004116	exifone		antiparkinsonian
35	MCMC00004827	fenoldopam		dopamine receptor antagonist; dopamine receptor agonist; antihypertensive
36	MCMC00007665	fluorodopa f 18		diagnostic aid (brain imaging); diagnostic aid

Table S1. Cont.

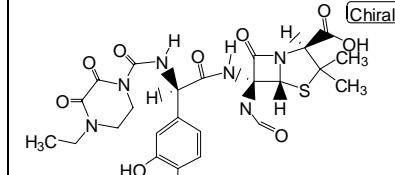
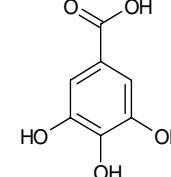
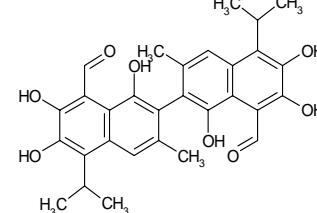
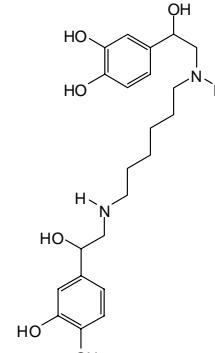
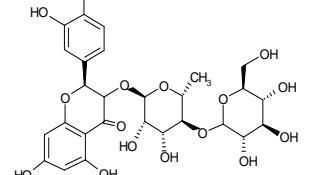
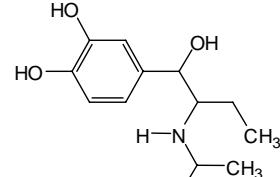
37	MCMC00002916	folescutol		capillary protectant
38	MCMC00005667	fomidacillin		antibiotic; antibacterial
39	MCMC00006710	gallic acid		astringent
40	MCMC00010223	gossypol		spermicide; insecticide; antimalarial; antioxidant
41	MCMC00001935	hexoprenaline		bronchodilator
42	MCMC00006852	huangqioside-e		sweetener
43	MCMC00001257	isoetharine		bronchodilator

Table S1. Cont.

44	MCMC00002560	isoproterenol		adrenergic
45	MCMC00001123	leucocianidol		capillary protectant
46	MCMC00006244	levdobutamine		cardiotonic
47	MCMC00000050	levisoprenaline		bronchodilator; antiasthmatic
48	MCMC00006962	levodopa		antiparkinsonian
49	MCMC00007083	levonordefrin		vasoconstrictor; adrenergic
50	MCMC00005851	masoprolol		antineoplastic
51	MCMC00004738	mecidianol		antispasmodic; anticholinergic
52	MCMC00007071	methyldopa		antihypertensive

Table S1. Cont.

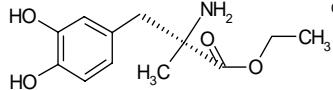
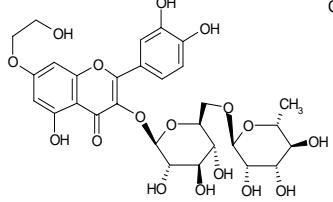
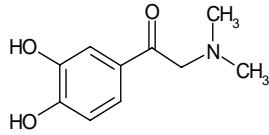
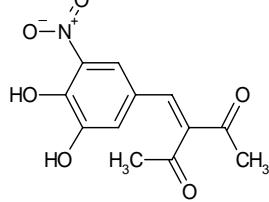
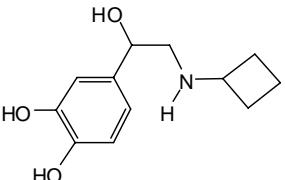
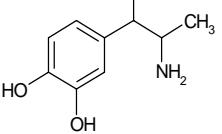
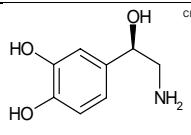
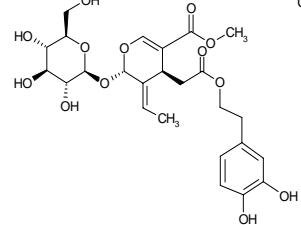
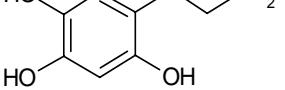
53	MCMC00001852	methyldopate	 Chiral	antihypertensive
54	MCMC00003289	monoxerutin	 Chiral	antidote
55	MCMC00002973	n-methyladrenalone		antineoplastic
56	MCMC00006082	nitecapone		antineoplastic
57	MCMC00002903	norbudrine		bronchodilator
58	MCMC00002427	nordefrin		vasoconstrictor
59	MCMC00000052	norepinephrine	 Chiral	adrenergic
60	MCMC00010143	oleuropein	 Chiral	coronary vasodilator; antispasmodic; antihypertensive
61	MCMC00001601	oxidopamine		adrenergic

Table S1. Cont.

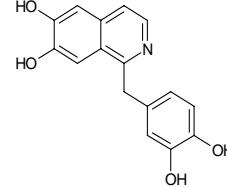
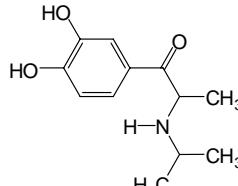
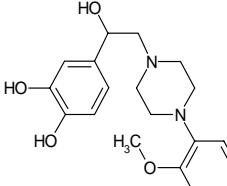
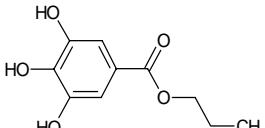
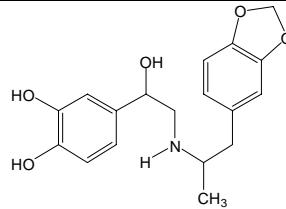
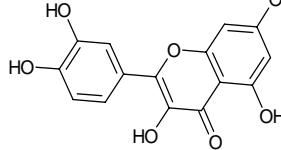
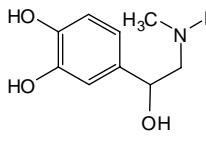
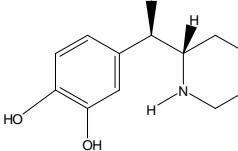
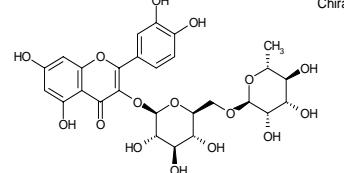
62	MCMC00001354	papaveroline		vascular disorders (therapeutic)
63	MCMC00003471	phenisonone		bronchodilator
64	MCMC00002868	piratecol		vasodilator
65	MCMC00000711	propyl gallate		antioxidant
66	MCMC00000809	protokylol		adrenergic
67	MCMC00009540	quercetin		antihemorrhagic
68	MCMC00005810	racepinephrine		bronchodilator
69	MCMC00003621	rimiterol		bronchodilator
70	MCMC00000892	rutin		capillary protectant

Table S1. Cont.

71	MCMC00007657	tetracyclic catechols1		enzyme inhibitor (cholesteryl ester transfer protein)
72	MCMC00007656	tetracyclic catechols2		enzyme inhibitor (cholesteryl ester transfer protein)
73	MCMC00002703	theodrenaline		CNS stimulant; antihypertensive
74	MCMC00006484	tolcapone		enzyme inhibitor (catechol-O-methyltransferase)
75	MCMC00003539	tretoquinol		bronchodilator; antiallergic
76	MCMC00010810	(r)-(+)-fenoldopam		Vasodilator; dopamine receptor agonist; antihypertensive
77	MCMC00010809	(r)-isoproterenol		antiasthmatic
78	MCMC00008199	1-(p-hydroxybenzyl)-6,7-dihydroxy-1,2,3,4-tetrahydroisoquin		enzyme inhibitor (dihydropteridine reductase enzyme)

Table S2. Catecholic drugs recorded in US FDA database.

Catecholic	Drug name (usage/strength)	Marketing status
apomorphine	(1) apokyn (injectable; subcutaneous/10MG/ML)	prescription
arbutamine	(1) genesa (injectable; injection/0.05MG/ML)	discontinued
carbidopa	(1) carbidopa and levodopa (tablet; oral/Multiple Strengths); (2) carbilev (tablet, for suspension; oral/10MG; 25MG; 100MG; 250MG); (3) lodosyn (tablet; oral/25MG); (4) parcopa (tablet, orally disintegrating; oral/10MG; 25MG; 100MG; 250MG); (5) sinemet (tablet; oral/10MG; 25MG; 100MG; 250MG); (6) sinemet cr (tablet, extended release; oral/25MG; 50MG; 100MG; 200MG); (7) stalevo 100 (tablet; oral/25MG; 200MG; 100MG); (8) stalevo 150 (tablet; oral/37.5MG; 200MG; 150MG); (9) stalevo 50 (tablet; oral/12.5MG; 200MG; 50MG)	discontinued prescription prescription prescription prescription prescription prescription prescription prescription
dobutamine	(1) dobutamine hydrochloride (injectable; injection/EQ 12.5MG BASE/ML; EQ 1.25GM BASE/100ML); (2) dobutamine hydrochloride in dextrose 5% (injectable; injection/EQ 50MG BASE/100ML; EQ 100MG BASE/100ML; EQ 200MG BASE/200ML); (3) dobutamine hydrochloride in dextrose 5% in plastic container (injectable; injection/Multiple Strengths); (4) dobutrex (injectable; injection/EQ 12.5MG BASE/ML)	prescription prescription prescription discontinued
dopamine	(1) dopamine hydrochloride (injectable; injection/Multiple Strengths); (2) dopamine hydrochloride and dextrose 5% (injectable; injection/40MG/100ML; 80MG/100ML; 160MG/100ML; 320MG/100ML); (3) dopamine hydrochloride and dextrose 5% in plastic container (injectable; injection/40MG/100ML; 80MG/100ML; 160MG/100ML; 320MG/100ML); (4) dopamine hydrochloride in dextrose 5% (injectable; injection/1.6MG/ML); (5) dopamine hydrochloride in dextrose 5% in plastic container (injectable; injection/Multiple Strengths); (6) intropin (injectable; injection/40MG/ML; 80MG/ML; 160MG/ML)	prescription prescription prescription discontinued prescription discontinued
entacapone	(1) comtan (tablet; oral/200MG); (2) stalevo 100 (tablet; oral/25MG; 200MG; 100MG); (3) stalevo 150 (tablet; oral/37.5MG; 200MG; 150MG); (4) stalevo 50 (tablet; oral/12.5MG; 200MG; 50MG)	prescription prescription prescription prescription
epinephrine	(1) alphacaine hydrochloride w/ epinephrine (injectable; injection/0.01MG/ML; 0.02MG/ML; 2%); (2) bronitin mist (aerosol, metered; inhalation/0.3MG/INH; 0.2MG/INH); (3) bronkaid mist (aerosol, metered; inhalation/0.25MG/INH); (4) bupivacaine hydrochloride and epinephrine (injectable; injection/0.005MG/ML; 0.0091MG/ML; 0.25%; 0.5%; 0.75%); (5) bupivacaine hydrochloride w/epinephrine (injectable; injection/0.0091MG/ML; 0.5%); (6) citanest forte (injectable; injection/0.005MG/ML; 4%); (7) duranest (injectable; injection/Multiple Strengths); (8) epi e z pen jr (injectable; intramuscular/0.15MG/DELIVERY; 0.3MG/DELIVERY); (9) epinephrine (aerosol, metered; inhalation/0.2MG/INH); (10) epipen (injectable; injection/0.15MG/DELIVERY; 0.3MG/DELIVERY); (11) epipen e z pen (injectable; intramuscular/0.15MG/DELIVERY; 0.3MG/DELIVERY); (12) epipen jr. (injectable; intramuscular/0.3MG/DELIVERY; 0.15MG/DELIVERY); (13) iontocaine (solution; intophoresis/0.01MG/ML; 2%)	discontinued over-the-counter discontinued prescription prescription prescription prescription discontinued discontinued over-the-counter prescription discontinued prescription discontinued prescription

Table S2. Cont.

	(14) lidocaine hydrochloride and epinephrine (solution; intophoresis; topical/Multiple Strengths); (15) lidocaine hydrochloride w/ epinephrine (injectable; injection/Multiple Strengths); (16) lidocaton (injectable; injection/0.02MG/ML; 0.01MG/ML; 2%); (17) lidosite topical system kit (patch; iontophoresis; topical/1.05MG/PATCH; 100MG/PATCH); (18) lignospan forte (injectable; injection/EQ 0.02MG BASE/ML; 2%); (19) lignospan standard (injectable; injection/EQ 0.01MG BASE/ML; 2%); (20) marcaine hydrochloride w/ epinephrine (injectable; injection/0.0091MG/ML; 0.25%; 0.5%; 0.75%); (21) marcaine hydrochloride w/ epinephrine preservative free (injectable; injection/0.0091MG/ML; 0.25%; 0.5%; 0.75%); (22) medihaler-epi (aerosol, metered; inhalation/0.3MG/INH); (23) octocaine (injectable; injection/0.01MG/ML; 0.02MG/ML; 2%); (24) pramatene mist (aerosol, metered; inhalation/0.3MG/INH; 0.2MG/INH); (25) procaine hydrochloride w/ epinephrine (injectable; injection/0.02MG/ML; 1%; 2%); (26) sensorcaine (injectable; injection/Multiple Strengths); (27) septocaine (injectable; injection/EQ 0.017MG BASE/1.7ML; EQ 0.01MG BASE/1.7ML; EQ 0.0085MG BASE/1.7ML; EQ 0.005MG BASE/1.7ML; 4%); (28) sus-phrine sulfite-free (injectable; injection/5MG/ML; 1.5MG/AMP); (29) twinject (injectable; im-sc/EQ 0.15MG/DELIVERY; EQ 0.3MG/DELIVERY); (30) twinject 0.3 (injectable; im-sc/EQ 0.15MG/DELIVERY; EQ 0.3MG/DELIVERY) (31) xylocaine w/ epinephrine (injectable; injection/Multiple Strengths)	prescription prescription prescription prescription prescription prescription prescription prescription discontinued prescription over-the-counter discontinued prescription prescription discontinued prescription prescription prescription
fenoldopam	(1) corlopam (injectable; injection/EQ 10MG BASE/ML); (2) fenoldopam mesylate (injectable; injection/EQ 10MG BASE/ML)	prescription prescription
isoetharine	(1) beta-2 (solution; inhalation/1%) (2) bronkometer (aerosol; metered; solution; inhalation/0.34MG/INH; 1%; 0.25%); (3) bronkosol (aerosol; metered; solution; inhalation/0.34MG/INH; 1%; 0.25%); (4) isoetharine hydrochloride (solution; inhalation/Multiple Strengths); (5) isoetharine hydrochloride s/f (solution; inhalation/1%; 0.08%; 0.17% 0.25%); (6) isoetharine mesylate (aerosol, metered; inhalation/0.34MG/INH)	prescription discontinued discontinued discontinued discontinued discontinued
isoproterenol	(1) aerolone (solution; inhalation/0.25%); (2) duo-medihaler (aerosol; metered; inhalation/0.16MG/INH; 0.24MG/INH); (3) isoproterenol hydrochloride (aerosol; metered; inhalation; injectable; injection; solution/0.12MG/INH; 0.02MG/ML; 0.2MG/ML; 0.5%; 0.25%); (4) isuprel (solution; inhalation; tablet; rectal; sublingual; injectable; injection; aerosol, metered/Multiple Strengths); (5) medihaler-iso (aerosol; metered; inhalation/0.12MG/INH; 0.08MG/INH); (6) mucomyst w/ isoprotereno (solution; inhalation/10%; 0.5%); (7) norisodrine (powder; inhalation/25%; 10%); (8) norisodrine aerotrol (disc; inhalation/0.25%); (9) vapo-iso (solution; inhalation/0.5%)	discontinued discontinued prescription prescription discontinued discontinued discontinued discontinued discontinued

Table S2. Cont.

levodopa	(1) bendopar (capsule; oral/250MG; 500MG; 100MG); (2) carbidopa and levodopa (tablet; oral; extended release/Multiple Strengths); (3) carbilev (tablet, for suspension; oral/10MG; 100MG; 25MG; 250MG); (4) dopar (capsule; oral; tablet/250MG; 500MG; 100MG); (5) larodopa (capsule; oral; tablet/250MG; 500MG; 100MG) (6) parcopa (tablet; orally disintegrating; oral/10MG; 100MG; 25MG; 250MG); (7) sinemet (tablet; oral/10MG; 100MG; 25MG; 250MG); (8)stalevo 100 (tablet; oral/25MG; 200MG; 100MG; 37.5MG; 150MG; 12.5MG; 50MG); (9) stalevo 150 (tablet; oral/25MG; 200MG; 100MG; 37.5MG; 150MG; 12.5MG; 50MG); (10) stalevo 50 (tablet; oral/25MG; 200MG; 100MG; 37.5MG; 150MG; 12.5MG; 50MG)	discontinued prescription prescription discontinued discontinued prescription prescription prescription prescription prescription prescription prescription
levonordefrin	(1) arestocaine hydrochloride w/ levonordefrin (injectable; injection/0.05MG/ML; 2%); (2) carbocaine w/ neo-cobefrin (injectable; injection/3%; 0.05MG/ML; 2%); (3) isocaine hydrochloride w/ levonordefrin (injectable; injection/0.05MG/ML; 2%); (4) mepivacaine hydrochloride w/ levonordefrin (injectable; injection/0.05MG/ML; 2%); (5) polocaine w/ levonordefrin (injectable; injection/0.05MG/ML; 2%); (6) ravocaine and novocain w/ neo-cobefrin (injectable; injection/EQ 0.033MG BASE/ML; 0.05MG/ML; 2%; 0.4%); (7) scandonest l (injectable; injection/0.05MG/ML; 2%)	discontinued prescription prescription prescription prescription discontinued prescription
masoprocol	(1) actinex (cream, topical/10%);	discontinued
methyldopa	(1) aldoclor-150 (tablet; oral/150MG; 250MG); (2) aldoclor-250 (tablet; oral/150MG; 250MG); (3) aldoril 15 (tablet; oral/15MG; 250MG; 30MG; 500MG); (4) aldoril 25 (tablet; oral/15MG; 250MG; 30MG; 500MG); (5) aldoril d30 (tablet; oral/15MG; 250MG; 30MG; 500MG; 50MG); (6) aldoril d50 (tablet; oral/15MG; 250MG; 30MG; 500MG; 50MG); (7) methyldopa (tablet; oral/Multiple Strengths); (8) methyldopa and chlorothiazide (tablet; oral/250MG; 150MG); (9) methyldopa and hydrochlorothiazide (tablet; oral/15MG; 250MG; 30MG; 500MG; 50MG);	discontinued discontinued discontinued discontinued discontinued discontinued discontinued prescription discontinued prescription
methyldopate	(1) aldomet (tablet; oral; injectable; injection; suspension/Multiple Strengths); (2) methyldopate hcl (injectable; injection/50MG/ML); (3) methyldopate hydrochloride (injectable; injection/50MG/ML)	discontinued discontinued prescription
norepinephrine	(1) levophed (injectable; injection/EQ 1MG BASE/ML); (2) norepinephrine bitartrate (injectable; injection/EQ 1MG BASE/ML); (3) ravocaine and novocain w/ levophed (injectable; injection/EQ 0.033MG BASE/ML; 0.05MG/ML; 2%; 0.4%)	prescription prescription discontinued
protokylol	(1) ventaire (tablet; oral/2MG)	discontinued
tolcapone	(1) tasmar (tablet; oral/100MG; 200MG)	prescription
(r)-(+)-fenoldopam	(1) corlopam (injectable; injection/EQ 10MG BASE/ML); (2) fenoldopam mesylate (injectable; injection/EQ 10MG BASE/ML)	prescription prescription