## Parkinson's disease drug therapies in the clinical trial pipeline: 2020

Supplement 1: Master list

	Therapy Classifications assigned in Pipeline Review						Active* Parkinson's disease drug trials in Phase 1, 2, 3 (n=145) trial data: ClinicalTrials.gov, as of January 21, 2020									
Table so		MT=disease-modifying there		therapy		*ClinicalTrial	s.gov "Status" = "Recruiting", "Not yet re			ing by invitation	on"	Estimated				
Agent	Therapeutic Purpose (DMT or ST)	Therapy Category	Repurposed, Reformulation or New Claim	"Approved For" if Repurposed	Phase	NCT Number (ClinicalTrials.gov ID)	Title	Sponsor/Collaborators	Estimated Enrollment	Start Date	Estimated Completion Date	Trial Duration (years)				
Donepezil	ST (Gait and balance)	Non-dopaminergic symptom relief	Repurposed	Alzheimer's disease	early Phase 1	NCT03599726	Improving Walking Automaticity in Parkinson's Disease: Levodopa or Donepezil	Oregon Health and Science University Medical Research Foundation, Oregon	20	Jul 2018	Jul 2019	1.0				
IPS-NSC cells	ST (Movement)	Cell therapy	Novel		early Phase 1	NCT03815071	A Study on the Treatment of Parkinson's Disease With Autologous Neural Stem Cells	Allife Medical Science and Technology Co., Ltd.   The First People's Hospital of Yunnan Province/First People's Hospital of Yunan Provinve New Kunhua Hospital   Henan Provincial Hospital   Beijing Hospital	10	Feb 2019	Feb 2021	1 2.0				
Methylphenidate & Atomoxetine	ST (Gait and balance)	Non-dopaminergic	Repurposed	ADHD	early Phase 1	NCT02879136	TAME-PD - Physical Therapy, Atomoxetine and, Methylphenidate, to Enhance Gait and Balance in Parkinson's Disease	Shnehal Patel The	42							
Atomoxetine	31 (Gait and balance)	symptom rener	repurposed	ADID	early rhase 1	NC102079130	SRC Inhibition as a Potential Target for	King's College London AstraZeneca King'		Det 2010	Dec 2020	4.0				
Saracatinib	ST (PD psychosis)	Kinase inhibitor	Novel		early Phase 1	NCT03661125	Parkinson's Disease Psychosis Brain Bioenergetics in Parkinson's	Trust	30	Apr 2019	Sep 2021	2.4				
UDCA (Ursodeoxycholic acid)	DMT	Energy and mitochondria	Repurposed	Gallstones & primary biliary cholangitis	Phase 1	NCT02967250	Disease and Response to Repeated Oral UDCA Treatment	University of Minnesota	20	Apr 2020	Mar 2022	2 1.9				
							AAV2-GDNF for Advanced Parkinson s									
AAV2-GDNF	DMT	Neurotrophic factors	Novel		Phase 1	NCT01621581	Disease GDNF Gene Therapy for Parkinson's	(CC) Brain Neurotherapy Bio,	25	May 2012	Feb 2022	9.7				
AAV2-GDNF	DMT	Neurotrophic factors	Novel		Phase 1	NCT04167540	Disease	Inc.	12	Dec 2019	Jun 2026	6.5				
ABBV-0805	DMT	Immunotherapy	Novel		Phase 1	NCT04127695	A Study to Evaluate the Safety and Tolerability of ABBV-0805 in Patients With Parkinson's Disease	AbbVie	32	Oct 2019	Jul 2021	1.7				
	DW1		Novel		T Huse I		A First-in-Human Study of Single and Multiple Doses of anle138b in Healthy	MODAG GmbH Quotient Sciences Aptuit (Verona)	32	0012013	3012021	1.7				
anle138b	DMT	Targeting aSN	Novel		Phase 1	NCT04208152	Subjects Staccato Apomorphine Multi-dose PK	Srl, an Evotec Company	92	Dec 2019	Oct 2020	0.8				
		Dopaminergic symptom					and PD in Patients With Parkinson's	Alexza Pharmaceuticals,								
Apomorphine (009-A)	ST (Movement)	relief	Reformulation		Phase 1	NCT04157933	Disease A Study to Evaluate Safety, Tolerability, Pharmacokinetics, and	Inc.	32	Oct 2019	Mar 2020	0.4				
							Pharmacodynamics of BIIB054 in Japanese Participants With									
BIIB054 (Cinpanemab)	DMT	Immunotherapy	Novel		Phase 1	NCT03716570	Parkinson's Disease A Study to Evaluate the Safety, Tolerability, and Pharmacokinetics of	Biogen	24	Mar 2019	Aug 2021	2.4				
BIIB094	DMT	Other	Novel		Phase 1	NCT03976349	BIIB094 in Adults With Parkinson's Disease	Biogen Ionis Pharmaceuticals, Inc.	62	Aug 2019	Jan 2022	2 2.4				
		Non-dopaminergic					Buspirone, in Combination With Amantadine, for the Treatment of	Oregon Health and Science University Portland VA								
Buspirone	ST (LID)	symptom relief	Repurposed	Anxiety disorders	Phase 1	NCT02589340	Levodopa-induced Dyskinesia	Medical Center	15	Jan 2016	Dec 2019	3.9				

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C/U\ATCAA	DAAT	Othor	Danis	DET imaging agent	Db 4	NCT02204020	Dose Escalation Study of Cu(II)ATSM in Parkinson's Disease	Collaborative Medicinal	20	A 2017	N= 2010	2.2
Cu(II)ATSM	DMT	Other	Repurposed	PET imaging agent	Phase 1	NCT03204929	Study to Evaluate DNL151 in Subjects	Development Pty Limited	38	Aug 2017	Nov 2019	2.3
DNL151	DMT	Kinase inhibitor	Novel		Phase 1	NCT04056689	With Parkinson's Disease	Denali Therapeutics Inc.	34	Jul 2019	Jun 2020	0.9
DIVETOT	DIVIT	Killase Illilibitoi	NOVEI	Neurogenic	riidae 1	140104030083	Effects of Midodrine and Droxidopa	Denail Therapeutics inc.	34	Jul 2013	Juli 2020	0.5
Droxidopa &		Non-dopaminergic		orthostatic			on Splanchnic Capacitance in	Vanderbilt University	ı l			
Midodrine	ST (nOH)	symptom relief	Repurposed	hypotension	Phase 1	NCT02897063	Autonomic Failure	Medical Center	34	Sep 2016	Aug 2021	4.9
· · · · · · · · · · · · · · · · · · ·	5. ()	Symptom rener	перигрозеи	пуроссия	i nase i	110102037003	A Study to Evaluate ENT-01 for the	Wedied Center	, <u> </u>	3CP 2010	riug zozz	113
							Treatment of Parkinson's Disease		i l			
ENT-01 (Kenterin)	ST (PD dementia)	Targeting aSN	Novel		Phase 1	NCT03938922	Dementia	Enterin Inc.	40	Jun 2019	Feb 2020	0.7
,	,						Effects of Exenatide on Motor	University of				
Exenatide	DMT	GLP-1 agonist	Repurposed	Type 2 diabetes	Phase 1	NCT03456687	Function and the Brain	Florida   NINDS	15	Jun 2018	Apr 2021	2.8
							Safety, Tolerability, and					
							Pharmacokinetics of Oral FB-101 in		i l			
FB-101	DMT	Kinase inhibitor	Novel		Phase 1	NCT04165837	Healthy Subjects	1ST Biotherapeutics, Inc.	48	Oct 2019	Jun 2020	0.7
									i			
							Binding of Foliglurax to Regions in the		ı l			
Foliglurax		Non-dopaminergic					Brain in Healthy Participants and in		ı l			
(PXT002331)	ST (Movement)	symptom relief	Novel		Phase 1	NCT04175132	Patients With Parkinson's Disease (PD)	H. Lundbeck A/S	17	Nov 2019	Mar 2020	0.3
			1					Vastra Gotaland	ı			
			1			1	Study Comparing Intravenous and	Region The Swedish	, l			
			1			1	Subcutaneous Infudopa With	Research Council   Dizlin	, l			
		Dopaminergic symptom					Intestinal Duodopa in Patients With	Medical Design	ı l			
Infudopa	ST (Movement)	relief	Reformulation		Phase 1	NCT03419806	Parkinson's Disease	AB   Gö teborg University	28	Feb 2018	Dec 2018	0.8
							A Study to Evaluate the Safety of		ı l			
							Neural Stem Cells in Patients With	Cyto Therapeutics Pty	i l			
ISC-hpNSC	ST (Movement)	Cell therapy	Novel		Phase 1	NCT02452723	Parkinson's Disease	Limited	12	Jul 2016	Jun 2020	3.9
							Lu AF82422 in Healthy Non-Japanese		i l			
							and Japanese Subjects and in Patients		i l			
Lu AF82422	DMT	Immunotherapy	Novel		Phase 1	NCT03611569	With Parkinson's Disease	H. Lundbeck A/S	44	Jul 2018	Jun 2020	1.9
		Dopaminergic symptom					A Study to Assess Pharmacokinetic		ı l			
LY03003	ST (Movement)	relief	Reformulation		Phase 1	NCT03733561	Profiles of LY03003 and Neupro	Luye Pharma Group Ltd.	40	Nov 2018	Apr 2019	0.5
							S		i l			
							Single Ascending Dose Study of	AstraZeneca Covance M	ا ما			
MEDI1341	DMT	Immunotherapy	Novel		Phase 1	NCT03272165	MEDI1341 in Healthy Volunteers	MS Holdings, Inc Catalent	48	Oct 2017	Nov 2020	3.1
							Umbilical Cord Derived Mesenchymal	Hebei Newtherapy Blo-	ı l			
Mesenchymal stem	21.47	Call the area.			DI 4	110702550402	Stem Cells Therapy in Parkinson's	Pharma technology Co.,		. 2010	5 2022	
cells	DMT	Cell therapy	Novel		Phase 1	NCT03550183	Disease  Comparative Controlled Study of	Ltd.	20	Jan 2018	Dec 2022	5.0
				Xenon approved as			Analgesic, Antiasthenic and Anti-		ı l			
	CT /Mayamant and			general anesthesia,			Anxiety Effects of Xenon in Patients		ı l			
NBTX-001	ST (Movement and NMS)	Other	Repurposed	but not NBTX-001	Phase 1	NCT04097080	With Parkinson's Disease	Nobilis Therapeutics Inc.	60	Nov 2019	Dec 2021	2.1
NB1X-001	INIVIS)	Dopaminergic symptom	Repui poseu	DUL HOL NBTX-001	riidse 1	14037080	Relative Bioavailability and	Nobilis Therapeutics IIIc.	00	NOV 2013	Dec 2021	2.1
Opicapone	ST (Movement)	relief	Reformulation		Phase 1	NCT03820037	Bioequivalence of Opicapone	Bial - Portela C S.A.	45	Mar 2019	Jun 2019	0.3
- Ficabolic	o. (ivioveillelle)							The University of Texas	43	14101 2013	Jun 2013	0.3
								Health Science Center,				
			1			1	Study of the Fecal Microbiome in	Houston Kelsey Research	, l			
PRIM-DJ2727	DMT	Microbiome/GIT	Novel		Phase 1	NCT03671785	Patients With Parkinson's Disease	Foundation	12	May 2019	Dec 2020	1.6
		-, -					Biomarker Assessments of Leukine		<del></del>	.,		
			1	Bone transplantation		1	During Treatment of Parkinson's		, l			
Sargramostim	DMT	Other	Repurposed	stimulator	Phase 1	NCT03790670	Disease	University of Nebraska	5	Jan 2019	Dec 2020	1.9
			· ·				A Study of Weekly Subcutaneous					
			1			1	Injections of SER-214 in Subjects With		, l			
			1			1	Parkinson's Disease (PD), to		, l			
							Determine the Safety, Tolerability and					
SER-214 (Rotigotine		Dopaminergic symptom	1			1	Pharmacokinetic (PK) Profile of SER-		, l			
polymer conjugate)	ST (Movement)	relief	Reformulation		Phase 1	NCT02579473	214	Serina Therapeutics	20	Jan 2016	Dec 2020	5.0
							TRANSEURO Open Label Transplant					
TRANSEURO (hfVM)	ST (Movement)	Cell therapy	Novel		Phase 1	NCT01898390	Study in Parkinson's Disease	University of Cambridge Lu	40	May 2012	Mar 2021	8.8
								United Neuroscience	, —			
			1			1		Ltd.   Centre for Human	, l			
i e	1	1	1	1	i		Study of UB-312 in Healthy	Drug Research,	i l			
										1		
							Participants and Parkinson's Disease	Netherlands   Worldwide Clinical Trials		Aug 2019		

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								Neurocrine				
								Biosciences   University of				
								California, San				
								Francisco   Veristat,				
								Inc.   Feinstein Institute for				
								Medical Research Oregon				
								Health and Science				
		Dopaminergic symptom					Safety Study of AADC Gene Therapy	University Voyager				
VY-AADC01	ST (Movement)	relief	Novel		Phase 1	NCT01973543	(VY-AADC01) for Parkinson's Disease	Therapeutics	15	Oct 2013	Dec 2019	6.2
							Safety and Efficacy Study of VY-	Neurocrine				
		Dopaminergic symptom					AADC01 for Advanced Parkinson's	Biosciences   Voyager				
VY-AADC01	ST (Movement)	relief	Novel		Phase 1	NCT03065192	Disease	Therapeutics	16	May 2017	Dec 2021	4.6
	,						Single Ascending Dose Study			,		
							Investigating the Safety, Tolerability,					
		Dopaminergic symptom					and PK of XC130-A10H in Healthy	Xoc				
VC120 A10H	CT (NA		NaI		Dhara 4	NCTO4043330	1		40	4 2010	I 2020	0.5
XC130-A10H	ST (Movement)	relief	Novel		Phase 1	NCT04043338	Adult Subjects	Pharmaceuticals   Celerion	40	Aug 2019	Jan 2020	0.5
Young Plasma							The Stanford Parkinson's Disease					
infusions	DMT	Other	Novel		Phase 1	NCT02968433	Plasma Study	Stanford University	15	Nov 2016	Dec 2019	3.1
]					ĺ		Safety of CDNF by Brain Infusion in					
CDNF (Cerebral							Patients With Parkinson's Disease.					
Dopamine							Extension to HP-CD-CL-2002 Clinical	Herantis Pharma				
Neurotrophic Factor)	DMT	Neurotrophic factors	Novel		Phase 1 Phase 2	NCT03775538	Study	Plc.   Renishaw plc.	15	Jul 2018	Jun 2020	2.0
							,	Nicolaas				
		Non-dopaminergic					Modulation of GABA-A Receptors in	Bohnen   NINDS   University				
Cl:+	CT (NA		D	A 4:1-1-4:-	Dh 1   Dh 2	NCTO2440442	· '		20	I 2010	N 2024	2.0
Clarithromycin	ST (Movement)	symptom relief	Repurposed	Antibiotic	Phase 1 Phase 2	NCT03440112	Parkinson Disease-Clarithromycin Arm	or Michigan	30	Jan 2018	Nov 2021	3.8
							Evaluation of Safety and Tolerability					
Fetal Mesencephalic							of Fetal Mesencephalic Dopamine					
Neuronal Precursor							Neuronal Precursor Cells for					
Cells	ST (Movement)	Cell therapy	Novel		Phase 1   Phase 2	NCT01860794	Parkinson's Disease	Bundang CHA Hospital	15	May 2013	Apr 2022	8.9
							A Study to Investigate a New					
		Dopaminergic symptom					Treatment in Patients With					
IPT803	ST (Movement)	relief	Novel		Phase 1 Phase 2	NCT03407378	Parkinson's Disease	Tools4Patient	110	Jun 2018	Feb 2020	1.6
	or (movement)		11010.		r nase z pr nase z	110103107370	Use of Mesenchymal Stem Cells		110	Jul. 2010	100 2020	1.0
							(MSCs) Differentiated Into Neural					
Masanshumal Stam							, ,					
Mesenchymal Stem							Stem Cells (NSCs) in People With					
Cells	DMT	cell therapy	Novel		Phase 1 Phase 2	NCT03684122	Parkinson's (PD).	University of Jordan	10	Jun 2018	Mar 2020	1.8
								Chinese Academy of				
							Safety and Efficacy Study of Human	Sciences   The First				
Neural Precursor Cell							ESC-derived Neural Precursor Cells in	Affiliated Hospital of				
transplantation	ST (Movement)	cell therapy	Novel		Phase 1   Phase 2	NCT03119636	the Treatment of Parkinson's Disease	Zhengzhou University	50	May 2017	Dec 2020	3.6
							Transplantation of Neural Stem Cell-			-		
Neural Stem Cell-							Derived Neurons for Parkinson's					
Derived Neurons	ST (Movement)	cell therapy	Novel		Phase 1 Phase 2	NCT03309514	Disease	NeuroGeneration	12	Jun 2020	nau	1.1
Devea recurons	J. (.vioveilleitt)	cen enerupy		1			Study of OXB-102 (AXO-Lenti-PD) in		12	3011 2020		1.1
OXB-102 (AXO-Lenti-		Donaminordia aumota			1			Avoyant Sciences				
	CT (2.4	Dopaminergic symptom	l		n 4101 -		Patients With Bilateral, Idiopathic	Axovant Sciences		0 . 20:2		40.
PD)	ST (Movement)	relief	Novel		Phase 1 Phase 2	NCT03720418	Parkinson's Disease	Ltd.   Oxford BioMedica	30	Oct 2018	Dec 2031	13.1
1			1		1		Phase 1/2a Clinical Trial of PR001A in					
							Patients With Parkinson's Disease					
											l	
							With at Least One GBA1 Mutation					
PR001A	DMT	GBA	Novel		Phase 1 Phase 2	NCT04127578		Prevail Therapeutics	16	Oct 2019	Aug 2026	6.8
PR001A	DMT	GBA  Dopaminergic symptom	Novel		Phase 1 Phase 2	NCT04127578	With at Least One GBA1 Mutation	Prevail Therapeutics Axovant Sciences	16	Oct 2019	Aug 2026	6.8
PR001A ProSavin	DMT ST (Movement)					NCT04127578 NCT01856439	With at Least One GBA1 Mutation (PROPEL)		16 15		_	
		Dopaminergic symptom	Novel		Phase 1   Phase 2		With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study	Axovant Sciences Ltd. Oxford BioMedica		Oct 2019 May 2011	Aug 2026 May 2022	
		Dopaminergic symptom					With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study	Axovant Sciences Ltd. Oxford BioMedica University of California,			_	
		Dopaminergic symptom					With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study	Axovant Sciences Ltd. Oxford BioMedica University of California, San Francisco Nova			_	
		Dopaminergic symptom					With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study	Axovant Sciences Ltd. Oxford BioMedica University of California, San Francisco Nova Southeastern			_	
		Dopaminergic symptom					With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study of ProSavin in Parkinson's Disease	Axovant Sciences Ltd.   Oxford BioMedica University of California, San Francisco   Nova Southeastern University   Gateway			_	
ProSavin	ST (Movement)	Dopaminergic symptom relief	Novel		Phase 1   Phase 2	NCT01856439	With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study of ProSavin in Parkinson's Disease  Microbiota Intervention to Change	Axovant Sciences Ltd.   Oxford BioMedica University of California, San Francisco   Nova Southeastern University   Gateway Institute for Brain	15	May 2011	May 2022	11.0
		Dopaminergic symptom		Antibiotic			With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study of ProSavin in Parkinson's Disease  Microbiota Intervention to Change the Response of Parkinson's Disease	Axovant Sciences Ltd.   Oxford BioMedica University of California, San Francisco   Nova Southeastern University   Gateway Institute for Brain Research			_	11.0
ProSavin	ST (Movement)	Dopaminergic symptom relief	Novel	Antibiotic	Phase 1   Phase 2	NCT01856439	With at Least One GBA1 Mutation (PROPEL) Long Term Safety and Efficacy Study of ProSavin in Parkinson's Disease  Microbiota Intervention to Change	Axovant Sciences Ltd.   Oxford BioMedica University of California, San Francisco   Nova Southeastern University   Gateway Institute for Brain	15	May 2011	May 2022	6.8

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1							Relative Bioavailability Study of					
1		Dopaminergic symptom					Ropinirole Implants in Parkinson's Patients on L-Dopa Switched From					
Ropinirole	ST (Movement)	relief	Reformulation		Phase 1 Phase 2	NCT03250117	Oral Ropinirole	Titan Pharmaceuticals	20	Oct 2017	Jul 2020	2.7
Nopilii ole	31 (Wovernenc)	rener	nerormalation		Thuse I   Thuse 2	140103230117	отаптории оте	Jordan Schultz   University		000 2017	301 2020	2.7
Terazosin	DMT	Other	Repurposed	Hypertension/BPH	Phase 1 Phase 2	NCT03905811	Terazosin for Parkinson's Disease	of Iowa	20	Sep 2019	Jan 2020	0.3
			perper	7,1			Study to Assess Pharmacokinetics of					
1							Accordion Pill Carbidopa-Levodopa					
1							Compared to Immediate Release					
1		Dopaminergic symptom					Carbidopa-Levodopa in Parkinson's					
Accordion Pill C-D	ST (Movement)	relief	Reformulation		Phase 2	NCT03576638	Disease Patients	Intec Pharma Ltd.	12	Jul 2018	Jan 2019	0.5
								Lawson Health Research				
ĺ								Institute Weston Brain				
ĺ								Institute   University of				
ĺ								Western Ontario,				
1							Ambroxol as a Treatment for	Canada   London Health				
Ambroxol	DMT	GBA	Repurposed	Respiratory diseases	Phase 2	NCT02914366	Parkinson's Disease Dementia	Sciences Centre	75	Nov 2015	Dec 2021	6.1
1								University College,				
ĺ							l	London Cure Parkinson's				
	51.47	CDA		Danaisata II	2	NOTODO CODO	Ambroxol in Disease Modification in	Trust   PRO.MED.CS Praha				
Ambroxol	DMT	GBA	Repurposed	Respiratory diseases	Phase 2	NCT02941822	Parkinson Disease	a.s - Czech Republic	20	Dec 2016	Apr 2018	1.3
1			1		1	1	ANIANEVA 72 Study in Dorkin!-	Anavex Life Sciences				
ANAVEX2-73	DMT	Other	Novel		Dhaca 2	NCTO27744FO	ANAVEX2-73 Study in Parkinson's Disease Dementia	Corp. Anavex Germany GmbH	120	Jul 2018	Jul 2020	2.1
Autologous	DIVIT	Other	Novel		Phase 2	NCT03774459	Disease Dementia	Belarusian Medical	120	Jul 2018	Jul 2020	2.1
Mesenchymal stem							Parkinson's Disease Therapy Using	Academy of Post-Graduate				
cells	DMT	Cell therapy	Novel		Phase 2	NCT04146519	Cell Technology	Education	12	Jul 2017	Dec 2019	2.5
cens	DIVIT	Сен спетару	NOVEI		1 11d3C 2	1401140313	cen recimology	Eddedtion	- 12	Jul 2017	Dec 2013	2.5
1							AV-101 (L-4-chlorokynurenine) in					
AV-101 (L-4-		Non-dopaminergic					Parkinson's Disease Subjects With	VistaGen Therapeutics,				
chlorokynurenine)	ST (LID)	symptom relief	Novel		Phase 2	NCT04147949	Levodopa-Induced Dyskinesia	Inc.	20	Dec 2020	Apr 2022	1.3
,		7, 1					,					
ĺ							Evaluating the Safety,					
1							Pharmacokinetics, and					
ĺ							Pharmacodynamics of BIIB054 in					
BIIB054 (Cinpanemab)	DMT	Immunotherapy	Novel		Phase 2	NCT03318523	Participants With Parkinson's Disease	Biogen	311	Jan 2018	Jun 2021	3.4
BoNT-A (Botulinum		Non-dopaminergic		Neurotoxin used for			Kinematic-guided BoNT-A Treatment	Western University,				
Toxin-A / Botox)	ST (Tremor)	symptom relief	Repurposed	pain management	Phase 2	NCT02427646	for ET and PD Tremor	Canada	54	Oct 2011	Jun 2020	8.7
BoNT-A (Botulinum		Non-dopaminergic		Neurotoxin used for			Kinematic-based BoNT-A Bilateral	Western University,				
Toxin-A / Botox)	ST (Tremor)	symptom relief	Repurposed	pain management	Phase 2	NCT02668497	Upper Limb PD Therapy	Canada	50	Mar 2016	Feb 2021	4.9
1												
ĺ		Non-dopaminergic					Evaluation of the Efficacy and Safety					
Bumetanide	ST (Movement)	symptom relief	Repurposed	Diuretic	Phase 2	NCT03899324	of Bumetanide in Parkinson's Disease		40	Apr 2019	Aug 2021	2.3
1								University of Colorado,				
1								Denver Colorado				
Commobidied (CDD)	CT (14	Non-dopaminergic		E 11	DI 3	110700500407	Cannabidiol on Motor Symptoms in	Department of Public	75	6 2040	. 2024	
Cannabidiol (CBD)	ST (Movement)	symptom relief	Repurposed	Epilepsy	Phase 2	NCT03582137	Parkinson's Disease	Health and Environment	75	Sep 2018	Jun 2021	2.7
1		Non donaminarais					Outcomes Mandate National	OMNI Modical Camicas				
Cannabis	ST (Pain)	Non-dopaminergic symptom relief	Repurposed	MS enacticity	Phase 2	NCT03944447	Integration With Cannabis as Medicine	OMNI Medical Services, LLC	100000	Dec 2018	Dec 2025	7.1
Cumabis	Ji (Falli)	Symptom rener	nepurposeu	MS spasticity	Phase 2	14010334444/	iviculation	LLC	100000	Dec 2018	DEC 2023	7.1
1			1		1	1		University Health Network,				
CanniMed (Cannabis		Non-dopaminergic	1		1	1	Cannabis Oil for Pain in Parkinson's	Toronto   Parkinson Society				
Oil)	ST (Pain)	symptom relief	Repurposed	Pain relief	Phase 2	NCT03639064	Disease	Canada	15	Dec 2018	Jul 2020	1.6
	- \	, , ,	3F = 1 F = 3000	1				Michele Tagliati,				2.0
1			1		1	1	Adrenergic Blockers for Cardiac	MD Cedars-Sinai Medical				
Carvedilol	DMT	Other	Repurposed	Hypertension	Phase 2	NCT03775096	Changes in Early Parkinson's Disease	Center	15	Apr 2019	Dec 2019	0.7
				1			Cardiac Changes in Early Parkinson's	Cedars-Sinai Medical				
Carvedilol	DMT	Other	Repurposed	Hypertension	Phase 2	NCT04218968	Disease: A Follow up Study	Center	15	Dec 2019	Dec 2022	3.0
		-	<del>, , , , , , , , , , , , , , , , , , , </del>	1	i e		To Assess the Efficacy and Safety of					
Carreanor							To Assess the Efficacy and Safety of			I I		
- Carveanor							Ceftriaxone in Patients With Mild to					
ed. Vedilor												

			T	Т	1	1	Ta. 1 6 21 111 250 6 11	T				
							Study of Clonidine Efficacy for the					
		Non-dopaminergic					Treatment of Impulse Control		1			
Clonidine	ST (ICD)	symptom relief	Repurposed	Hypertension	Phase 2	NCT03552068	Disorders in Parkinson's Disease:	Hospices Civils de Lyon	38	May 2019	May 2022	3.0
							31P-MRS Imaging to Assess the	Clene	1			
							Effects of CNM-Au8 on Impaired	Nanomedicine   University	1			
CNM_Au8 (Gold		Energy and					Neuronal Redox State in Parkinson's	of Texas Southwestern	1			
Nanocrystals)	DMT	mitochondria	Novel		Phase 2	NCT03815916	Disease	Medical Center	24	Jul 2019	Jul 2020	1.0
		dopaminergic symptom					A Study to Evaluate in Patients With	Chase Therapeutics	1			
CTC-413	ST (Movement)	relief	Reformulation		Phase 2	NCT03683225	Parkinsonian Type Disorders	Corporation	24	Apr 2019	Mar 2020	0.9
							Study of CVN424 in Parkinson's		1			
		Non-dopaminergic					Disease Patients With Motor		1			
CVN424	ST (Movement)	symptom relief	Novel		Phase 2	NCT04191577	Fluctuations	Cerevance Beta, Inc.	66	Dec 2019	Aug 2020	0.7
							A Phase 2 Study of CX-8998 in Adults		1			
		Non-dopaminergic					With Tremor Associated With		1			
CX-8998	ST (Tremor)	symptom relief	Novel		Phase 2	NCT03436953	Parkinson's Disease	Jazz Pharmaceuticals	60	Dec 2019	Dec 2020	1.0
							Safety and Efficacy of DA-9805 for		1			
DA-9805	DMT	Botanical	Novel		Phase 2	NCT03189563	Parkinson's Disease	Dong-A ST Co., Ltd.	60	Feb 2018	Mar 2019	1.1
							Conservative Iron Chelation as a	University Hospital,	1			
							Disease-modifying Strategy in	Lille   European	1			
Deferiprone	DMT	Antioxidant	Repurposed	Iron reduction	Phase 2	NCT02655315	Parkinson's Disease	Commission   ApoPharma	338	Feb 2016	Feb 2021	5.0
							Effect of Donepezil on Cognition in	1				
L					L		Parkinson's Disease With Mild	L				
Donepezil	DMT	Other	Repurposed	Alzheimer's disease	Phase 2	NCT02450786	Cognitive Impairment (PD-MCI)	Yonsei University	80	Jun 2015	Aug 2019	4.2
								l				
L		Non-dopaminergic			L		Safety and Efficacy of Droxidopa for	Loma Linda University H.				
Droxidopa	ST (Fatigue)	symptom relief	New Claim		Phase 2	NCT03446807	Fatigue in Patients With Parkinsonism		32	Jan 2020	Jan 2021	1.0
								St. Joseph's Hospital and	1			
							Effect of L-Dihydroxyphenylserine (L-	Medical Center,	1			
							DOPS) on Falls in Patients With	Phoenix H. Lundbeck	1			
		Non-dopaminergic					Neurogenic Orthostatic Hypotension	A/S Arizona State	1			
Droxidopa	ST (nOH)	symptom relief	New Claim		Phase 2	NCT03567447	(NOH)	University	10	Aug 2018	Mar 2020	1.5
							Effect of L-Dihydoxyphenylserine on	St. Joseph's Hospital and	1			
							Locomotion, Postural Stability, and	Medical Center,	1			
		Non-dopaminergic					Fall Risk Reduction in Parkinson	Phoenix Arizona State	1			
Droxidopa	ST (Gait and balance)	symptom relief	New Claim		Phase 2	NCT02812147	Disease	University, Tempe	20	May 2016	Jun 2019	3.1
							Orally Administered ENT-01 for		1			
							Parkinson's Disease-Related		1			
ENT-01 (Kenterin)	ST (Constipation)	Targeting aSN	Novel		Phase 2	NCT03781791	Constipation (KARMET)	Enterin Inc.	152	Dec 2018	Oct 2020	1.8
		Energy and					Safety and Biomarker Study of EPI-589		1			
EPI-589	DMT	mitochondria	Novel		Phase 2	NCT02462603	in Parkinson's Disease	Inc	44	Mar 2016	Dec 2019	3.8
							<u> </u>		1			
							Study to Evaluate the Efficacy, Safety		1			
							and Tolerability of PXT002331	1				
L		L					(Foliglurax) in Reducing Motor	1				
Foliglurax	CT /14	Non-dopaminergic					Complications of Levodopa Therapy in			,		
(PXT002331)	ST (Movement)	symptom relief	Novel		Phase 2	NCT03162874	Parkinson Disease's Patients	Prexton Therapeutics	165	Jul 2017	Oct 2019	2.2
		L					Study of Glycopyrrolate for Moderate-					
		Non-dopaminergic			L		to-severe Sialorrhea in Parkinson's	Ottawa Hospital Research				_
Glycopyrrolate	ST (Sialorrhea)	symptom relief	Repurposed	Peptic ulcers	Phase 2	NCT02382198	Disease	Institute	28	Jul 2016	Dec 2018	2.4
							A Study to Assess the Safety of	L.,				
							GRF6021 Infusions in Subjects With	Alkahest, Inc.   Michael J.				
					L		Parkinson's Disease and Cognitive	Fox Foundation for				
GRF6021	DMT	Other	Novel	ļ	Phase 2	NCT03713957	Impairment	Parkinson's Research	90	Nov 2018	Nov 2020	2.0
JM-010		Non-donesia :					A Study in Parkinson's Disease in	Contrar Dham 10 1				
(Buspirone/Zolmitript	CT (110)	Non-dopaminergic					paTients With mOderate to seveRe	Contera Pharma   Bukwang		, ,		
an)	ST (LID)	symptom relief	Novel		Phase 2	NCT03956979	dyskinesiA	Pharmaceutical	81	Jul 2019	Jun 2021	1.9
							PROSEEK: A Phase 2 Study In Early					
							Parkinson's Disease Patients	L				
							Evaluating The Safety And Efficacy Of					
		[			L		Abl Tyrosine Kinase Inhibition Using	Research Company				
K0706 (SCC – 138)	DMT	Kinase inhibitor	Novel		Phase 2	NCT03655236	K0706	Limited	504	Feb 2019	Feb 2021	2.0
							A Clinical Study of KDT-3594 in	L				
		Dopaminergic symptom			L		Patients With Early Parkinson's	Kissei Pharmaceutical Co.,				
KDT-3594	ST (Movement)	relief	Novel		Phase 2	NCT03845387	Disease.	Ltd.	100	Feb 2019	Jun 2020	1.3

	1	1	1	1			1	,				
							A Study of KW-6356 in Patients With					
							Parkinson's Disease on Treatment					
		Non-dopaminergic					With Levodopa-containing					
KW-6356	ST (Movement)	symptom relief	Novel		Phase 2	NCT03703570	Preparations	Kyowa Kirin Co., Ltd.	502	Sep 2018	May 2020	1.6
								Cedars-Sinai Medical				
								Center The Cure				
							Safety and Efficacy of Liraglutide in	Parkinson's Trust   Novo				
Liraglutide	DMT	GLP-1 agonist	Repurposed	Type 2 diabetes	Phase 2	NCT02953665	Parkinson's Disease	Nordisk A/S	57	Apr 2017	Dec 2020	3.7
								University Hospital,				
							Study to Evaluate the Effect of	Toulouse   Cure				
							Lixisenatide in Patient With	Parkinson   Ré seau NS-				
Lixisenatide	DMT	GLP-1 agonist	Repurposed	Type 2 diabetes	Phase 2	NCT03439943	Parkinson's Disease	Park EUCLID Sanofi	158	Jun 2018	Dec 2021	3.5
Lixiberiatiae		CE. Tugomist	перагрозеа	Type 2 diductes	1 11d3c 2	110103133313	T di tanison s biscase	T director   Sunon	150	Jun 2010	500 2021	5.5
							A Study of LY3154207 in Participants					
							With Dementia Due to Lewy Body					
							Dementia (LBD) Associated With					
		Dopaminergic symptom					Idiopathic Parkinson's Disease (PD) or					
LY3154207	ST (PD dementia)	relief	Novel		Phase 2	NCT03305809	Dementia With Lewy Bodies (DLB)	Eli Lilly and Company	340	Nov 2017	Jun 2020	2.6
				Diuretic and artificial			Safety, Tolerability and Effects of	Hadassah Medical				
Mannitol	DMT	Targeting aSN	Repurposed	sweetener	Phase 2	NCT03823638	Mannitol in Parkinson's Disease	Organization	60	Nov 2018	Dec 2020	2.1
								Istanbul Medipol				
]								University				
								Hospital   ScandiBio				
								Therapeutics AB Alanya				
								Alaaddin Keykubat				
				Multiple				University Sahlgrenska				
				supplements to			Metabolic Cofactor Supplementation	University Hospital,				
Metabolic Cofactor							* * *					
				enhance hepatic			in Alzheimer's Disease (AD) and	Sweden KTH Royal				
Supplementation	DMT	Other	Repurposed	oxidation	Phase 2	NCT04044131	Parkinson's Disease (PD) Patients	Institute of Technology	120	Sep 2019	Sep 2020	1.0
							A Clinical Study in Advanced					
							Parkinson's Disease Investigating the					
							Long Term Safety of ND0612					
		Dopaminergic symptom					Administered as a Continuous SC					
ND0612	ST (Movement)	relief	Reformulation		Phase 2	NCT02726386	Infusion	NeuroDerm Ltd.	210	May 2016	Aug 2021	5.3
NLY01 (pegylated							A Clinical Study of NLY01 in Patient's					
exenatide)	DMT	GLP-1 agonist	Novel		Phase 2	NCT04154072	With Early Parkinson's Disease	Neuraly, Inc.	240	Jan 2020	Apr 2021	1.2
							•	Aptinyx CogState			·	
		Non-dopaminergic					A Study to Evaluate NYX-458 in	Ltd.   Worldwide Clinical				
NYX-458	ST (PD MCI)	symptom relief	Novel		Phase 2	NCT04148391	Subjects With PD-MCI	Trials	135	Nov 2019	Jun 2021	1.6
N1X 450	or (i b ivici)	Symptom rener	IVOVCI		T Huse 2	140104140331	Subjects With 1 B Wich	University College,	155	1404 2013	Juli 2021	1.0
								London   MODEPHARMA				
								•				
								Limited   PARKINSONS				
								UK PRIMENT SEALED				
]		l						ENVELOPE Wasdell				
		Non-dopaminergic		Nausea and vomiting			Trial of Ondansetron as a Parkinson's	Packaging Ltd   Custom				
Ondansetron	ST (Hallucinations)	symptom relief	Repurposed	(antiemetic)	Phase 2	NCT04167813	HAllucinations Treatment	Pharmaceuticals Limited	216	Apr 2020	Apr 2023	3.0
							Study to Evaluate Safety and Daytime					
]							Sedation in Subjects With Parkinson's					
							Disease With Neuropsychiatric					
Ì		Non-dopaminergic					Symptoms Treated With Pimavanserin	ACADIA Pharmaceuticals				
Pimavanserin	ST (Neuropsychiatric)		New Claim		Phase 2	NCT04164758	or Low-Dose Quetiapine	Inc.	60	Oct 2019	Dec 2020	1.1
	- (mean opsychiatric)	-,ptorener	0.0.111	+			Randomized Placebo Controlled Trial		- 50	30.2013	2020	1.1
							Evaluating the Efficacy of					
							Pimavanserin, a Selective Serotonin 5-					
							HydroxyTryptamine-2A (5HT2A)					
		l					Inverse Agonist, to Treat Impulse	University Hospital,				
		Non-dopaminergic					Control Disorders in Parkinson's	Strasbourg, France   NS-				
Pimavanserin	ST (ICD)	symptom relief	New Claim		Phase 2	NCT03947216	Disease.	PARK EUCLID F-CRIN	130	Sep 2019	Jan 2022	2.3
							A Study to Evaluate the Efficacy of					
							Prasinezumab (RO7046015/PRX002)	Hoffmann-La				
Prasinezumab							in Participants With Early Parkinson's	Roche Prothena				
(RO7046015/PRX002)	DMT	Immunotherapy	Novel		Phase 2	NCT03100149	Disease	Biosciences Limited	316	Jun 2017	Feb 2021	3.6
	1			I.			1		310	Jul. 2017	2021	3.0

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							A Study to Assess the Safety and					
							Effectiveness of Pridopidine					
		l					Compared to Placebo in the					
		Non-dopaminergic					Treatment of Levodopa-Induced					
Pridopidine	ST (LID)	symptom relief	Novel		Phase 2	NCT03922711	Dyskinesia in Patients With	Prilenia	135	Mar 2019	Apr 2020	1.0
							Image Parkinson's Disease Progression					
Rasagiline	DMT	Other	New Claim		Phase 2	NCT02789020	Study	Florida NINDS	116	Dec 2016	Dec 2020	4.0
							Resistant Maltodextrin for Gut	Northwestern				
							Microbiome in Parkinson's Disease:	University   University of				
Resistant maltodextrin	ST (NMS)	Microbiome/GIT	Repurposed	Constipation	Phase 2	NCT03667404	Safety and Tolerability Study	Illinois at Chicago	30	Nov 2018	Jun 2020	1.6
Semaglutide	DMT	GLP-1 agonist	Repurposed	Type 2 diabetes	Phase 2	NCT03659682	GLP1R in Parkinson's Disease	Oslo University Hospital	120	Jan 2019	Dec 2024	6.0
							A Study to Evaluate the Efficacy,					
							Safety and Tolerability of SEP-363856					
		Non-dopaminergic					in Subjects With Parkinson's Disease					
SEP-363856	ST (PD psychosis)	symptom relief	Novel		Phase 2	NCT02969369	Psychosis	Sunovion	36	Dec 2016	May 2020	3.3
								University Hospital				
							Simvastatin as a Neuroprotective	Plymouth NHS				
							Treatment for Moderate Parkinson's	Trust University of				
Simvastatin	DMT	Other	Repurposed	Hypercholesterolemia	Phase 2	NCT02787590	Disease	Plymouth	235	Mar 2016	May 2020	4.1
							Effect of SQJZ Herbal Mixtures on Non					
							motor Symptoms of Parkinson's	Dongzhimen Hospital,				
SQJZ herbal mixtures	ST (NMS)	Botanical	Novel		Phase 2	NCT02616120	Disease	Beijing	240	Dec 2015	Dec 2019	4.0
DQD HEIDAI HIIXEATES	5. (5)	Dotamean			111000 2	110102010120	Safety and Efficacy of THN102 in	Denjim <u>g</u>	2.0	Bcc 2015	200 2013	
THN102		Non-dopaminergic		Sleepiness/anti-			Patients With Parkinson's Disease and					
(modafinil/flecainide)	ST (Slooningss)	symptom relief	Repurposed	arrhythmic	Phase 2	NCT03624920	Excessive Daytime Sleepiness	Theranexus	71	Jul 2018	Feb 2020	1.6
(modalilii) flecallide)	31 (Sieepiness)	symptom rener	Repui poseu	arritytiillit	riidse Z	NC103024920	Excessive Daytime Sleepiness	Sheffield Teaching	/1	Jul 2018	Feb 2020	1.0
								Hospitals NHS Foundation				
								Trust JP Moulton				
								Charitable				
								Foundation   PRO.MED.CS				
								Praha a.s.   Clinical Trials				
UDCA		Energy and		Gallstones & primary			for Parkinson's Disease: The "UP"	Research Unit, University				
(Ursodeoxycholic acid)	DMT	mitochondria	Repurposed	biliary cholangitis	Phase 2	NCT03840005	Study	of Sheffield	30	Dec 2018	Sep 2020	1.7
							A Global Study to Assess the Drug					
							Dynamics, Efficacy, and Safety of					
							GZ/SAR402671 in Parkinson's Disease					
							Patients Carrying a					
Venglustat							Glucocerebrosidase (GBA) Gene	Genzyme, a Sanofi				
(GZ/SAR402671)	DMT	GBA	Novel		Phase 2	NCT02906020	Mutation	Company Sanofi	270	Dec 2016	Feb 2023	6.1
								Neurocrine				
		Dopaminergic symptom					VY-AADC02 for Parkinson's Disease	Biosciences   Voyager				
VY-AADC02	ST (Movement)	relief	Novel		Phase 2	NCT03562494	With Motor Fluctuations	Therapeutics	42	Jun 2018	Dec 2020	2.4
							A Study to Determine the Dose of			j		
				1			WIN-1001X by Evaluating Efficacy and					
				1			Safety in Early Parkinson's Disease					
WIN-1001X	DMT	Botanical	Novel	1	Phase 2	NCT04220762	Patients	Medi Help Line	188	Jan 2020	Dec 2020	0.9
								Aston				
				1				University   University				
		Non-dopaminergic		1			Use of Low-dose Zolpidem in	Hospital Birmingham NHS				
Zolpidem	ST (Movement)	symptom relief	Repurposed	Sleep	Phase 2	NCT03621046	Parkinson's Disease	Foundation Trust	28	Aug 2018	Jan 2020	1.4
	3. (Movement)	-,p.co rener	перагрозса		asc 2			. III.IIIIII II III	20	Aug 2018	3011 2020	1.4
								University of British				
Ecologic BARRIER849				1			Treating Anxiety in Parkinson's	Columbia The W. Garfield				
(Probiotic)	ST (Anxiety)	Microbiome/GIT	Repurposed	Promotes gut health	Phase 21Phase 2	NICTO30E0122	Disease With a Multiâ€Strain Probiotic	· ·	72	Sep 2019	Dec 2020	1 2
(F FODIOLIC)	or (Milkiety)	wiicrobiolile/GIT	nepurposeu	r romotes gut nealth	rilase 4   Pilase 3	INC 103700133	Fecal Microbiota Transplantation As a	vveston rounddlion	12	3ep 2019	Dec 2020	1.3
Facal astanabial				1			·	Canada Hairranita NA 11 1				
Fecal microbial			L	1	DI 2/51 -		Potential Treatment for Parkinson's	Soroka University Medical				
transplantation	DMT	Microbiome/GIT	Novel	1	Phase 2   Phase 3	NCT03876327	Disease	Center	100	Aug 2015	Dec 2019	4.4
				1			Clinical Trial to Evaluate the Safety					
l		1	1				and Tolerability of Hydrogen in					
Hydrogen	DMT	Antioxidant	Novel	1	Phase 2   Phase 3	NCT03971617	Patients With Parkinson's Disease	Stony Brook University	70	May 2019	Jul 2022	3.1

		1			1	1	1	1				
							A Study of Efficacy and Safety of	Second Affiliated Hospital,				
							Idebenone vs. Placebo in Prodromal	School of Medicine,				
Idebenone	DMT	Other	Repurposed	Alzheimer's	Phase 2   Phase 3	NCT04152655	Parkinson Disease	Zhejiang University	180	Jan 2020	Jan 2023	3.0
							Effects of PR Oxycodone and of	.,				
							Levodopa, vs Placebo, on Central					
PR Oxycodone &		Non-dopaminergic					Neuropathic Pain in Parkinson's	University Hospital,				
Levodopa	ST (Pain)	symptom relief	Repurposed	Pain relief	Phase 2   Phase 3	NCT02601586	Disease	Toulouse	84	Sep 2016	Sep 2021	5.0
							A Study to Evaluate the Safety and					
		Dopaminergic symptom					Tolerability of ABBV-951 in Subjects					
ABBV-951	ST (Movement)	relief	Novel		Phase 3	NCT03781167	With Parkinson's Disease (PD)	AbbVie	130	Apr 2019	Mar 2021	1.8
							A Study to Assess the Safety and					
		Dii					Efficacy of the of the Gastric-retentive					
Accordion Pill	CT (8.4	Dopaminergic symptom relief			Dh 2	NCTO2COF 42.4	AP-CD/LD in Advanced Parkinson's Patients	Intec Pharma Ltd.	420	NA 2016	D 2010	2.0
ACCORDION PIII	ST (Movement)	reliei	Reformulation		Phase 3	NCT02605434	Clinical Effect of Ampreloxetine (TD-	intec Pharma Ltu.	420	Mar 2016	Dec 2019	3.8
Ampreloxetine (TD-		Non-dopaminergic					9855) for Treating snOH in Subjects					
9855)	ST (nOH)	symptom relief	Novel		Phase 3	NCT03750552	With Primary Autonomic Failure	Theravance Biopharma	188	Jan 2019	Sep 2020	1.6
	. ()						Clinical Effect Durability of				400	
							Ampreloxetine (TD-9855) for Treating					
Ampreloxetine (TD-		Non-dopaminergic					snOH in Subjects With Primary					
9855)	ST (nOH)	symptom relief	Novel		Phase 3	NCT03829657	Autonomic Failure	Theravance Biopharma	258	Feb 2019	Feb 2021	1.9
							Extension Study of Ampreloxetine (TD	-				
Ampreloxetine (TD-		Non-dopaminergic					9855) for Treating snOH in Subjects					
9855)	ST (nOH)	symptom relief	Novel		Phase 3	NCT04095793	With Primary Autonomic Failure	Theravance Biopharma	80	Sep 2019	Mar 2025	5.5
							An Open-Label Phase 3 Study to					
							Examine the Long-Term Safety,					
APL-130277							Tolerability and Efficacy of APL-					
(Sublingual		Dopaminergic symptom					130277 for the Acute Treatment of "OFF" Episodes in Patients With					
apomorphine)	ST (Movement)	relief	Reformulation		Phase 3	NCT02542696	Parkinson's Disease	Sunovion	226	Aug 2015	Mar 2023	7.5
apomorphine)	31 (Wovernent)	rener	Reformulation		rilase s	NC102342030	A Study of an Investigational Drug to	Juliovion	220	Aug 2013	IVIAI 2023	7.5
							See How it Affects the People With					
							Parkinson's Disease Complicated by					
							Motor Fluctuations ("OFF" Episodes)					
							Compared to an Approved Drug Used					
APL-130277							to Treat People With Parkinson's					
(Sublingual		Dopaminergic symptom					Disease Complicated by Motor					
apomorphine)	ST (Movement)	relief	Reformulation		Phase 3	NCT03391882	Fluctuations ("OFF" Episodes)	Sunovion	106	Dec 2018	Oct 2020	1.8
		Dopaminergic symptom					Apomorphine Pump in Early Stage of					
Apomorphine (pump)	ST (Movement)	relief	Reformulation		Phase 3	NCT02864004	Parkinson's Disease (EARLY-PUMP)	Rennes University Hospital	192	Mar 2017	Sep 2024	7.5
Apomorphine												
(subcutaneous	CT (8.4	Dopaminergic symptom	Deference letier		Dh 2	NCTO22200C4	Infusion of Apomorphine: Long-term	11C M	00	F-1- 2015	C 2024	
infusion)	ST (Movement)	relief	Reformulation		Phase 3	NCT02339064	Safety Study Buspirone Treatment of latrogenic	US WorldMeds LLC	99	Feb 2015	Sep 2021	6.6
		Non-dopaminergic					Dyskinesias in Advanced Parkinson's	Assistance Publique -				
Buspirone	ST (LID)	symptom relief	Repurposed	Anti-anxiety	Phase 3	NCT02617017	Disease	Hopitaux de Paris	100	Jun 2016	Jun 2018	2.0
buspirone	31 (110)	symptom rener	перигрозеи	Arter drixicely	Thase 5	140102017017	A Study to Examine the Effect of	Hopitaux ac i ans	100	3411 2010	3011 2010	2.0
							Levodopa-Carbidopa Intestinal Gel					
							(LCIG) Therapy Relative to That of					
							Optimized Medical Treatment (OMT)					
							on Non-motor Symptoms (NMS)					
Duodopa (ABT-		Dopaminergic symptom					Associated With Advanced					
SLV187)	ST (NMS)	relief	New Claim		Phase 3	NCT02549092	Parkinson's Disease (PD)	AbbVie	89	Sep 2015	May 2020	4.7
							Exenatide Once Weekly Over 2 Years					
L		1		L	1	l	as a Potential Disease Modifying					
Exenatide	DMT	GLP-1 agonist	Repurposed	Type 2 diabetes	Phase 3	NCT04232969	Treatment for Parkinson's Disease	University College, London	200	Jan 2020	Sep 2023	3.7
		1			1	1	Open Label Extension (OLE) Study of					
		Donominorgio surt			1	1	the Safety and Clinical Utility of					
IDV202	ST (Moyomant)	Dopaminergic symptom relief	Reformulation		Dhace 2	NCT03877510	IPX203 in PD Patients With Motor	Impay Laboratories IIC	300	Apr 2010	Mar 2021	2.0
IPX203	ST (Movement)	rener	nerormulation		Phase 3	INC10291/210	Fluctuations	Impax Laboratories, LLC	300	Apr 2019	ividi 2021	2.0

							A Study to Evaluate the Safety and					
							Efficacy of IPX203 in Parkinson's					
		Dopaminergic symptom					Disease Patients With Motor					
IPX203	ST (Movement)	relief	Reformulation		Phase 3	NCT03670953	Fluctuations	Impax Laboratories, LLC	510	Nov 2018	Jul 2020	1.7
							Open Label Continuation Treatment	AbbVie (prior sponsor,				
Levodopa-carbidopa		Dopaminergic symptom					Study With Levodopa-Carbidopa	Abbott) Quintiles,				
intestinal gel	ST (Movement)	relief	Reformulation		Phase 3	NCT00660673	Intestinal Gel in Advanced PD	Inc. AbbVie	262	Nov 2009	Nov 2020	11.0
							Effects of Lingzhi on Disease					
				Adjunct to cancer			Progression in Patients With					
Lingzhi (Ganoderma)	DMT	Botanical	Repurposed	treatment	Phase 3	NCT03594656	Untreated Early Parkinson's Disease	Xuanwu Hospital, Beijing	288	Jul 2018	Dec 2020	2.5
							Inhibition of α-synuclein Cell-cell					
							Transmission by NMDAR Blocker,					
Memantine	DMT	Targeting aSN	Repurposed	Alzheimer's	Phase 3	NCT03858270	Memantine	Wayne State University	50	Mar 2019	Jun 2023	4.3
		Non-dopaminergic		Nausea and vomiting			Nabilone for Non-motor Symptoms in	Medical University				
Nabilone	ST (NMS)	symptom relief	Repurposed	(antiemetic)	Phase 3	NCT03773796	Parkinson's Disease	Innsbruck	48	Aug 2018	Dec 2020	2.3
Nabilone	31 (141413)	symptom rener	Repui poseu	Paracetamol/	rilase 3	NC103773730	Study of the Efficacy of N-	IIIIISBIUCK	40	Aug 2016	Dec 2020	2.3
N. acatulaustaina		Non-dopaminergic					acetylcysteine (NAC) on Impulse	Centre Hospitalier				
N-acetylcysteine (NAC)	ST (ICD)	symptom relief	Danumacad	acetaminophen overdose	Phase 3	NCT03146130	Control Disorders	Universitaire, Amiens	70	Jul 2018	Dec 2019	1.5
(IVAC)	31 (ICD)	symptom reliei	Repurposed	overdose	Pilase 3	NC103146130	A Clinical Trial Investigating the	Oniversitaire, Annens	70	Jul 2016	Dec 2019	1.5
							Efficacy, Safety and Tolerability of					
							Continuous Subcutaneous ND0612					
							Infusion in Comparison to Oral IR-					
		D					LD/CD in Subjects With Parkinson's					
1100012		Dopaminergic symptom					Disease Experiencing Motor					
ND0612	ST (Movement)	relief	Reformulation		Phase 3	NCT04006210	Fluctuations (BouNDless).	NeuroDerm Ltd.	300	Aug 2019	Apr 2021	1.7
								University College,				
								London London North				
								West Healthcare NHS				
								Trust King's College				
								London   University				
Nortriptyline &	CT (D : )	Non-dopaminergic			DI 2	110702052070	Antidepressants Trial in Parkinson's	Hospital Plymouth NHS	400			2.4
Escitalopram	ST (Depression)	symptom relief	Repurposed	Depression	Phase 3	NCT03652870	Disease	Trust   NHS Lothian	408	Nov 2019	Dec 2022	3.1
		Dopaminergic symptom					A Phase 3 Study With P2B001 in					
P2B001	ST (Movement)	relief	Reformulation		Phase 3	NCT03329508	Subjects With Early Parkinson's	Pharma Two B Ltd.	525	Jan 2018	Sep 2020	2.7
								University of Bristol Royal				
		Non-dopaminergic					CHIEF PD (CHolinesterase Inhibitor to	United Hospitals Bath NHS				
Rivastigmine	ST (Gait and balance)	symptom relief	Repurposed	Alzheimer's	Phase 3	NCT04226248	prEvent Falls in Parkinson's Disease)	Foundation Trust	600	Jan 2020	Nov 2022	2.9
							A Study to Evaluate the Efficacy and					
							Safety of Safinamide, as add-on					
							Therapy, in Idiopathic Chinese					
							Parkinson's Disease (PD) Patients With					
		Dopaminergic symptom					Motor Fluctuations Treated With					
Safinamide	ST (Movement)	relief	New Claim		Phase 3	NCT03881371	Stable Doses of Levodopa	Zambon SpA	306	Aug 2019	Dec 2020	1.3
	1	Dopaminergic symptom					Safinamide for Levodopa-induced					
Safinamide	ST (LID)	relief	New Claim		Phase 3	NCT03987750	Dyskinesia (PD-LID)	Zambon SpA	300	Oct 2019	May 2021	1.6
							Behavioral or Solifenacin Therapy for					
		Non-dopaminergic					Urinary Symptoms in Parkinson	VA Office of Research and				
Solifenacin	ST (Urinary)	symptom relief	Reformulation		Phase 3	NCT03149809	Disease	Development	90	Mar 2018	Dec 2021	3.8
Tavapadon (PF-	1	Dopaminergic symptom		1			Fixed-Dose Trial in Early Parkinson's			İ		
06649751)	ST (Movement)	relief	Novel		Phase 3	NCT04201093	Disease (PD)	Cerevel Therapeutics, LLC	522	Dec 2019	Oct 2022	2.9
Tavapadon (PF-	1	Dopaminergic symptom					Flexible-Dose Trial in Early Parkinson's					
06649751)	ST (Movement)	relief	Novel		Phase 3	NCT04223193	Disease (PD)	Cerevel Therapeutics, LLC	296	Jan 2020	Nov 2022	2.9
Symptom Abbreviation		•	•		•		•	•				

ICD = Impulse control disorders; LID = Levodopa-induced dyskinesia; MCI = Mild cognitive impairment; NMS = Non-motor symptoms; nOH = Neurogenic orthostatic hypotension