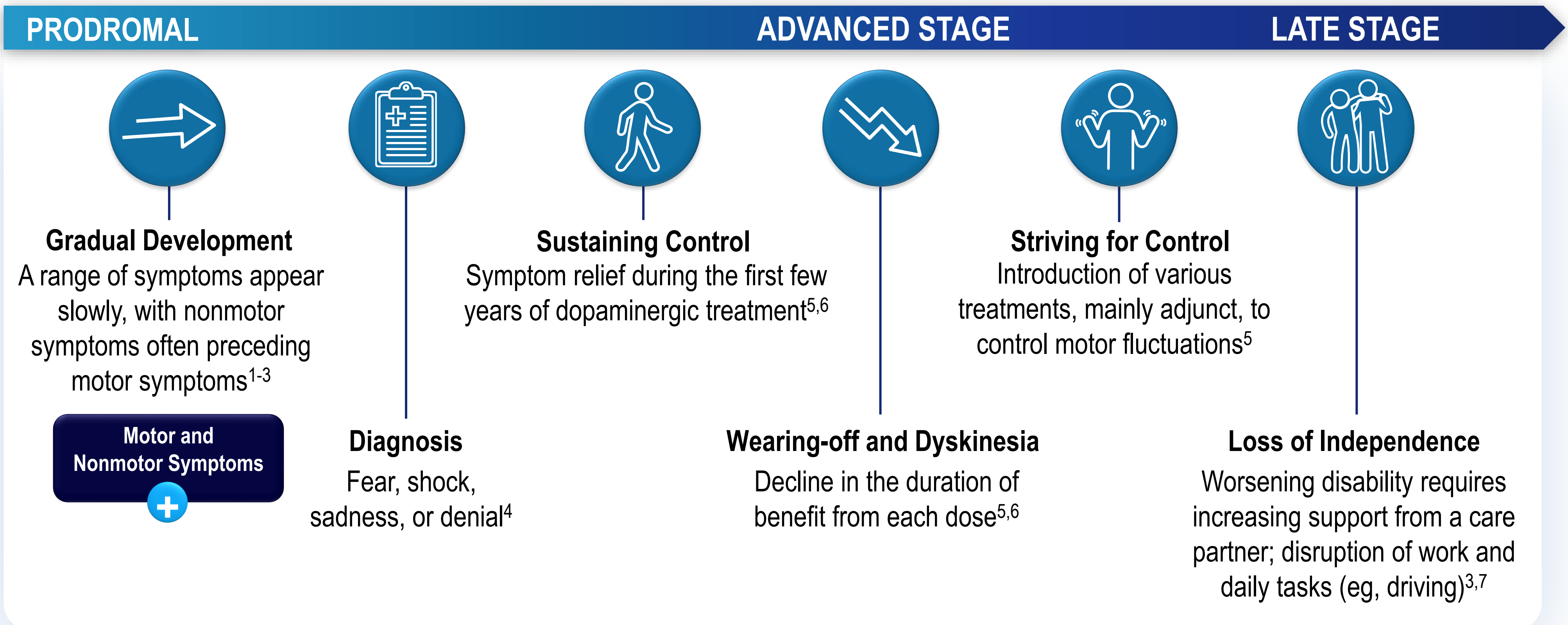


# PD IS A COMPLEX, PROGRESSIVE DISORDER THAT PLACES A SIGNIFICANTLY INCREASING BURDEN ON PATIENTS AND CARE PARTNERS

The course of PD does not follow a clear trajectory. Each patient experiences his or her own individualized journey.<sup>1-4</sup>



## PSYCHOSOCIAL IMPACTS WORSEN THROUGHOUT THE COURSE OF PD<sup>3,7,8</sup>

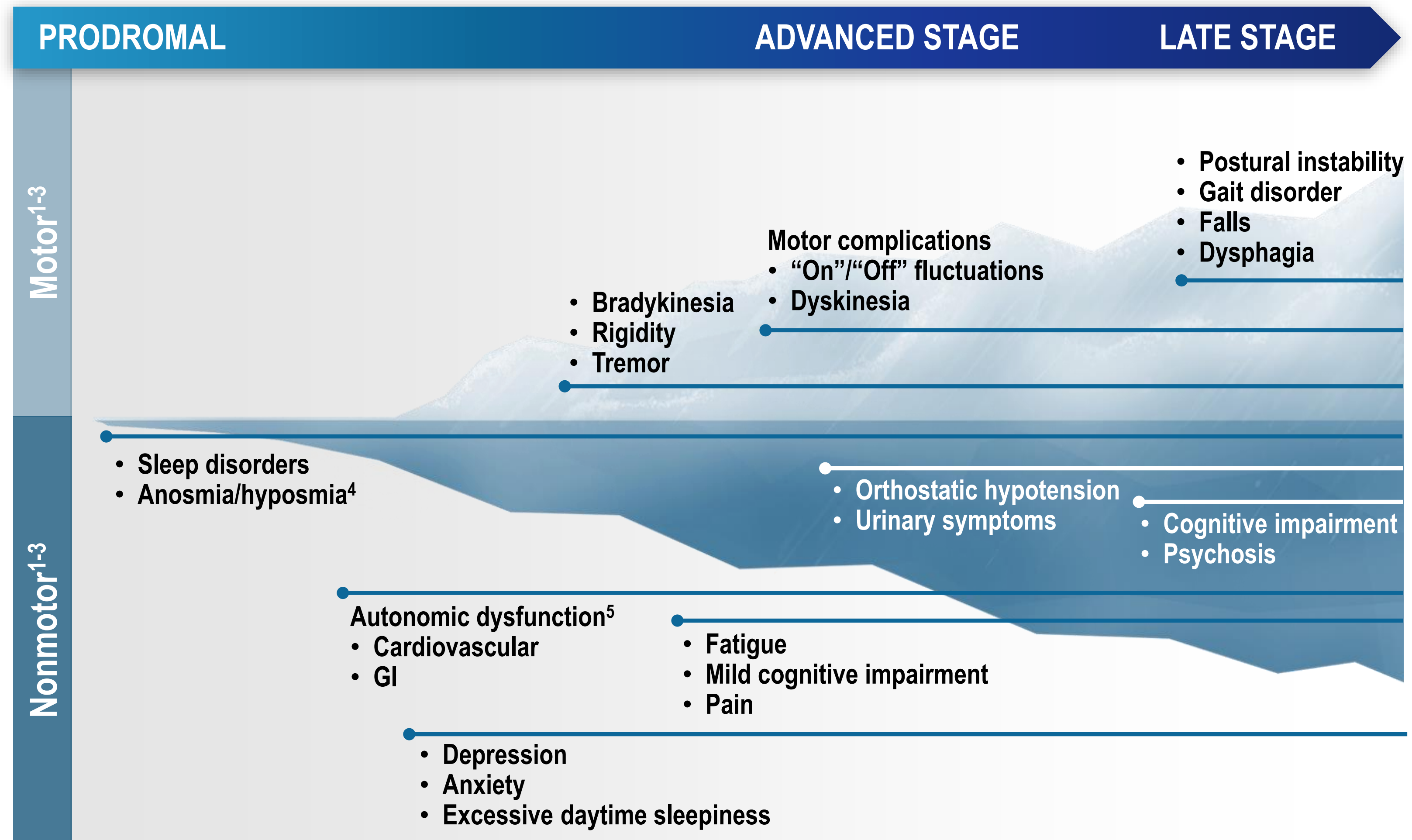


- Lower self-esteem
- Loss of identity
- Living in uncertainty



- Changes in relationships
- Social withdrawal
- Increased burden for care partner

# PD IS A PROGRESSIVE MULTISYSTEM DISORDER CHARACTERIZED BY MOTOR AND NONMOTOR SYMPTOMS



GI=gastrointestinal.

1. Poewe W, et al. *Nat Rev Dis Primers*. 2017;3:17013. 2. Kalia LV, et al. *Lancet*. 2015;386(9996):896-912. 3. Reichmann H, et al. *Eur Neurol Rev*. 2015;10(2):182-188. 4. Tarakad A, et al. *Int Rev Neurobiol*. 2017;133:541-556. 5. Merola A, et al. *Mov Disord*. 2018;33(3):391-397.

# THE THERAPEUTIC WINDOW OF LEVODOPA RESPONSE DIMINISHES WITH DISEASE PROGRESSION<sup>1-8</sup>

Pulsatile Stimulation

Continuous Stimulation

## EARLY STAGE

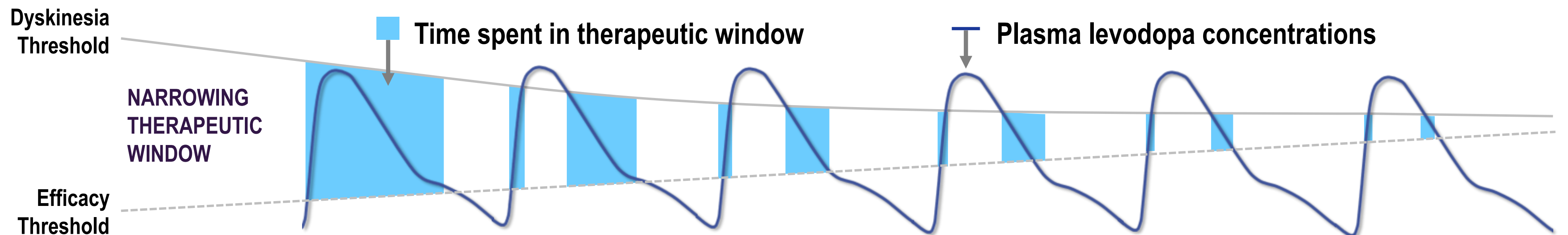
- Smooth, extended response
- Absent or infrequent dyskinesia

## ADVANCED STAGE

- Diminished duration of response
- Increased “Off” fluctuations between doses
- Increased incidence of dyskinesia

## LATE STAGE

- Shorter, unpredictable “On” time with increased dyskinesia



Effect of GI Dysfunction  
on Levodopa Availability



Remaining DA neurons maintain  
relatively constant DA levels



As DA neurons degenerate, intrasynaptic  
concentrations reflect drug levels



# CONTINUOUS LEVODOPA DELIVERY MAY HELP PATIENTS STAY WITHIN THE NARROWING THERAPEUTIC WINDOW<sup>1-7</sup>

Pulsatile Stimulation

Continuous Stimulation

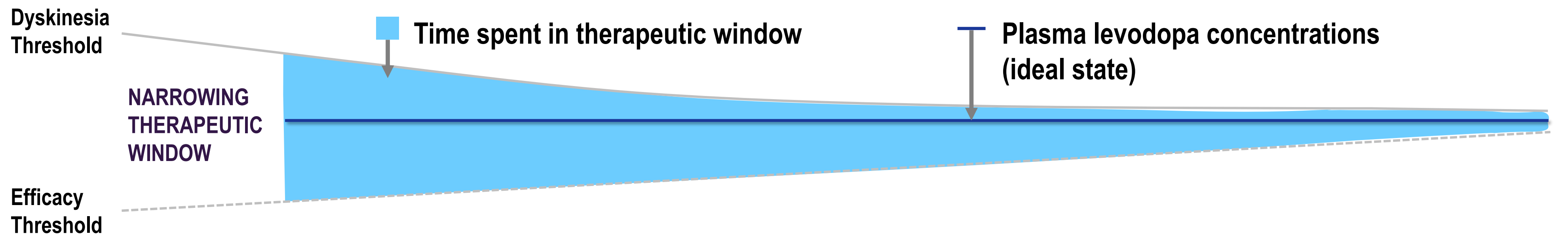
EARLY STAGE

ADVANCED STAGE

LATE STAGE

Goal of continuous therapy is to promote stable levels of dopamine in an effort to:

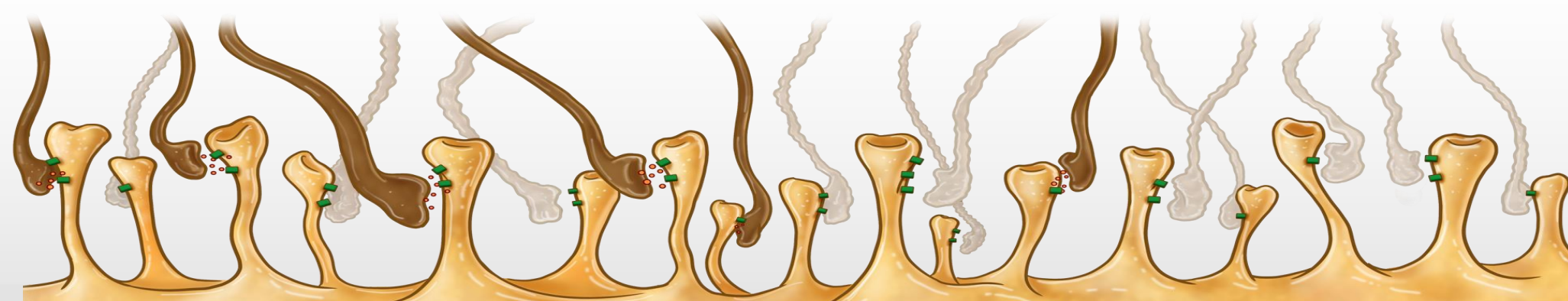
- Reduce “Off” fluctuations and dyskinesia
- Increase “On” time without dyskinesia



Effect of GI Symptoms  
on Levodopa Availability



Remaining DA neurons maintain  
relatively constant DA levels



DA TERMINALS IN THE STRIATUM

As DA neurons degenerate, intrasynaptic  
concentrations reflect drug levels

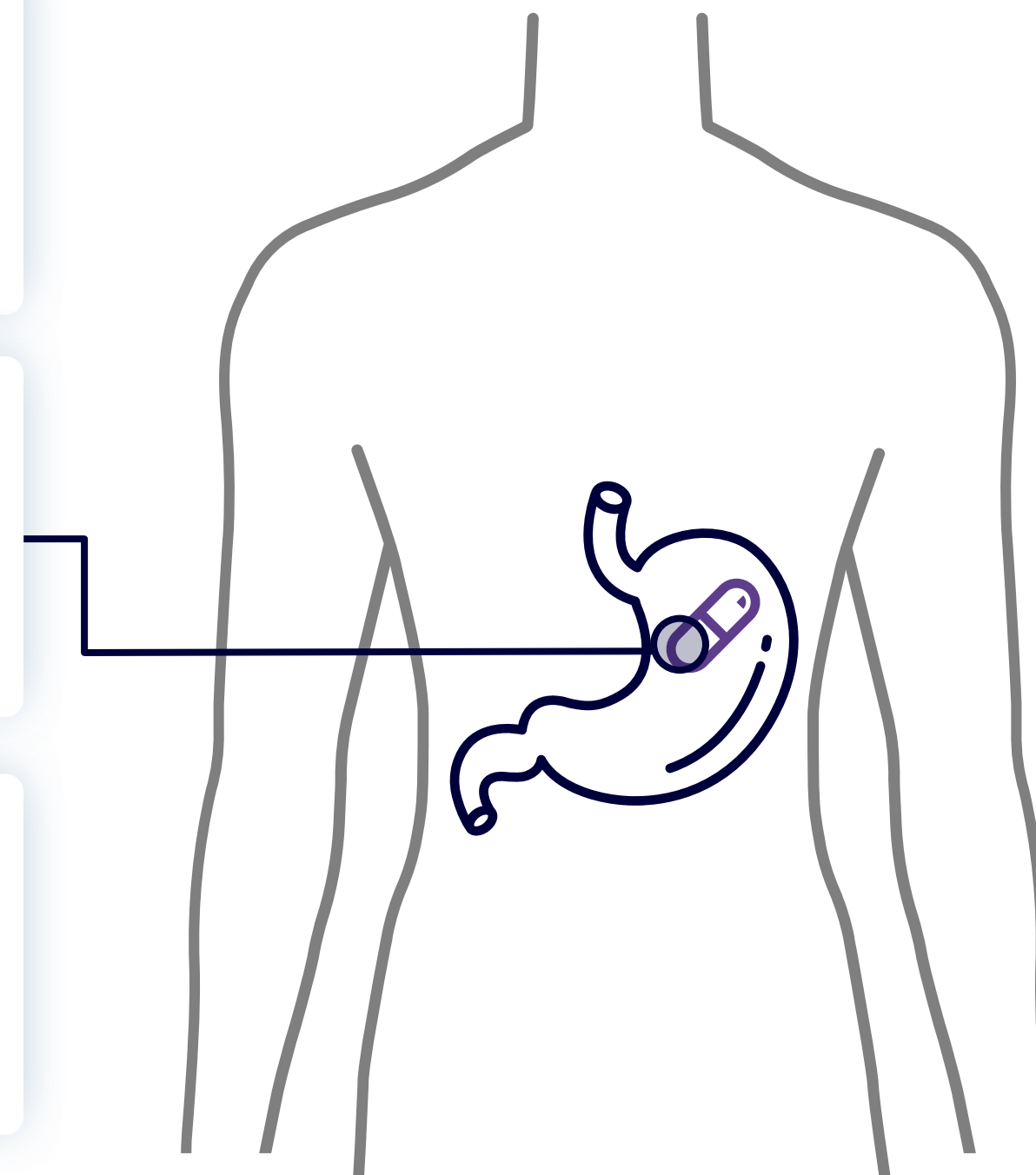
# LEVODOPA AVAILABILITY IS AFFECTED BY GI DYSFUNCTION

**Approximately 70-100% of patients with PD are affected by gastroparesis<sup>1,2</sup>  
Impaired gastric emptying contributes to fluctuations and delays in clinical response among patients on long-term oral LD therapy<sup>1</sup>**

**LD is mainly absorbed in the proximal small intestine<sup>3</sup>**

**Oral LD may be trapped in the stomach and degraded by gastric secretions, reducing drug availability<sup>2,4</sup>**

**CD/LD tablets can remain intact in the stomach 1.5 hours after ingestion<sup>5</sup>**



CD=carbidopa; GI=gastrointestinal; LD=levodopa; PD=Parkinson's disease.

1. Marrinan S, et al. *Mov Disord*. 2014;29(1):23-32. 2. Heetun ZS, et al. *Parkinsonism Relat Disord*. 2012;18(5):433-440. 3. Varanese F, et al. *Parkinsons Dis*. 2011;2010:480260. 4. Stocchi F. *Parkinsonism Relat Disord*. 2009;15(Suppl 3):S68-S71. 5. Fasano A, et al. *Lancet Neurol*. 2015;14(6):625-639.

# **INTRODUCTION TO FOSCARBIDOPA/FOSLEVODOPA CONTINUOUS SUBCUTANEOUS INFUSION SYSTEM**

# CDp/LDp INDICATION AND IMPORTANT SAFETY CONSIDERATIONS<sup>1</sup>

## INDICATION

CDp/LDp is indicated for the treatment of motor fluctuations in adults with advanced Parkinson's disease.

## SELECT IMPORTANT SAFETY INFORMATION

CDp/LDp is **contraindicated** in patients who currently taking a nonselective monoamine oxidase [MAO] inhibitor or have recently (within 2 weeks) taken a nonselective MAO inhibitor.

CDp/LDp may cause:

- **sudden falling asleep** during daily activities. Some patients perceived that they had no warning signs, such as excessive drowsiness. Consider discontinuing CDp/LDp in patients who report significant daytime sleepiness or episodes of falling asleep during activities that require active participation (e.g., conversations, eating).
- **hallucinations and psychosis**. There is an increased risk for hallucinations and psychosis in patients taking CDp/LDp. Patients with a major psychotic disorder should not be treated with CDp/LDp. Hallucinations may be responsive to dose reduction of CDp/LDp or other concomitantly administered medications.
- **impulse control disorders** or compulsive behavior. Consider reducing the dose or discontinuing CDp/LDp if a patient develops such urges.
- **infusion site reactions and infections**. If an infection is suspected at the infusion site, the cannula should be removed from the infusion site. If the cannula is removed for an infection, either a new cannula should be placed at a new infusion site or, in the event of a prolonged interruption, prescribe the patient oral carbidopa/levodopa until they are able to resume CDp/LDp.
- **withdrawal-emergent hyperpyrexia** and confusion. Avoid sudden discontinuation or rapid dose reduction in patients taking CDp/LDp.
- **dyskinesia or exacerbation of dyskinesia**. The occurrence of dyskinesias may require a dosage reduction of CDp/LDp or other medications used to treat PD.

Monitor patients for cardiovascular ischemic events and glaucoma.

The **most common adverse reactions (CDp/LDp incidence at least 10% and greater than oral CD/LD incidence)** were infusion/catheter site reactions, infusion/catheter site infections, hallucinations, and dyskinesia.

**Review CDp/LDp full Prescribing Information for additional information; visit [www.rxabbvie.com](http://www.rxabbvie.com) or contact AbbVie Medical Information at 1-800-633-9110.**

1. CDp/LDp [package insert]. North Chicago, IL: AbbVie Inc.



# THE CDp/LDp SYSTEM ALLOWS FOR CONTINUOUS TREATMENT THROUGH A PORTABLE INFUSION PUMP<sup>1-3</sup>

## Delivery

- **24 hours/day** continuous infusion of LD-based therapy
  - Replaces LD-containing medications and COMT inhibitors\*
  - Can temporarily disconnect for water-based activities<sup>†</sup>

## Formulation

- **CDp/LDp is converted** to CD/LD by alkaline phosphatases
- **Bypasses the gut**
  - Absorption or systemic exposure of CD/LD not affected by food or iron salts<sup>3</sup>

## Dosing

- **Individualized dosing** to address clinical needs of patients<sup>‡</sup>
  - **Precise** adjustments to hourly infusion rate by **1.7 mg LE/hr**
  - Account for changes in functional demand with alternative **low/high flow rates**<sup>§</sup>
  - Self-administered **optional loading dose** and **extra dose** functions<sup>§</sup>
  - Maximum recommended daily dose of CDp/LDp is ~2500 mg LE (3525 mg LDp)

**Components of the  
CDp/LDp CSCI System**

**PK Study in  
PD Patients**

\*Prescribing a backup oral carbidopa and levodopa product is recommended in the event that delivery of CDp/LDp is interrupted, which may result in underdosing. The maximum recommended daily dosage of CDp/LDp is ~2500 mg LE (3525 mg of LDp). <sup>†</sup>Can disconnect for <1 hour without the need for replacing cannula and/or infusion-set tubing. <sup>‡</sup>In the pivotal trial, doses ranged from ~600 to 4250 mg LE (864-6000 mg LDp). <sup>§</sup>If enabled by their healthcare professional.



## COMPONENTS OF THE CDp/LDp CSCI SYSTEM<sup>1,2</sup>

**CDp/LDp infusion pump**  
Size: 6.7 x 3.0 x 1.3 inches  
Weight: 10 oz (285 g)

**Cannula**

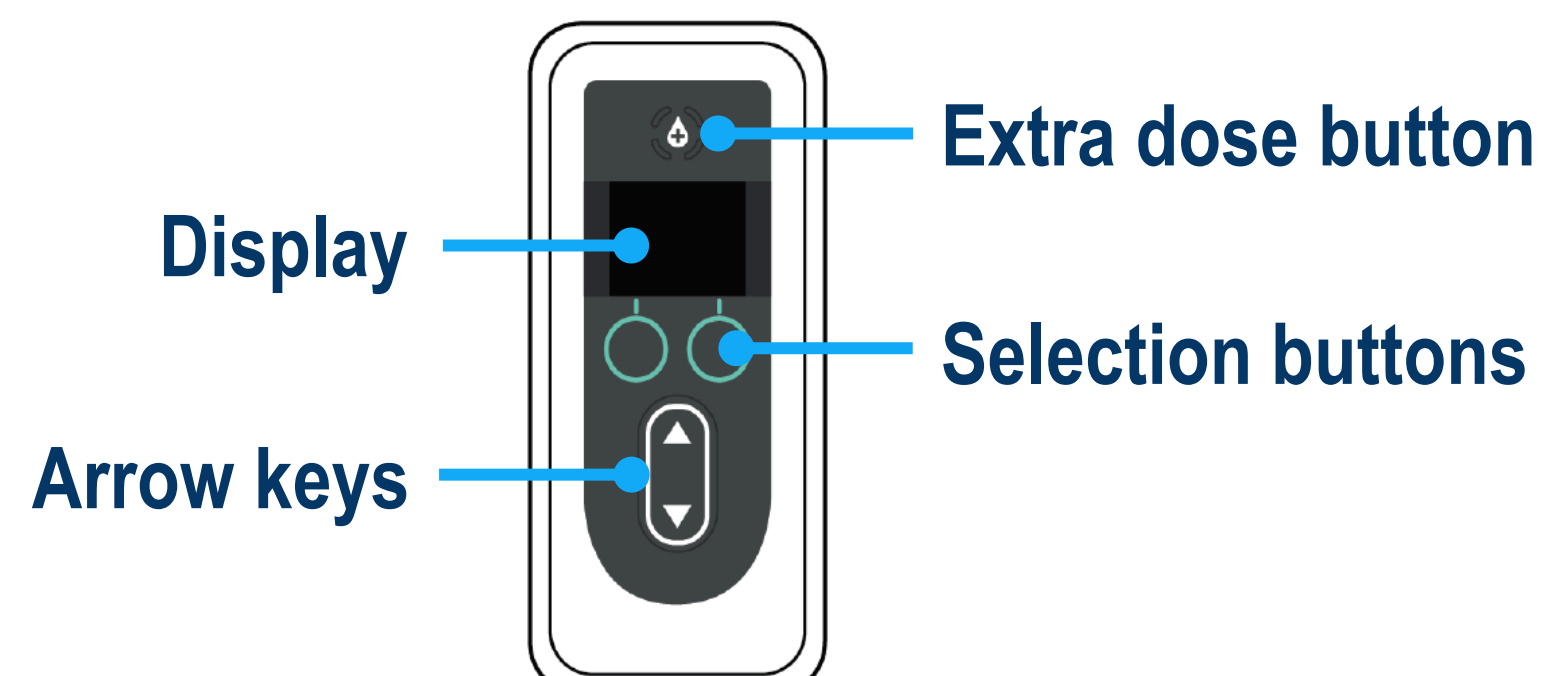
**Tubing**

CDp/LDp=foscarbidopa/  
foslevodopa; CSCI=continuous  
subcutaneous infusion.

1. VYAFUSER™ HCP Technical Manual. Struer, Denmark.
2. VYAFUSER™ Patient Technical Manual. Struer, Denmark.



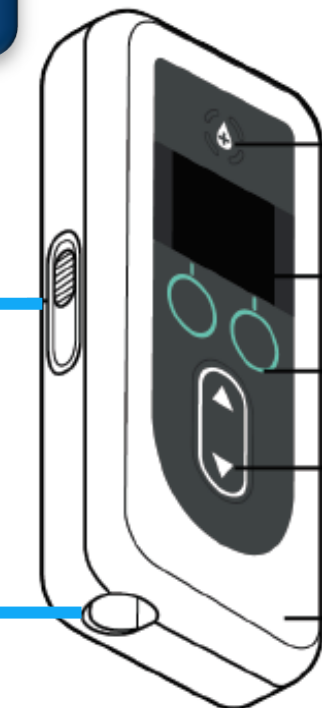
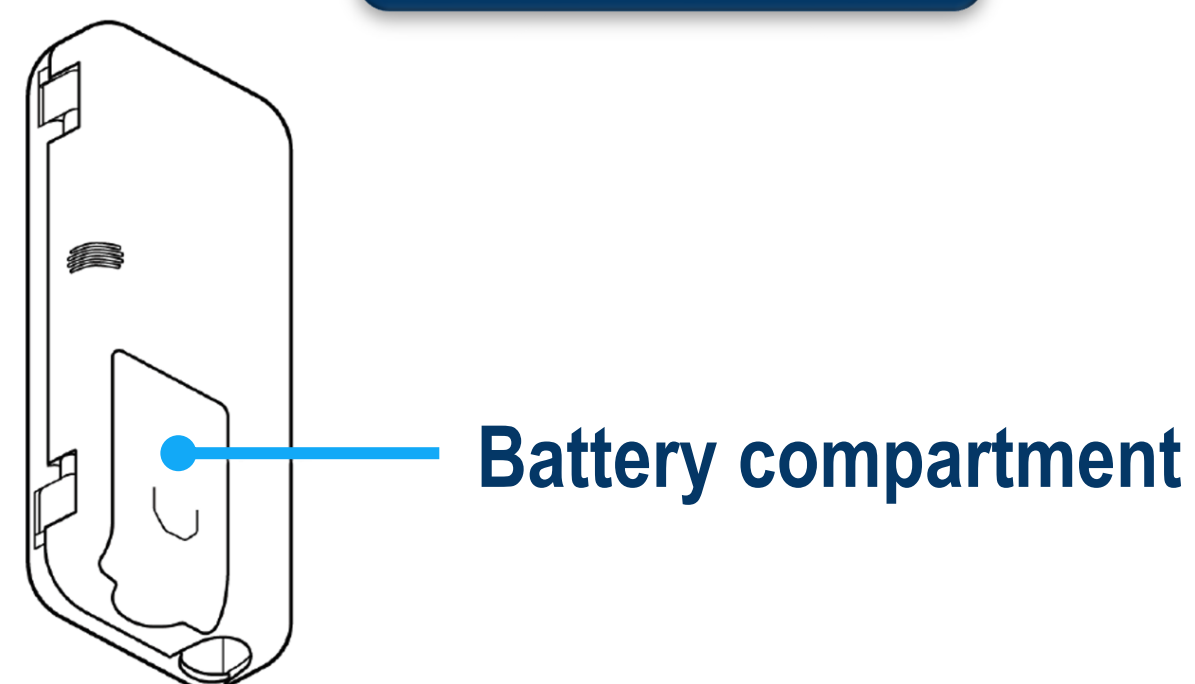
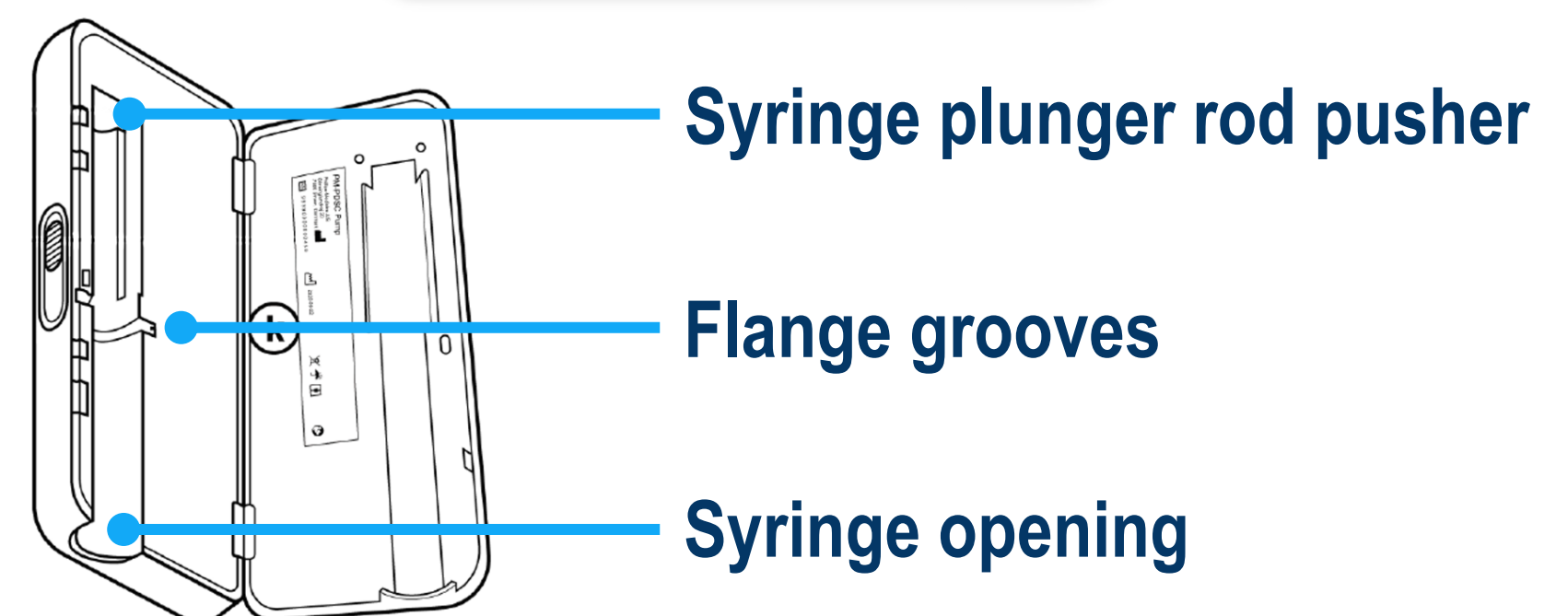
## PUMP COMPONENTS<sup>1,2</sup>

**Front view****Side view (closed)****Sliding button (lid latch)**

to release the lock and open the casing longitudinally

**Opening**

to allow the syringe tip to protrude so it can be connected to the infusion tubing

**Back side view****Open view**



# INDIVIDUAL COMPONENTS OF THE CDp/LDp CSCI SYSTEM<sup>1-3</sup>

Replaced at least once per day



Medication vial



Vial adapter



Syringe



Battery

Replaced at least once every 3 days



Tubing



Cannula insertion  
device with cannula

CDp/LDp=foscarbidopa/foslevodopa; CSCI=continuous subcutaneous infusion.

1. CDp/LDp [package insert]. North Chicago, IL: AbbVie Inc. 2. VYAFUSER™ HCP Technical Manual. Struer, Denmark. 3. VYAFUSER™ Patient Technical Manual. Struer, Denmark.



# **FOSCARBIDOPA/FOSLEVODOPA PIVOTAL TRIAL**

# CHANGE FROM BL TO WEEK 12 IN “ON” TIME WITHOUT TROUBLESOME DYSKINESIA AND “OFF” TIME FOR CDp/LDp VS ORAL IR CD/LD<sup>1,2</sup>

## Select Inclusion Criteria

- ≥30 years of age and LD-responsive idiopathic PD
- Motor fluctuations inadequately controlled by current therapy with minimum daily average “Off” time of 2.5 hours per day

## Select Exclusion Criteria

- History of significant skin conditions or disorders
- History of DBS, CLES, apomorphine, or any PD medication as continuous infusion

Study Overview

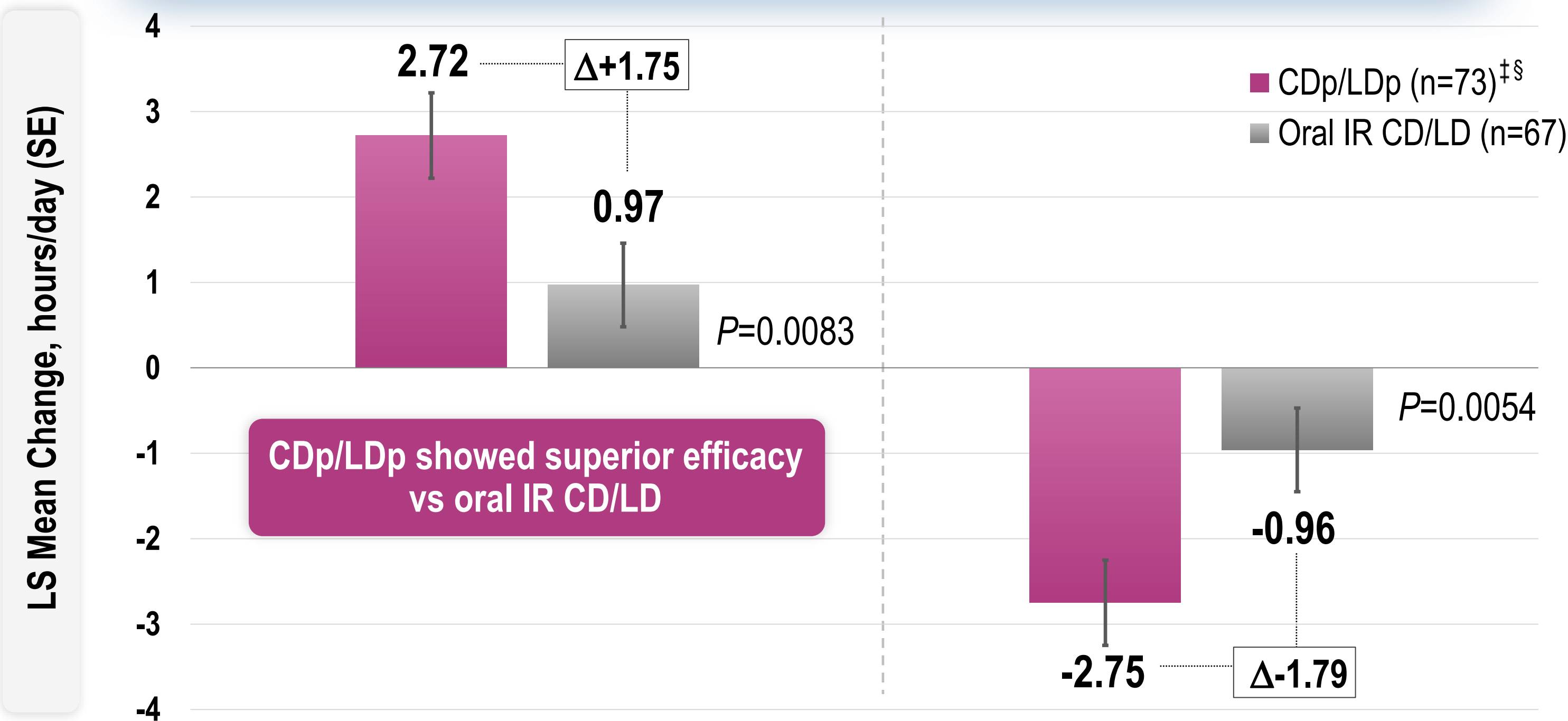
Baseline Characteristics

PD Diary

Data Visualizations

### Primary Endpoint\* “On” Time Without Troublesome Dyskinesia

### Ranked Secondary Endpoint† “Off” Time



\*Primary endpoint of “On” time without troublesome dyskinesia is the sum of “On” time without dyskinesia and “On” time with non-troublesome dyskinesia, normalized to a daily 16-hour waking day. †“Off” time as assessed using the PD diary. ‡There were 74 patients in the CDp/LDp cohort, and 1 patient did not have PD diary data. §Daily normalized “Off” and “On” times are averaged over valid PD diary days for each visit to obtain the average daily normalized times.

## PIVOTAL TRIAL—CDp/LDp IN PATIENTS WITH ADVANCED PD<sup>1,2</sup>



### Study

12-week randomized, double-blind, double-dummy,  
active-controlled, multicenter study



### Primary Objective

Evaluate efficacy and safety of CDp/LDp CSCI vs oral IR CD/LD

CD/LD=carbidopa/levodopa; CDp/LDp=foscarbidopa/foslevodopa; CSCI=continuous subcutaneous infusion; IR=immediate release; PD=Parkinson's disease.

1. CDp/LDp [package insert]. North Chicago, IL: AbbVie Inc. 2. Soileau MJ, et al. *Lancet Neurol*. 2022;21(12):1099-1109.



## KEY ELIGIBILITY CRITERIA<sup>1-4</sup>

### Inclusion Criteria

- ☒ Adult patients  $\geq 30$  years of age
- ☒ Levodopa-responsive idiopathic PD\*
- ☒ Motor fluctuations inadequately controlled by current therapy
- ☒ MMSE score  $\geq 24$
- ☒ Minimum daily average “Off” time of 2.5 hours per day
- ☒ Currently taking at least 400 mg of LE per day<sup>†</sup>

### Exclusion Criteria

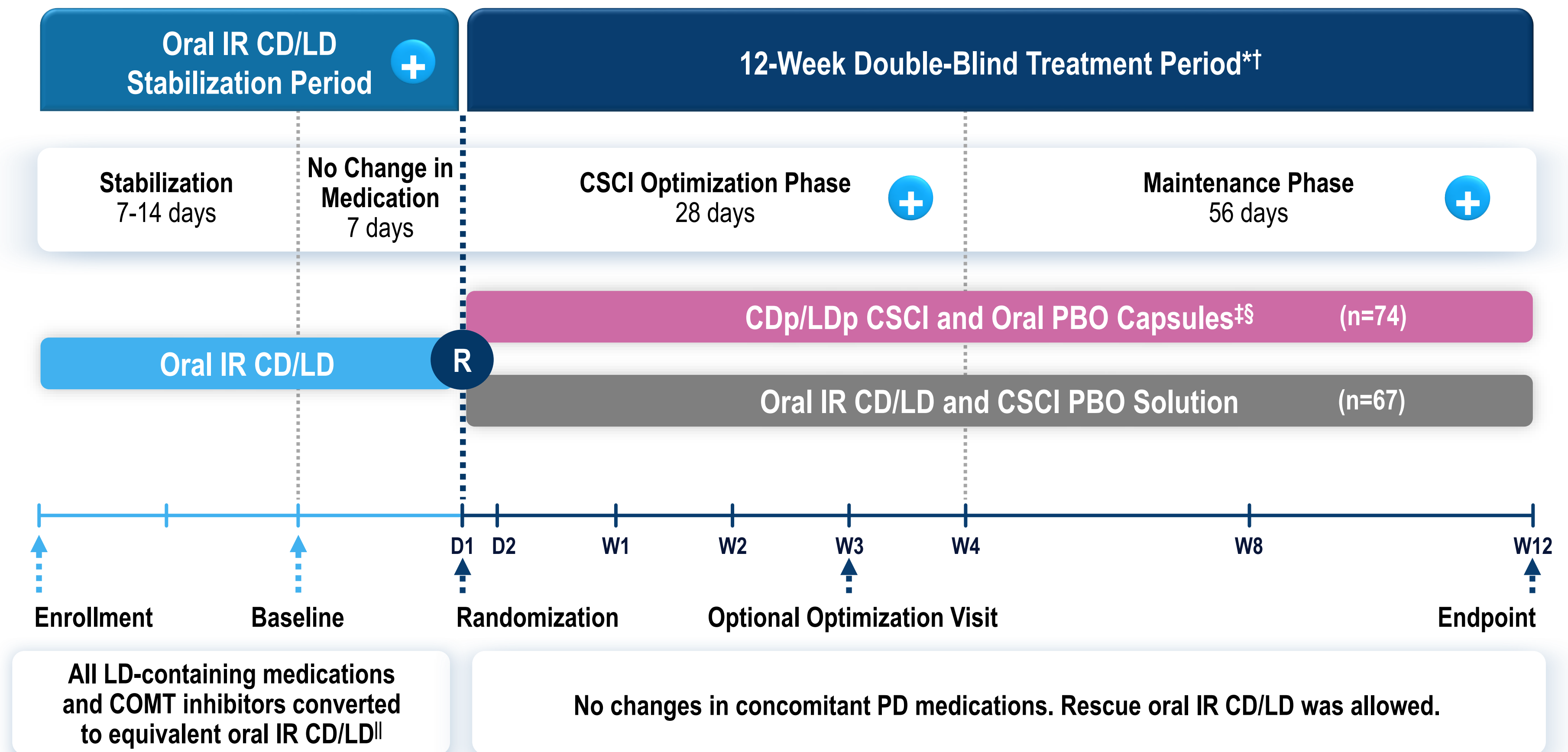
- ☐ Low vitamin B<sub>12</sub> level<sup>3‡</sup>
- ☐ History of significant skin conditions or disorders
- ☐ History of deep brain stimulation
- ☐ Prior CLES, apomorphine, or other continuous daily infusion of PD medication
- ☐ Previous exposure to foscarnidopa/foslevodopa

\*With recognizable/identifiable “Off” and “On” states. <sup>†</sup>From LD-containing medications and COMT inhibitors. <sup>‡</sup>Patients were allowed to be rescreened if vitamin B<sub>12</sub> level <200 pg/mL or low-normal level (<300 pg/mL) with elevated methylmalonic acid (>0.41 mmol/L) at the first visit.<sup>4</sup>

CLES=carbidopa/levodopa enteral suspension; COMT=catechol-O-methyltransferase; LD=levodopa; LE=levodopa equivalents; MMSE=Mini-Mental State Examination; PD=Parkinson’s disease.

1. CDp/LDp [package insert]. North Chicago, IL: AbbVie Inc. 2. Soileau MJ, et al. *Lancet Neurol.* 2022;21(12):1099-1109. 3. Soileau MJ, et al. Supplement to: *Lancet Neurol.* 2022;21(12):1099-1109. 4. Facheris MF, et al. Poster presented at: Movement Disorder Society Virtual Annual Meeting; September 12-16, 2020.

# STUDY DESIGN<sup>1-3</sup>



\*All participants were eligible to receive open-label oral IR CD/LD as rescue medication in the event of rapid deterioration of motor symptoms. <sup>†</sup>Extra dose functions and low/high rates of the CSCI pump were disabled to maintain blinding. <sup>‡</sup>Doses in trial ranged from 600 mg to 4250 mg LE. <sup>§</sup>The maximum recommended daily dosage of CDp/LDp is 3525 mg of the LDp component (equivalent to approximately 2500 mg LE). <sup>||</sup>Concomitant PD medications (with the exception of COMT inhibitors) that were non-LD-containing were not included; these were allowed in the study but had to remain unchanged until study completion.

CD/LD=carbidopa/levodopa; CDp/LDp=foscarbidopa/foslevodopa; COMT=catechol-O-methyltransferase; CSCI=continuous subcutaneous infusion; D=day; IR=immediate release; LE=levodopa equivalents; PBO=placebo; PD=Parkinson's disease; R=randomization; W=week.

1. CDp/LDp [package insert]. North Chicago, IL: AbbVie Inc. 2. Soileau MJ, et al. *Lancet Neurol.* 2022;21(12):1099-1109. 3. Soileau MJ, et al. Supplement to: *Lancet Neurol.* 2022;21(12):1099-1109.

All Patients Overview

By Treatment Group

## DEMOGRAPHICS AND CLINICAL CHARACTERISTICS OF ALL PARTICIPANTS<sup>1,2</sup>

Min Mean Max N=141

Age, years +

39

66.4

85

Duration Since Onset of Motor Fluctuations, years

0.3

5.6

19.3

“On” Time Without Troublesome Dyskinesia, hours

0

9.3

13.6

“Off” Time, hours +

2.5

6.1

14.0

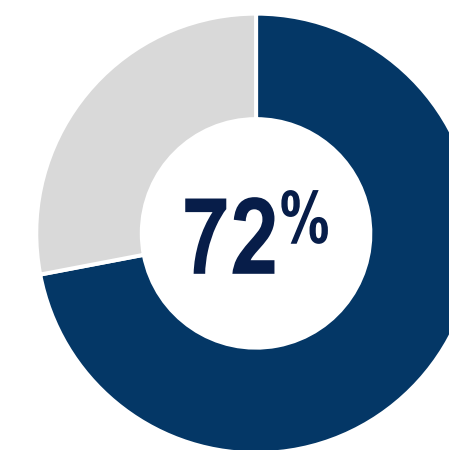
Daily Levodopa Dose at Baseline, mg\*

400

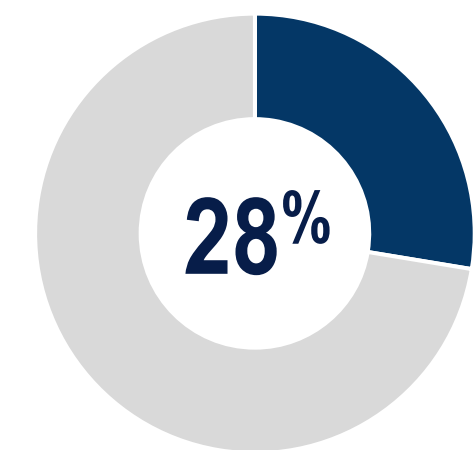
1170

3200

Hoehn and Yahr, %<sup>†</sup> +



Stages 1 and 2<sup>‡</sup>



≥ Stage 3

Mean Oral IR CD/LD Frequency



Concomitant Medications and Dosing



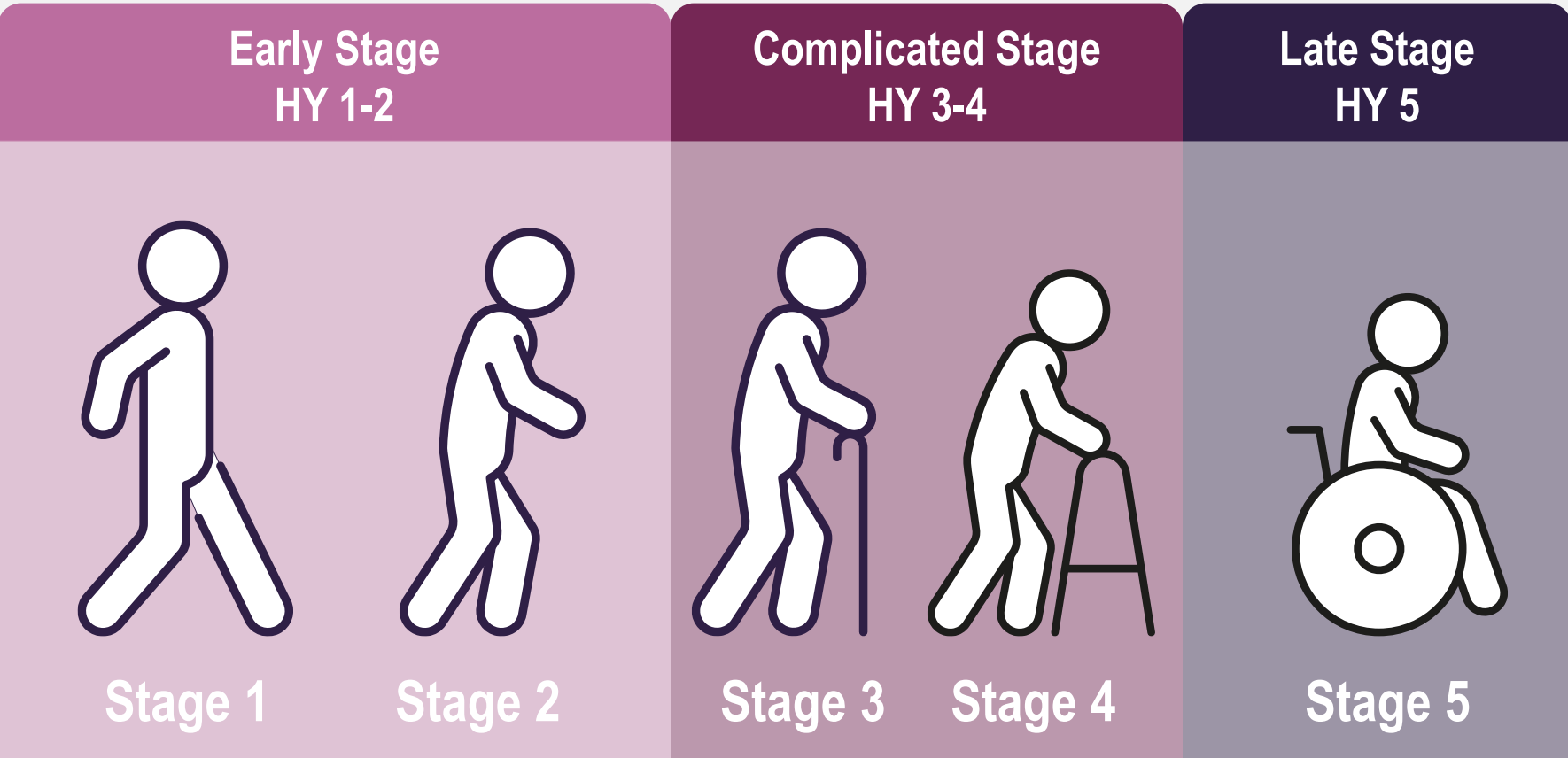
\*Inclusive of medications containing LD and COMT. <sup>†</sup>Hoehn and Yahr stages captured in PD patients in the “On” state or on medication. <sup>‡</sup>One patient in the oral IR CD/LD arm had a reported H & Y of stage 0.

1. Soileau MJ, et al. *Lancet Neurol.* 2022;21(12):1099-1109. 2. Data on File, AbbVie Inc. ABVRRT175558.



# HOEHN AND YAHR SCALE FOR PIVOTAL TRIAL PATIENTS<sup>1,2</sup>

## Criteria for H&Y Stages<sup>1\*</sup>



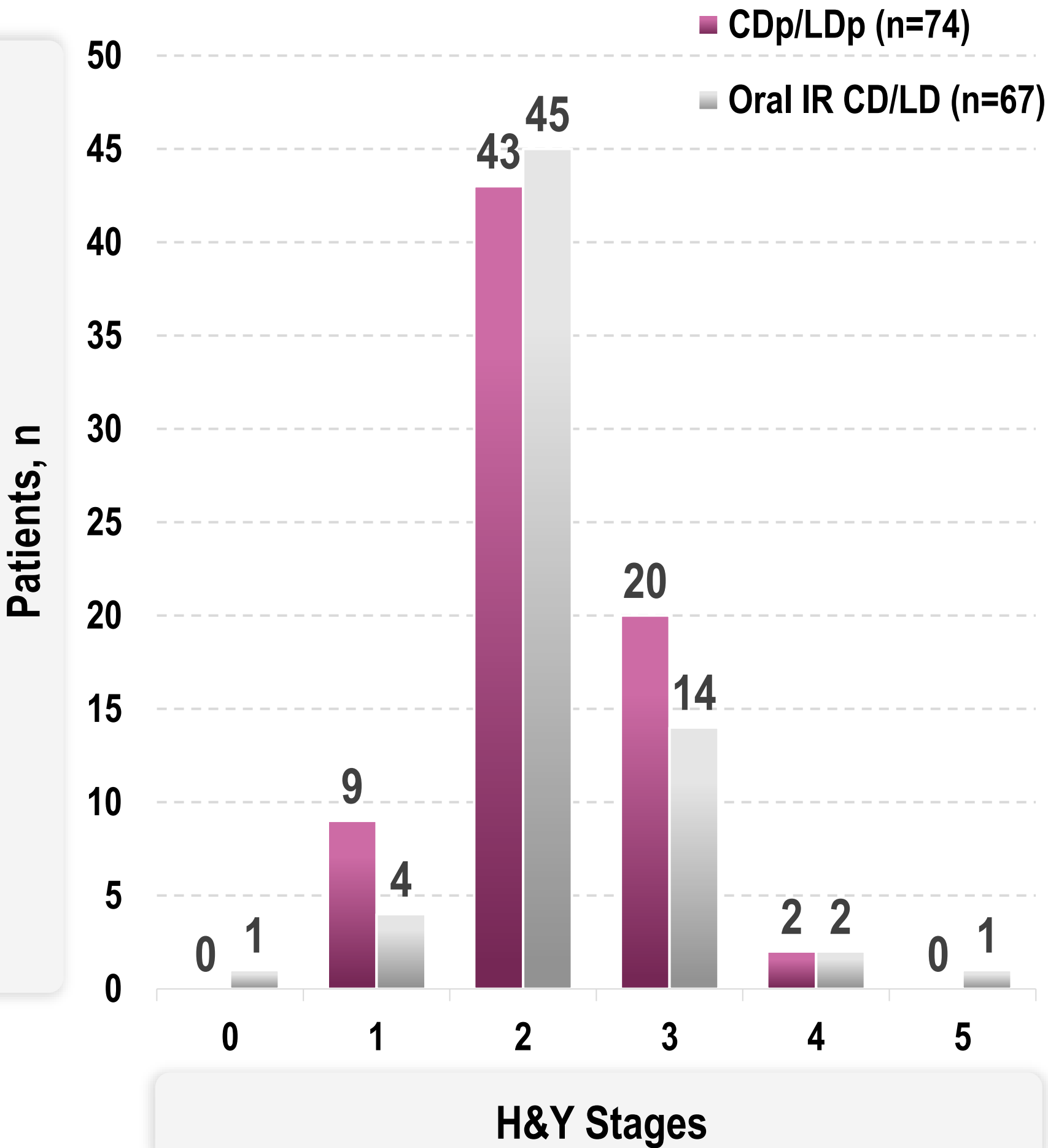
- 1 Unilateral involvement only, usually with minimal or no functional disability
- 2 Bilateral or midline involvement without impairment of balance
- 3 Bilateral disease: mild to moderate disability with impaired postural reflexes; physically independent
- 4 Severely disabling disease; still able to walk or stand unassisted
- 5 Confinement to bed or wheelchair unless aided

\*0=no signs of disease present. †One patient in the oral IR CD/LD arm had a reported H & Y of stage 0.

CD/LD=carbidopa/levodopa; CDp/LDp=foscarbidopa/foslevodopa; H&Y=Hoehn and Yahr; IR=immediate release.

1. Goetz CG, et al. *Mov Disord.* 2004;19(8):1020-1028. 2. Soileau MJ, et al. *Lancet Neurol.* 2022;21(12):1099-1109.

## Baseline H&Y Stages<sup>2†</sup>



# CONCOMITANT MEDICATION<sup>1\*†</sup>

n (%)	CDp/LDp (n=74)	Oral IR CD/LD (n=67)	Total (N=141)
No Other PD Medication	19 (25.7)	23 (34.3)	42 (29.8)
1 Additional Class of PD Medication	34 (45.9)	26 (38.8)	60 (42.6)
2 Additional Classes of PD Medications	19 (25.7)	14 (20.9)	33 (23.4)
3 Additional Classes of PD Medications	2 (2.7)	4 (6.0)	6 (4.3)
>3 Additional Classes of PD Medications	0	0	0
Dopamine agonists	34 (45.9)	25 (37.3)	59 (41.8)
MAO-B inhibitors	26 (35.1)	21 (31.3)	47 (33.3)
Amantadine	14 (18.9)	15 (22.4)	29 (20.6)
COMT inhibitors	0	0	0
Istradefylline	2 (2.7)	3 (4.5)	5 (3.5)
Benztropine	0	1 (1.5)	1 (0.7)
Trihexyphenidyl	1 (1.4)	2 (3.0)	3 (2.1)

<sup>\*</sup>Concomitant medication after converting LD-containing medications and COMT inhibitors to oral IR CD/LD in the oral CD/LD stabilization period.<sup>1,2</sup> <sup>†</sup>Concomitant PD medications that were non-LD-containing medication were allowed in the study but had to remain unchanged until study completion.<sup>2</sup>

CD/LD=carbidopa/levodopa; CDp/LDp=foscarbidopa/foslevodopa; COMT=catechol-O-methyltransferase; IR=immediate release; MAO-B=monoamine oxidase type B; PD=Parkinson’s disease.

1. Data on File, AbbVie Inc. ABVRRTI75558. 2. Soileau MJ, et al. *Lancet Neurol.* 2022;21(12):1099-1109.

# ADVERSE EVENTS IN THE PIVOTAL TRIAL<sup>1,2</sup>

Arranged by Frequency			Arranged by Type			Severity of AEs			AEs by Study Phase		
Infusion/Catheter Site	Adverse Events <sup>2*</sup>	CDp/LDp n=74 (%)	Oral IR CD/LD n=67 (%)	Motor Symptom	Adverse Events <sup>1†</sup>	CDp/LDp n=74 (%)	Oral IR CD/LD n=67 (%)	Neurocognitive	Adverse Events <sup>1†</sup>	CDp/LDp n=74 (%)	Oral IR CD/LD n=67 (%)
	Erythema	27	1		Dyskinesia	11	6		Dyskinesia	11	6
	Pain	26	1		“On” and “Off” phenomenon	8	0		“On” and “Off” phenomenon	8	0
	Cellulitis	19	0		Balance disorder	5	0		Balance disorder	5	0
	Edema	12	0		Hallucinations	12	2.5		Hallucinations	12	2.5
	Bruising	8	3	GI	Agitation	4	2	Other	Agitation	4	2
	Hemorrhage	8	0		Insomnia	4	2		Insomnia	4	2
	Nodule	8	0		Psychotic disorder <sup>‡</sup>	4	2		Psychotic disorder <sup>‡</sup>	4	2
	Induration	5	0	Other	Constipation	5	0		Constipation	5	0
	Infection	5	0		Peripheral swelling	5	0		Peripheral swelling	5	0
	Pruritis	5	0		Dyspnea	4	0		Dyspnea	4	0

- Majority of AEs were nonserious and mild to moderate in severity
- Two participants in the CDp/LDp arm were hospitalized with serious infusion/catheter site infections requiring treatment with antibiotics
- No infusion/catheter site AEs resulted in systemic complications

Falls occurred at a greater rate in patients who received oral IR CD/LD (18%) versus CDp/LDp (8%).

<sup>\*</sup>AEs that occurred in ≥5% of patients. Data available in Soileau, et al. publication. <sup>†</sup>AEs that occurred in ≥3% of patients in the CDp/LDp arm and with a difference of >2% between the CDp/LDp arm and the oral IR CD/LD arm. Data available in package insert. <sup>‡</sup>Psychotic disorder included psychotic disorder, delusion, and paranoia.



# PRIMARY REASON FOR DISCONTINUATION<sup>1\*</sup>

	CDp/LDp N=74, n (%)	Oral IR CD/LD N=67, n (%)
<b>Discontinued Study Drug</b>	<b>26 (35.1)</b>	<b>5 (7.5)</b>
Adverse event	14 (18.9)	1 (1.5)
Infusion site cellulitis	4 (5.4)	0
Infusion site hemorrhage	2 (2.7)	0
Infusion site pain	2 (2.7)	0
Infusion site edema	1 (1.4)	0
Infusion site bruising	1 (1.4)	0
Dizziness, postural	1 (1.4)	0
Asthenia	1 (1.4)	0
Diaphragm muscle weakness	1 (1.4)	0
Hallucination	1 (1.4)	0
Cellulitis	0	1 (1.5)
Withdrew consent	5 (6.8)	3 (4.5)
Lack of efficacy	1 (1.4)	0
Difficulty with drug delivery system	4 (5.4)	1 (1.5)
Other	2 (2.7)	0

<sup>1</sup>\*Patients may have had >1 reason for discontinuation; however, listed here is the primary reason for discontinuation.

# CDp/LDp FOR THE TREATMENT OF MOTOR FLUCTUATIONS IN ADULT PATIENTS WITH ADVANCED PD<sup>1,2</sup>

CDp/LDp is a nonsurgical, subcutaneous option for 24-hour continuous, LD-based therapy titratable for individualized treatment

Increase in mean “On” time without troublesome dyskinesia at Week 12 (primary endpoint)\*

 **2.72** hours

Reduction in mean “Off” time at Week 12 (secondary endpoint)\*

 **2.75** hours

Most common adverse reactions for CDp/LDp at an incidence of at least 10% greater than oral IR CD/LD incidence were:

Infusion/Catheter  
site reactions

Infusion/Catheter  
site infections

Hallucinations

Dyskinesia

The majority of AEs were nonserious and mild to moderate in severity

\*Data are LS means.

# REFERENCES

1. Poewe W, et al. *Nat Rev Dis Primers*. 2017;3:17013. doi:10.1038/nrdp.2017.13
2. Kalia LV, et al. *Lancet*. 2015;386(9996):896-912. doi:10.1016/S0140-6736(14)61393-3
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4. Gofton TE, et al. *Can J Neurol Sci*. 2008;35(4):510-512. doi:10.1017/s0317167100009227
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6. Stocchi F, et al. *Eur Neurol*. 2010;63(5):257-266. doi:10.1159/000300647
7. Read J, et al. *PLoS One*. 2019;14(12):e0226916. doi:10.1371/journal.pone.0226916
8. Boeresma I, et al. *Neurol Clin Pract*. 2016;6(3):209-219. doi:10.1212/CPJ.0000000000000233

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1. Olanow CW, et al. *Lancet Neurol*. 2006;5(8):677-687. doi:10.1016/S1474-4422(06)70521-X
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