

Supplementary Material: When Cyclodextrins Met Data Science: Unveiling Their Pharmaceutical Applications through Network Science and Text-Mining

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Table S1. Commercially available CD-based formulations [1–11].

Trade name	Type of CD	API	Administration route/dosage form	Indication	Company
Janssen COVID-19 Vaccine	HP β CD	Ad26.COVS-2	Suspension for I.M. administration	Vaccine (COVID-19)	Janssen Biotech, Inc. (Horsham, Pennsylvania, USA)
Veklury	SBE β CD	Remdesivir	Lyophilized powder for I.V. solution	Antiviral (COVID-19)	Gilead Sciences, Inc. (Foster City, California, USA)
Trappsol Cyclo	HP β CD	Cyclodextrin	I.V. solution	Niemann-Pick Disease Type C	Cyclo Therapeutics, Inc. (Gainesville, Florida, USA)
Zulresso	SBE β CD	Brexanolone	I.V. solution	Postpartum depression	Sage Therapeutics, Inc. (Cambridge, Massachusetts, USA)
Baqsimi	β CD	Glucagon	Nasal powder	Severe hypoglycemia	Eli Lilly and Company (Indianapolis, Indiana, USA)
Voriconazole	HP β CD	Voriconazole	Lyophilized powder for I.V. solution	Broad spectrum antimycotic	Xellia Pharmaceuticals ApS (Copenhagen, Denmark)
Pazeo	HP γ CD	Olopatadine hydrochloride	Ocular solution	Allergic conjunctivitis	Alcon Research Ltd. (Geneva, Switzerland)
Pansporin T	α CD	Cefotiam hexetil hydrochloride	Oral tablet	Antibiotic	Takeda Pharmaceutical Co. (Osaka, Japan)
Brexin	β CD	Piroxicam	Oral tablet	Analgesic and anti-inflammatory	Chiesi Pharmaceuticals (Parma, Italy)
Opalmon	γ CD	Limaprost	Oral tablet	Burger's disease	Ono Pharmaceutical Co., Ltd. (Osaka, Japan)
Meiact	β CD	Cephalosporin	Oral tablet	Antibiotic	Meiji Seika Pharma Co., Ltd. (Tokyo, Japan)
Glymesason	β CD	Dexamethasone	Oral tablet, ointment	Analgesic and anti-inflammatory	Fujinaga Pharmaceutical Co., Ltd. (Tokyo, Japan)
Yaz	β CD	Ethinylestradiol and drospirenone	Oral tablet	Contraception	Bayer AG (Leverkusen, Germany)
Mobitil	β CD	Meloxicam	Oral tablet, rectal suppository	Non steroid anti-inflammatory	Medical Union Pharmaceuticals (Cairo, Egypt)
Surgamyl	β CD	Tiaprofenic acid	Oral tablet	Analgesic	Roussel-Maestrelli (Paris, France)
Cicladol	β CD	Piroxicam	Oral tablet, rectal suppository	Anti-inflammatory	Masterpharma (Parma, Italy)
Lonmiel	β CD	Benexate hydrochloride	Oral capsule	Gastric ulcer	Negase Medicals Co. (Itami, Japan)
Omebeta	β CD	Omeprazole	Oral tablet	Gastric ulcer	Betapharm (Augsburg, Germany)
Zyrtec	β CD	Cetirizine	Chewable tablet	Respiratory allergies	Losan Pharma GmbH (Neuenburg am Rhein, Germany)

Stada-Travel	β CD	Diphenhydramine and chlorothephyllyne	Chewable tablet	Travel sickness	Stada Arzneimittel AG (Bad Vilbel, Germany)
Nicorette	β CD	Nicotine	Sublingual tablet	Abstinence syndrome	Pharmacia Upjohn (Now owned by Pfizer Inc., NYC, New York, USA)
Nitrophen	β CD	Nitroglycerin	Sublingual tablet	Coronary dilatator	Nippon Kayaku Co. (Tokyo, Japan)
Prostarmon E	β CD	PGE ₂	Sublingual tablet	Labor induction	Ono Pharmaceutical Co., Ltd. (Osaka, Japan)
Mena-Gargle	β CD	Iodine	Oral solution (Gargling)	Throat disinfection	Kyushin pharmaceutical Co., Ltd. (Tokyo, Japan)
Sporanox	HP β CD	Itraconazole	Oral solution	Antimycotic	Janssen Pharmaceutica (Beerse, Belgium)
Flogene	β CD	Piroxicam	Oral solution	Analgesic and anti-inflammatory	Ache Laboratorios Farmaceuticos S.A. (São Paulo, Brasil)
Nimedex	β CD	Nimesulide	Oral sachet	Non steroid anti-inflammatory	Novartis International AG (Basel, Switzerland)
VFEND	SBE β CD	Voriconazole	I.V. solution	Antimycotic	Pfizer, Inc. (NYC, New York, USA)
Cardiotec	HP γ CD	Tc-99 and Teboroxime	I.V. solution	Radioactive imaging	Bracco Group (Milan, Italy)
Caverject Dual	α CD	Alprostadil	Intracavernosal injection	Erectile dysfunction	Pfizer, Inc. (NYC, New York, USA)
MitoExtra	HP β CD	Mitomycin	I.V. solution	Cancer	Novartis International AG (Basel, Switzerland)
Prostavasin	α CD	PGE ₁	Intra-arterial or I.V. solution	Chronic arterial occlusive disease	Ono Pharmaceutical Co., Ltd. (Osaka, Japan)
Edex	α CD	PGE ₁	Solution for Intracavernosal injection	Erectile dysfunction	Schwarz PharmaAG (Acquired by UCB pharma, Brussels, Belgium)
Zeldox, Geodon	SBE β CD	Ziprasidone	Oral capsule, I.M. solution	Schizophrenia	Pfizer, Inc. (NYC, New York, USA)
Lubion	HP β CD	Progesterone	I.M. solution or solution for subcutaneous injection	Infertility treatment	Hikma Pharmaceuticals (London, UK)
Indocid	HP β CD	Indomethacin	Ocular solution	Ocular inflammation and cystoid macular edema	Chauvin Pharmaceuticals Ltd. (London, UK)
Clorocil	RM β CD	Chloramphenicol	Ocular solution	Antibiotic	Oftalder (Lisboa, Portugal)
Voltaren Ophtha	HP γ CD	Diclofenac sodium salt	Ocular solution	Non steroid anti-inflammatory	Novartis International AG (Basel, Switzerland)
Aerodiol	RM β CD	17 β -Estradiol	Nasal spray	Hormone therapy	Servier Laboratories (Suresnes, France)
Coordinax	β CD	Cisapride	Rectal suppository	Gastrointestinal mobility stimulant	Janssen Pharmaceutica (Beerse, Belgium)
Acerap	β CD	Aceclofenac	Tablet	Osteoarthritis, muscular pain, gout, rheumatoid arthritis	Taj Pharma India (Mumbai, India)
Betahist	β CD	Betahistine	Tablet	Vertigo Ménière's syndrome	Geno Pharmaceuticals Pvt. Ltd. (Mapusa, India)
Transilium	β CD	Chlordiazepoxide	Tablet	Anxiety, neurosis, psychosis	Gador (Buenos aires, Argentina)
Cold Remedy Soothing	β CD	Chlorpheniramine maleate, acetaminophen	Tablet	Fever, allergies	Foshan Dezhong Pharmaceutical Co. Ltd. (Guangdong, China)

Natures Aid Vitamin D3	β CD	Cholecalciferol	Tablet	Vitamin D deficiency	Natures Aid (Preston, UK) Synthelabo Pharmaceuticals (Now Sanofi S.A., Paris, France)
Rynathisol	β CD	Dextromethorphan	Tablet	Cough	
Fluner	β CD	Flunarizine	Tablet	Migraine occlusive peripheral vascular disease	Geno Pharmaceuticals Pvt. Ltd. (Mapusa, India)
Entronor-TZ	β CD	Norfloxacin, tinidazole	Tablet	diarrhea, protozoal infections	Sydler (Mumbai, India)
Cycladol	β CD	Piroxicam	Tablet, suppository, oral powder	Osteoarthritis, rheumatoid arthritis, ankylosing spondylitis	Chiesi Pharmaceuticals (Parma, Italy)
Rofizgel	β CD	Rofecoxib	Tablet	Osteoarthritis, rheumatoid arthritis, ankylosing spondylitis	Wockhardt Ltd. (Mumbai, India)
Perindopril Erbumine	HP β CD	Perindopril tert-butylamine	Tablet	Hypertension, heart failure and cardiac events prevention	Sandoz Pharmaceuticals S.A. (Part of Novartis International AG, Basel Switzerland)

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