

Supplemental Online Content

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This supplemental material has been provided by the authors to give readers additional information about their work.

eTable. Study Sample: High Cost Generics, Therapeutic Classes, and Therapeutic Alternatives

High-Cost Generic	Therapeutic Class	Therapeutic Alternatives
Substitution: same drug, different manufacturer		
Anucort-HC 25mg Suppository	Antihemorrhoidal Agent; Corticosteroid, Rectal	Hydrocortisone Acetate suppository 25mg
Anucort-HC 25mg Suppository	Antihemorrhoidal Agent; Corticosteroid, Rectal	Hydrocortisone Acetate suppository 25mg
Substitution: same drug, different strength		
Bupropion HCl ER (XL) 450mg Extended release 24 hour tablet	Antidepressant, Dopamine/Norepinephrine-Reuptake Inhibitor, smoking cessation aid	Bupropion XL Extended release 24 hour tablet 150mg
Butalbital-APAP-Caffeine 50mg-300mg-40mg Capsule	Analgesic, Nonopioid; Barbiturate	Butalbital-APAP-caffeine tablet 50mg-325mg-40mg
Butalbital-APAP-Caffeine 50mg-300mg-40mg Capsule	Analgesic, Nonopioid; Barbiturate	Butalbital-APAP-caffeine tablet 50mg-325mg-40mg
Chlorzoxazone 250mg Tablet	Skeletal Muscle Relaxant	Chlorzoxazone tablet 500mg
Clindamycin Phosphate-Benzoyl Peroxide 1%-5% Gel	Antibiotic, Lincosamide; Topical Skin Product, Acne	Clindamycin Phosphate-Benzoyl Peroxide gel 1.2mg-5mg
Clindamycin Phosphate-Benzoyl Peroxide 1%-5% Gel	Antibiotic, Lincosamide; Topical Skin Product, Acne	Clindamycin Phosphate-Benzoyl Peroxide gel 1.2mg-5mg
Clindamycin Phosphate-Benzoyl Peroxide 1%-5% Gel	Antibiotic, Lincosamide; Topical Skin Product, Acne	Clindamycin Phosphate-Benzoyl

		Peroxide gel 1.2mg-5mg
Fenofibrate 120mg Tablet	Antilipemic Agent, Fibric Acid	Fenofibrate tablet 145mg
Fluorouracil 0.5mg Cream	Antineoplastic Agent, Antimetabolite (Pyrimidine Analog)	Fluorouracil cream 5%
Mesalamine 800mg Delayed release tablet	5-Aminosalicylic Acid Derivative	Mesalamine delayed-release tablet 1.2g
Prena1 Pearl 30mg-1.4mg-200mg Controlled release capsule	Prenatal multivitamins	Prenatal Multivitamin + DHA controlled release capsules 28mg-0.8mg-200mg
Substitution: same drug, different dosage form		
Zolpidem Tartrate ER 12.5mg Extended release tablet	Hypnotic, Miscellaneous	Zolpidem Tartrate tablet 10
Zolpidem Tartrate ER 12.5mg Extended release tablet	Hypnotic, Miscellaneous	Zolpidem Tartrate tablet 10
Venlafaxine HCl ER 225mg Extended release 24 hour tablet	Antidepressant, Serotonin/Norepinephrine Reuptake Inhibitor	Venlafaxine HCl ER 75mg Extended release 24 hour capsule
Venlafaxine HCl ER 225mg Extended release 24 hour tablet	Antidepressant, Serotonin/Norepinephrine Reuptake Inhibitor	Venlafaxine HCl ER 75mg Extended release 24 hour capsule
Venlafaxine HCl ER 225mg Extended release 24 hour tablet	Antidepressant, Serotonin/Norepinephrine Reuptake Inhibitor	Venlafaxine HCl ER 75mg Extended release 24 hour capsule
Venlafaxine HCl ER 225mg Extended release 24 hour tablet	Antidepressant, Serotonin/Norepinephrine Reuptake Inhibitor	Venlafaxine HCl ER 75mg Extended release 24 hour capsule

Venlafaxine HCl ER 75mg Extended release 24 hour tablet	Antidepressant, Serotonin/Norepinephrine Reuptake Inhibitor	Venlafaxine HCl ER 75mg Extended release 24 hour capsule
Norethindrone acetate- Ethinyl estradiol-Ferrous fumarate 1mg-20mg Chewable tablet	Contraceptive; Estrogen and Progestin Combination	Junel FE 1/20 tablet 1mg-20mg
Norethindrone acetate- Ethinyl estradiol-Ferrous fumarate 1mg-20mg Chewable tablet	Contraceptive; Estrogen and Progestin Combination	Junel FE 1/20 tablet 1mg-20mg
Mupirocin Calcium 2mg Cream	Antibiotic, Topical	Mupirocin ointment 2mg
Metformin HCl ER (Osmotic Release) 1000mg Extended release 24 hour tablet	Antidiabetic Agent, Biguanide	Metformin HCl ER extended release 24 hour tablet 500mg
Metformin HCl ER (Osmotic Release) 1000mg Extended release 24 hour tablet	Antidiabetic Agent, Biguanide	Metformin HCl ER extended release 24 hour tablet 500mg
Metformin HCl ER (Modified Release) 1000mg Extended release 24 hour tablet	Antidiabetic Agent, Biguanide	Metformin HCl ER extended release 24 hour tablet 500mg
Metformin HCl ER (Modified Release) 1000mg Extended release 24 hour tablet	Antidiabetic Agent, Biguanide	Metformin HCl ER extended release 24 hour tablet 500mg
Ketorolac Tromethamine 15.75mg Spray	Analgesic, Nonopioid; Nonsteroidal Anti-inflammatory Drug (NSAID)	Ketorolac Tromethamine solution 30mg
Doxycycline 40mg Capsule	Antibiotic, Tetracycline Derivative	Doxycycline Hyclate tablet 20mg
Doxycycline Hyclate 50mg Tablet	Antibiotic, Tetracycline Derivative	Doxycycline Hyclate tablet 50mg

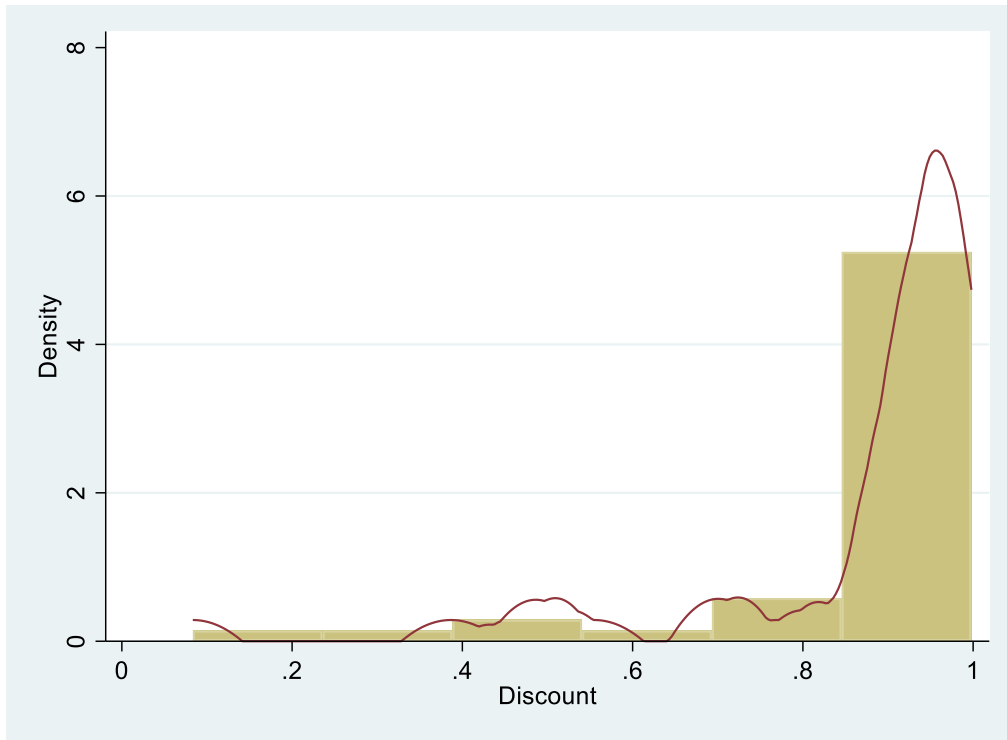
Doxycycline Hyclate 200mg Delayed release tablet	Antibiotic, Tetracycline Derivative	Doxycycline Hyclate tablet 100mg, Doxycycline Hyclate capsule 100mg
Substitution: different drug, same therapeutic class		
Dihydroergotamine Mesylate 4 mg/ml Nasal Solution	Antimigraine Agent; Ergot Derivative	Sumatriptan nasal solution 5mg/activation
Drospirenone-Ethinyl Estradiol-Levomefolate 3mg-0.02mg-0.451mg Tablet	Contraceptive; Estrogen and Progestin Combination	Drospirenone-Ethinyl Estradiol tablet 3mg- 0.02mg
Eletriptan Hydrobromide 40mg Tablet	Antimigraine Agent; Serotonin 5- HT _{1B, 1D} Receptor Agonist	Rizatriptan benzoate tablets 10mg, Naratriptan HCl tablets 2.5mg, Sumatriptan succinate tablets 50mg
Eletriptan Hydrobromide 40mg Tablet	Antimigraine Agent; Serotonin 5- HT _{1B, 1D} Receptor Agonist	Rizatriptan benzoate tablets 10mg, Naratriptan HCl tablets 2.5mg, Sumatriptan succinate tablets 50mg
Esomeprazole Magnesium 40mg Capsule, delayed release	Proton Pump inhibitor	Omeprazole delayed release capsule 40mg, Pantoprazole sodium extended release tablet 40mg
Fenoprofen Calcium 200mg Capsule	Analgesic, Nonopioid; Nonsteroidal Anti-inflammatory Drug (NSAID)	Diclofenac sodium extended release tablet 50mg, Ibuprofen tablet 600mg, Naproxen tablet 500mg, Meloxicam tablet 15mg

Frovatriptan Succinate 2.5mg Tablet	Antimigraine Agent; Serotonin 5-HT _{1B, 1D} Receptor Agonist	Naratriptan HCl tablet 2.5mg, Rizatriptan benzoate tablet 10mg, Sumatriptan succinate tablet 50mg
Frovatriptan Succinate 2.5mg Tablet	Antimigraine Agent; Serotonin 5-HT _{1B, 1D} Receptor Agonist	Naratriptan HCl tablet 2.5mg, Rizatriptan benzoate tablet 10mg, Sumatriptan succinate tablet 50mg
Frovatriptan Succinate 2.5mg Tablet	Antimigraine Agent; Serotonin 5-HT _{1B, 1D} Receptor Agonist	Naratriptan HCl tablet 2.5mg, Rizatriptan benzoate tablet 10mg, Sumatriptan succinate tablet 50mg
Levorphanol Tartrate 3mg Tablet	Analgesic, Opioid	Methadone HCl tablet 10mg, Morphine sulfate extended release tablet 30mg
Lidocaine-Tetracaine 7%-7% Cream	Analgesic, Topical; Local Anesthetic	Lidocaine ointment 5%
Metaxalone 800mg Tablet	Skeletal Muscle Relaxant	Methocarbamol tablet 500mg, Carisoprodol tablet 350mg, Chlorzoxazone tablet 500mg, Cyclobenzaprine HCl tablet 10mg

Omeprazole-Sodium Bicarbonate 40mg-1100mg Capsule	Proton Pump inhibitor	Omeprazole delayed release capsule 40mg
Tadalafil 20mg Tablet	Phosphodiesterase-5 Enzyme Inhibitor	Sildenafil Citrate tablet 100mg

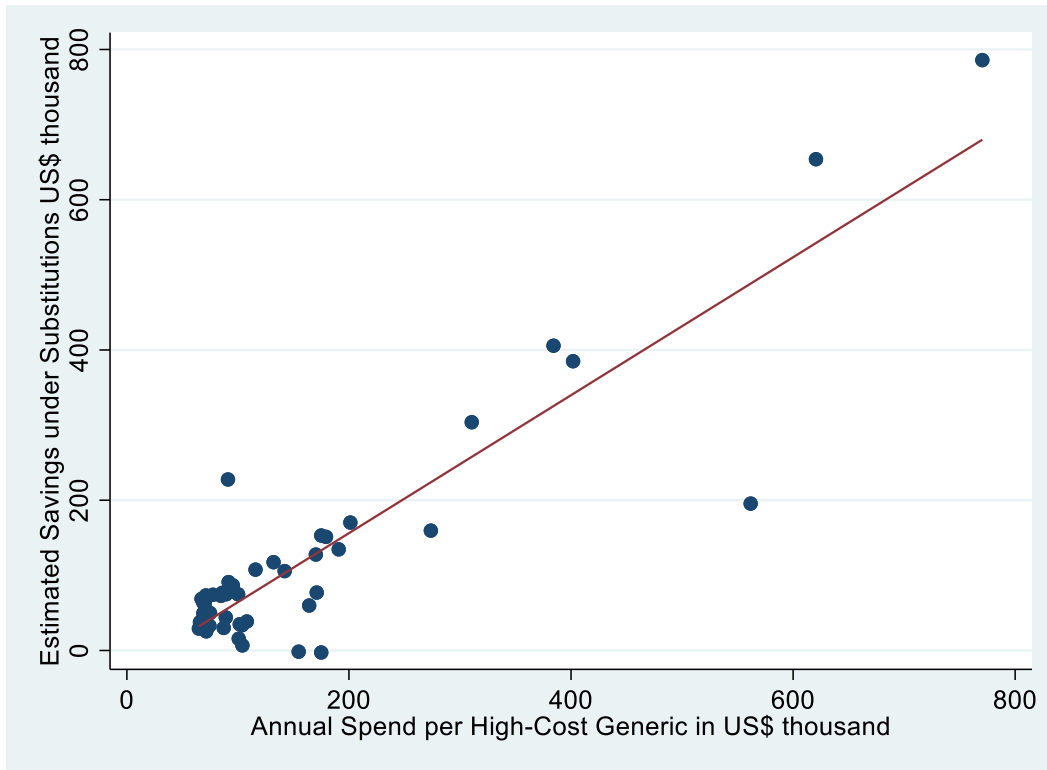
Source: Authors' analysis of Colorado All-Payer Claims Database (CO-APCD) 2019 data. The 45 high-cost generics identified in this table, together with their corresponding therapeutic alternatives constituted the study sample.

eFigure 1. Distribution of Drug Discounts Across the 45 Drug Pairs in the Study Sample



Source: Authors' analysis of Colorado All-Payer Claims Database (CO-APCD) 2019 data. Discounts were calculated as the difference between the price of the high cost generic and the average price of the therapeutic alternative(s) (adjusted for dosage requirements as needed), divided by the price of the high cost generic.

eFigure 2. Association Between Total Spending and Total Savings Levels Across the 45 Drug Pairs in the Study Sample



Source: Authors' analysis of Colorado All-Payer Claims Database (CO-APCD) 2019 data. Potential savings were calculated by applying the percentage discount offered by the therapeutic alternatives to the spending on the high-cost generic according to the CO-APCD, assuming that all patients using the high-cost generic would switch to the therapeutic alternative. When multiple therapeutic alternatives were identified for the same drug, we assumed that an equal proportion of people would switch to each alternative.