

**Supplementary Table 1: List of drugs excluded from analysis after screening (*n* = 248)**

<b>Ingredient</b>	<b>Generic Available</b>	<b>Not in US</b>
Beclometasone Dipropionate	X	
Fluticasone Propionate	X	
Budesonide	X	
Tiotropium Bromide	X	
Colecalciferol	X	
Metformin Hydrochloride	X	
Mesalazine	X	
Insulin Glargine	X	
Levothyroxine Sodium	X	
Co-Codamol (Codeine Phos/Paracetamol)	X	
Quetiapine	X	
Levetiracetam	X	
Salbutamol	X	
Atorvastatin	X	
Calcipotriol	X	
Buprenorphine	X	
Fentanyl	X	
Gabapentin	X	
Oxycodone Hydrochloride	X	
Omeprazole	X	
Paracetamol	X	
Ramipril	X	
Ezetimibe	X	
Amlodipine	X	
Macrogol 3350	X	
Pregabalin	X	
Nitrofurantoin	X	
Lamotrigine	X	
Fluticasone Furoate	X	
Morphine Sulfate	X	
Methylphenidate Hydrochloride	X	
Sumatriptan Succinate	X	
Pancreatin	X	
Sodium Valproate	X	
Melatonin	X	
Tamsulosin Hydrochloride	X	

Hydrocortisone	X	
Somatropin	X	
Latanoprost	X	
Lansoprazole	X	
Venlafaxine	X	
Olanzapine	X	
Alogliptin	X	
Amitriptyline Hydrochloride	X	
Naproxen	X	
Diltiazem Hydrochloride	X	
Tramadol Hydrochloride	X	
Propranolol Hydrochloride	X	
Perindopril Erbumine	X	
Liothyronine Sodium	X	
Estradiol with Progestogen	X	
Citalopram Hydrobromide	X	
Losartan Potassium	X	
Felodipine	X	
Simvastatin	X	
Lidocaine Hydrochloride	X	
Gliclazide		X
Bimatoprost	X	
Timolol & Bimatoprost		X
Combined Ethinylestradiol	X	
Tacrolimus	X	
Tadalafil	X	
Glycopyrronium Bromide	X	
Flucloxacillin Sodium		X
Rosuvastatin Calcium	X	
Isosorbide Mononitrate	X	
Enoxaparin	X	
Adrenaline	X	
Betamethasone Valerate	X	
Duloxetine Hydrochloride	X	
Ropinirole Hydrochloride	X	
Methotrexate	X	
Oxybutynin	X	
Vitamin B Compound	X	
Bisoprolol Fumarate	X	

Sertraline Hydrochloride	X	
Candesartan Cilexetil	X	
Carbimazole		X
Topiramate	X	
Salmeterol	X	
Estradiol	X	
Aspirin	X	
Chlorpromazine Hydrochloride	X	
Nifedipine	X	
Trimipramine Maleate	X	
Carbamazepine	X	
Desogestrel		X
Furosemide	X	
Doxazosin Mesilate	X	
Clopidogrel	X	
Buprenorphine Hydrochloride	X	
Carbocisteine		X
Mirtazapine	X	
Pramipexole	X	
Diclofenac Sodium	X	
Trazodone Hydrochloride	X	
Prednisolone	X	
Clonazepam	X	
Triptorelin Acetate		X
Ethosuximide	X	
Mefenamic Acid	X	
Ibuprofen	X	
Phenoxyethylpenicillin (Penicillin V)	X	
Fluoxetine Hydrochloride	X	
Tolterodine	X	
Allopurinol	X	
Ivabradine	X	
Lacosamide*		
Desmopressin Acetate	X	
Codeine Phosphate		X
Co-Careldopa (Carbidopa/Levodopa)	X	
Lercanidipine Hydrochloride		X
Levonorgestrel	X	
Mebeverine Hydrochloride		X

Ferrous Fumarate	X	
Methadone Hydrochloride	X	
Primidone	X	
Rizatriptan	X	
Alimemazine Tartrate		X
Docusate Sodium	X	
Nicotine	X	
Sodium Cromoglicate	X	
Ursodeoxycholic Acid	X	
Benzoyl Peroxide & Clindamycin Phosphate	X	
Rivastigmine	X	
Testosterone	X	
Fexofenadine Hydrochloride	X	
Irbesartan	X	
Esomeprazole	X	
Cyanocobalamin	X	
Zolmitriptan	X	
Lisinopril	X	
Tinzaparin Sodium		X
Dicycloverine Hydrochloride	X	
BeclometDiprop/Formoterol/Glycopyrronium		X
Indapamide	X	
Levodopa/Carbidopa/Entacapone	X	
Amoxicillin	X	
Warfarin Sodium	X	
Estriol		X
Ranitidine Hydrochloride	X	
Clobazam	X	
Alfacalcidol		X
Sodium Chloride	X	
Prochlorperazine Maleate	X	
Sulfasalazine	X	
Phenytoin Sodium	X	
Orlistat	X	
Lymecycline		X
Eplerenone	X	
Hyoscine		X
Dorzolamide & Timolol	X	
Risperidone	X	

Terbinafine Hydrochloride	X	
Fludrocortisone Acetate	X	
Lactulose	X	
Thiamine Hydrochloride	X	
Aripiprazole	X	
Atomoxetine Hydrochloride	X	
Colesevelam Hydrochloride	X	
Diazepam	X	
Ondansetron Hydrochloride	X	
Urea	X	
Midazolam Hydrochloride		
Senna	X	
Colistimethate Sodium	X	
Ferrous Sulfate	X	
Octreotide Acetate	X	
Loperamide Hydrochloride	X	
Mycophenolate Mofetil	X	
Aclidinium Brom/Formoterol		X
Galantamine	X	
Co-Dydramol (Dihydrocodeine/Paracet)		X
Betahistine Hydrochloride		X
Prednisolone Sodium Metasulphobenzoate		X
Terbutaline Sulphate	X	
Alfuzosin Hydrochloride	X	
Alprostadil	X	
Capsaicin	X	
Enalapril Maleate	X	
Folic Acid	X	
Ciclosporin	X	
Hydroxocobalamin	X	
Co-Beneldopa (Benserazide/Levodopa)		X
Dihydrocodeine Tartrate		X
Carmellose Sodium	X	
Prucalopride		X
Ispaghula Husk	X	
Memantine Hydrochloride	X	
Clobetasol Propionate	X	
Alendronic Acid	X	
Medroxyprogesterone Acetate	X	

Travoprost	X	
Haloperidol	X	
Bisacodyl	X	
Mercaptopurine	X	
Bendroflumethiazide		X
Atropine Sulfate	X	
Clarithromycin	X	
Multivitamin Preps	X	
Procyclidine Hydrochloride		X
Clotrimazole	X	
Amantadine Hydrochloride	X	
Doxepin	X	
Tranexamic Acid	X	
Timolol & Travoprost		X
Hydroxychloroquine Sulfate	X	
Pioglitazone Hydrochloride	X	
Cetirizine Hydrochloride	X	
Atenolol	X	
Clobetasone Butyrate		X
Azithromycin	X	
Fluorouracil	X	
Dexamethasone	X	
Montelukast	X	
Verapamil Hydrochloride	X	
Trospium Chloride	X	
Valsartan	X	
Quinine Sulfate	X	
Mometasone Furoate	X	
Nicorandil		X
Paroxetine Hydrochloride	X	
Midodrine Hydrochloride	X	
Sildenafil	X	
Spirolactone	X	
Lorazepam	X	
Digoxin	X	
Omega-3-Acid Ethyl Esters	X	
Zonisamide	X	
Glyceryl Trinitrate	X	
Febuxostat	X	

Formoterol Fumarate	X	
Ipratropium Bromide	X	
Etoricoxib		X
Dipyridamole	X	
Dexamfetamine Sulfate	X	
Hypromellose	X	
Adapalene & Benzoyl Peroxide	X	
Tranlycypromine Sulfate	X	
Brinzolamide	X	
Finasteride	X	
Tibolone		X
Flecainide Acetate	X	
Bicalutamide	X	
Co-Proxamol (Dextroprop HCl/Paracet)		X
Nefopam Hydrochloride		X
Erythromycin	X	
Bumetanide	X	

\*Note that lacosamide (Vimpat) was excluded from the analysis because multiple routes of administration were combined in the Medicare data, precluding accurate cost per unit comparisons.

**Supplementary Table 2: 2018 US spending, units, and prices for drugs included in analysis, by drug class**

Chemical Name	English Brand	US Brand	Total Adjusted US Spending <sup>a</sup>	Total US Units	Adjusted US Price Per Unit
<b>Non-Insulin Diabetes Medications</b>					
Sitagliptin	Januvia	Januvia	£1,354,373,883	226,815,826	£5.97
Linagliptin	Tradjenta	Tradjenta	£437,071,762	76,101,691	£5.74
Liraglutide	Victoza	Victoza	£704,514,958	18,002,527	£39.13
Dapagliflozin	Forxiga	Farxiga	£149,619,469	23,136,260	£6.47
Empagliflozin	Jardiance	Jardiance	£280,513,200	43,343,840	£6.47
Dulaglutide	Trulicity	Trulicity	£571,936,813	3,746,576	£152.66
Canagliflozin	Invokana	Invokana	£281,939,758	43,505,156	£6.48
Exenatide	Bydureon	Bydureon Pen	£113,859,286	1,636,500	£69.57
	Byetta	Byetta	£33,460,312	239,561	£139.67
Saxagliptin	Onglyza	Onglyza	£92,897,220	16,242,280	£5.72
Metformin/Sitagliptin	Janumet	Janumet	£290,300,430	97,354,713	£2.98
Lixisenatide	Lyxumia	Adlyxin	£26,596	636	£41.82
<b>Insulin Diabetes Medications</b>					
Insulin Aspart	Novorapid	Novolog	£291,196,882	24,316,865	£11.98
	Novorapid FlexPen	Novolog FlexPen	£718,742,335	47,016,576	£15.29
	Fiasp	Fiasp	£844,018	71,417	£11.82
	Fiasp Flextouch	Fiasp Flextouch	£2,289,235	147,932	£15.47
Biphasic Insulin Aspart	Novomix	Novolog Mix 70-30	£63,298,367	5,133,749	£12.33
	Novomix Pen	Novolog Mix 70-30 Flexpen	£195,907,939	12,858,197	£15.24
Insulin Detemir	Levemir	Levemir	£225,382,288	18,418,092	£12.24
	Levemir Flexpen	Levemir Flextouch	£663,928,772	54,941,914	£12.08
Biphasic Isophane Insulin	Humulin M3	Humulin 70-30	£72,104,202	12,929,074	£5.58
	Humulin M3 Kwikpen	Humulin 70/30 Kwikpen	£38,430,780	3,377,326	£11.38
Biphasic Insulin Lispro	Humalog Mix 50-50	Humalog Mix 50-50	£5,775,686	474,705	£12.17
	Humalog Mix 50-50 Kwikpen	Humalog Mix 50-50 Kwikpen	£11,741,648	788,934	£14.88
	Humalog Mix 75-25	Humalog Mix 75-25	£49,810,131	4,104,312	£12.14
	Humalog Mix 75-25 Kwikpen	Humalog Mix 75-25 Kwikpen	£131,909,274	8,847,802	£14.91
Isophane Insulin	Humulin I	Humulin N	£58,299,597	17,036,419	£5.58



	Humulin I Kwikpen	Humulin N Kwikpen	£22,114,020	2,787,155	£11.38
Insulin Degludec	Ins Tresiba Flextouch 100	Tresiba Flextouch U-100	£127,534,940	9,564,673	£13.33
	Ins Tresiba Flextouch 200	Tresiba Flextouch U-200	£263,946,744	9,910,356	£26.63
<b>Anticoagulants</b>					
Apixaban	Eliquis	Eliquis	£2,090,902,271	713,809,249	£2.93
Rivaroxaban	Xarelto	Xarelto	£1,407,201,753	240,480,958	£5.85
Ticagrelor	Brilique	Brilinta	£177,465,838	71,790,959	£2.48
Dabigatran	Pradaxa	Pradaxa	£267,044,444	106,147,690	£2.52
Edoxaban	Lixiana	Savaysa	£4,112,213	876,240	£4.69
Dalteparin	Fragmin	Fragmin	£2,308,236	32,853	£70.26
<b>Inhalers</b>					
Umeclidinium	Incruse Ellipta	Incruse Ellipta	£216,055,591	47,075,573	£4.59
Acclidinium	Eklira Genuair	Tudorza Pressair	£15,570,533	7,049,820	£2.21
Indacaterol/Glycopyrronium	Ultibro Breezhaler	Utibron Neohaler	£1,046,338	404,186	£2.59
Tiotropium/Olodaterol	Stiolto Respimat	Stiolto Respimat	£70,457,559	54,787,500	£1.29
Umeclidinium/Vilanterol	Anoro Ellipta	Anoro Ellipta	£278,908,852	99,404,830	£2.81
<b>Dopamine Agonists</b>					
Rotigotine	Neupro	Neupro	£37,012,923	4,060,093	£9.12
Apomorphine	APO-Go	Apokyn	£38,576,480	260,042	£148.35
<b>Antimuscarinic Agents</b>					
Solifenacin	Vesicare	Vesicare	£289,497,175	58,475,720	£4.95
Fesoterodine	Toviaz	Toviaz	£60,768,839	13,861,157	£4.38
<b>GnRH Analogues</b>					
Leuprorelin	Prostap	Lupron Depot	£29,110,228	19,664	£1,480.41
Goserelin	Zoladex	Zoladex	£423,670	759	£558.20
Triptorelin	Salvacyl/Decapetyl	Trelstar	£4,311,897	4,521	£953.75
<b>Other Agents</b>					
Perampanel	Fycompa	Fycompa	£13,859,651	1,414,352	£9.80
Mirabegron	Betmiga	Myrbetriq	£444,859,049	89,788,096	£4.95
Ranolazine	Ranexa	Ranexa	£275,778,743	95,010,411	£2.90
Varenicline	Champix	Chantix	£112,466,854	36,089,295	£3.12
Testosterone Undecanoate	Nebido	Aveed	£200,132	1,302	£153.71
Denosumab	Xgeva	Xgeva	£9,868,311	17,506	£563.72
	Prolia	Prolia	£127,523,156	258,089	£494.11

Etonogestrel	Nexplanon	Nexplanon	£73,338	189	£388.03
Rifaximin	Xifaxanta/Targaxan	Xifaxan	£266,863,141	17,427,398	£15.31
Sacubitril/Valsartan	Entresto	Entresto	£199,796,335	61,501,574	£3.25
Cinacalcet	Mimpara	Sensipar	£130,108,037	8,759,640	£14.85
Lisdexamfetamine	Elvance	Vyvanse	£29,904,521	7,102,317	£4.21
Tapentadol	Palexia	Nucynta	£21,550,211	7,276,750	£2.96
Dornase Alfa	Pulmozyme	Pulmozyme	£1,249,769	63,238	£19.76
Lanreotide	Somatuline Autogel	Somatuline Depot	£12,600,524	1,796	£7,017.44

<sup>a</sup>All US prices and spending are reported in 2018 British pounds and account for estimated US rebates and dispensing costs.