

# ACADIA Corporate Update

July 20, 2020



# Agenda

---

## INTRODUCTION

**Mark Johnson** | Vice President, Investor Relations

---

## CEO OPENING REMARKS

**Steve Davis** | Chief Executive Officer

---

## PHASE 3 CLARITY RESULTS

**Serge Stankovic, M.D., M.S.P.H.** | President

---

## CEO CLOSING REMARKS

**Steve Davis** | Chief Executive Officer

---

## Q&A

**Michael Yang** | Chief Commercial Officer, available for Q&A  
**Elena Ridloff** | Chief Financial Officer, available for Q&A

---

# Forward-Looking Statement

---

This presentation contains forward-looking statements. These statements relate to future events and involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements to be materially different from any future results, performances or achievements expressed in or implied by such forward-looking statements. Each of these statements is based only on current information, assumptions and expectations that are inherently subject to change and involve a number of risks and uncertainties. Forward-looking statements include, but are not limited to, statements related to: the potential benefits of pimavanserin as a treatment for the hallucinations and delusions associated with dementia-related psychosis, as an adjunctive treatment for major depressive disorder or other central nervous system disorders as well as the potential results of clinical trials of pimavanserin in other indications.

In some cases, you can identify forward-looking statements by terms such as “may,” “will,” “should,” “could,” “would,” “expects,” “plans,” “anticipates,” “believes,” “estimates,” “projects,” “predicts,” “potential” and similar expressions (including the negative thereof) intended to identify forward-looking statements. Given the risks and uncertainties, you should not place undue reliance on these forward-looking statements. For a discussion of the risks and other factors that may cause our actual results, performance or achievements to differ, please refer to our annual report on Form 10-K for the year ended December 31, 2019 as well as our subsequent filings with the SEC. The forward-looking statements contained herein are made as of the date hereof, and we undertake no obligation to update them for future events.

# Opening Remarks

---

Steve Davis  
CEO

# FDA Accepts sNDA for Dementia-Related Psychosis (DRP) for Filing

- ✓ **sNDA Submitted June 3, 2020**
- ✓ **FDA Accepts sNDA for Filing**
  - FDA has not identified any potential review issues at this point in their evaluation
  - FDA is not currently planning to hold an Advisory Committee meeting
  - PDUFA Date: April 3, 2021

*sNDA includes the following:*

## Pivotal Efficacy

Positive Phase 3  
HARMONY Study

## Supportive Efficacy

Positive Phase 2 (-019)  
Alzheimer's Disease  
Psychosis Study<sup>1</sup>  
&  
Positive data in PDP (-020)  
patients with dementia<sup>2</sup>

## Large Safety Database

Safety and  
Tolerability Data  
from Completed  
& Ongoing Studies

# Summary of Top-line Phase 3 CLARITY Results

---

## **The study did not achieve statistical significance on the primary endpoint**

- Primary endpoint on HAMD-17 total score compared to placebo (p=0.296)
- Observed consistent improvement of depressive symptoms over time compared to placebo

## **Pimavanserin showed positive improvement on the key secondary endpoint**

- Clinically meaningful improvement on disease severity as measured by CGI-S (nominal p=0.042)

## **Pimavanserin was well-tolerated with low rates of adverse events, serious adverse events, and discontinuations due to adverse events**

- No meaningful effect on vital signs, metabolic parameters or extrapyramidal symptoms

# Pimavanserin Studies in Depression

## CLARITY-1 Study

- ✓ Achieved Significance on Primary Endpoint (HAMD-17)
- ✓ Achieved Significance on Key Secondary (SDS)
- ✓ 7 Additional Positive Secondaries (Including CGI-S & KSS)
- ✓ Well-tolerated

## Phase 3 CLARITY Study

- ✗ Did Not Achieve Significance on Primary Endpoint (HAMD-17)
- ✓ Positive Improvement on Key Secondary (CGI-S)
- ✓ Positive Improvement on Daytime Wakefulness (KSS)
- ✓ Well-tolerated

## Open-Label Study\* *Parkinson's Disease with Comorbid Depression*

- ✓ Achieved Significance on Primary Endpoint (HAMD-17)
- ✓ Positive Improvement on Key Secondary (CGI-S)
- ✓ Positive Improvement on Sleep Quality (SCOPA-GS)
- ✓ Well-tolerated

At this time, we do not plan to pursue a broad adjunctive MDD indication

SDS = Sheehan Disability Scale; KSS = Karolinska Sleepiness Scale; SCOPA-GS = Scales for Outcomes in Parkinson's disease – Global Sleep

\*An 8-week, open-label, single-arm phase 2 study evaluating the efficacy and safety of pimavanserin as an adjunct to SSRI/SNRI or as monotherapy in adults with both Parkinson's disease and depression. Pimavanserin (NUPLAZID®) is only approved in the U.S. by the FDA for the treatment of hallucinations and delusions associated with Parkinson's disease psychosis.

Provided July 20, 2020 as part of an oral presentation and is qualified by such; contains forward-looking statements; actual results may vary materially; ACADIA disclaims any duty to update.

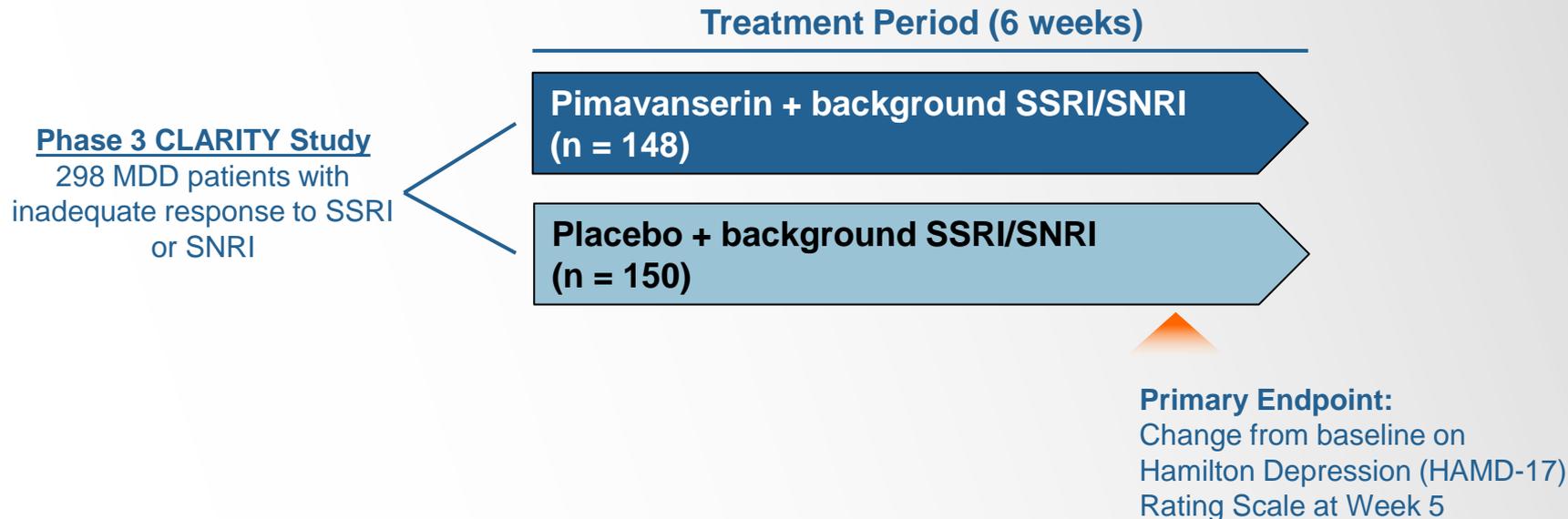
# Phase 3 CLARITY Results

---

Serge Stankovic, M.D., M.S.P.H.  
President

# Phase 3 (CLARITY-2 and CLARITY-3) Study Design

6-Week, Randomized, Double-blind, Placebo-controlled Multi-center Study:

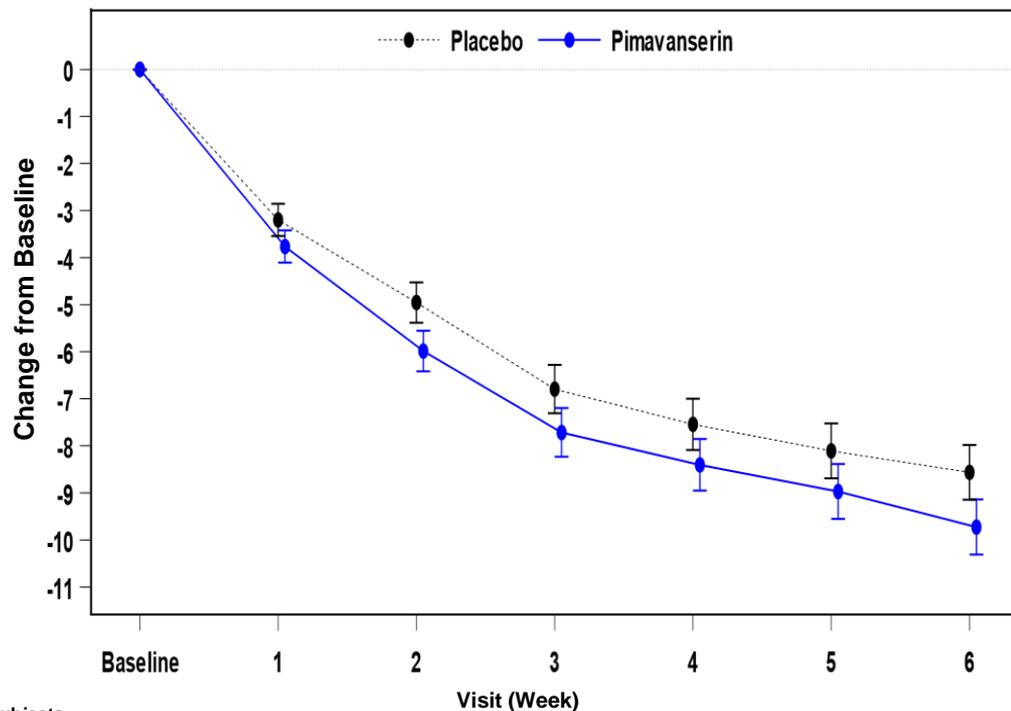


# Demographics and Baseline Characteristics

## (Randomized Analysis Set)

	Placebo (n=150)	Pimavanserin (n=148)	Total (n=298)
Age (years)	44.5	47.2	45.8
Sex, Female (%)	74.7	64.9	69.8
Age at MDD Diagnosis (years)	32.7	34.2	33.5
Duration of Current Episode of Depression (months)	18.4	17.3	17.8
MADRS Total Score	32.5	32.4	32.4
HAMD-17 Total Score	22.7	23.1	22.9
CGI-S Score	4.8	4.9	4.8

# Primary Endpoint: 17-Item Hamilton Depression Rating Scale (HAM-D-17) (Full Analysis Set)



**HAM-D-17 at Week 5**  
LSM (SE)

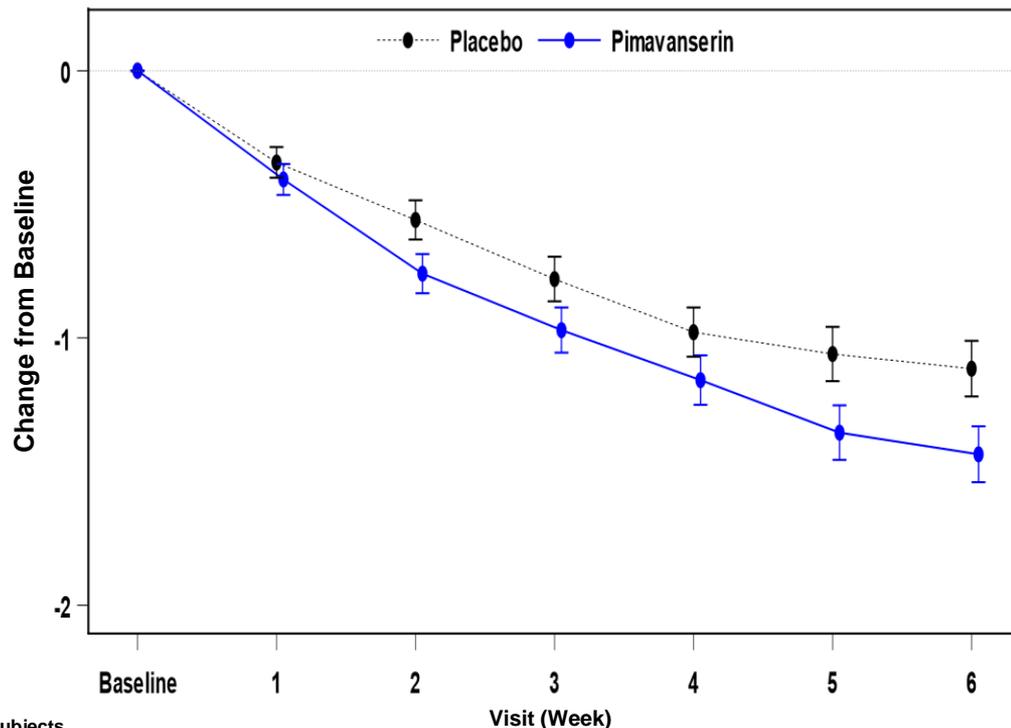
Pimavanserin: -9.0 (0.58)  
Placebo: -8.1 (0.58)

*p-value = 0.296*

No. of subjects

Placebo	149	146	142	141	138	135	131
Pimavanserin	148	144	140	141	139	138	129

# Key Secondary Endpoint: Clinical Global Impression – Severity (CGI-S) (Full Analysis Set)



## CGI-S at Week 5

LSM (SE)

Pimavanserin: -1.4 (0.10)

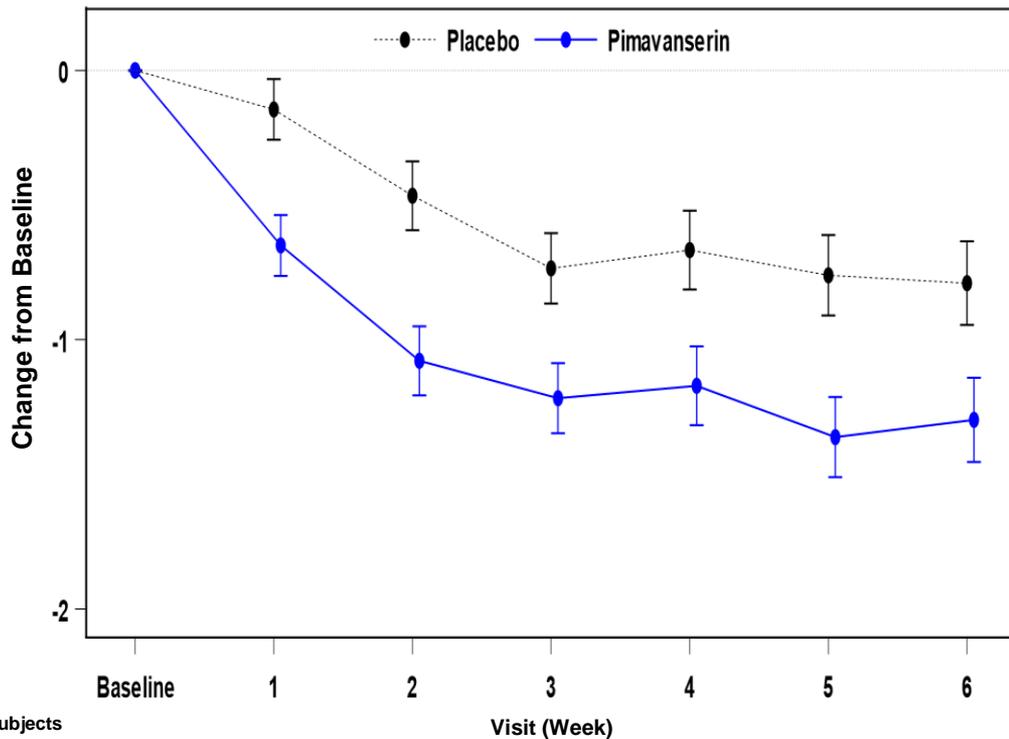
Placebo: -1.1 (0.10)

*nominal p-value = 0.042*

No. of subjects

	Baseline	1	2	3	4	5	6
Placebo	149	146	142	142	138	135	131
Pimavanserin	148	144	140	141	139	138	129

# Secondary Endpoint: Karolinska Sleepiness Scale (KSS) (Full Analysis Set)



## KSS at Week 5

LSM (SE)

Pimavanserin: -1.4 (0.15)

Placebo: -0.8 (0.15)

*nominal p-value = 0.005*

Clinically meaningful separation not achieved on other secondary endpoints

No. of subjects

	Baseline	1	2	3	4	5	6
Placebo	149	146	141	140	137	134	130
Pimavanserin	148	144	140	141	139	138	129

# Summary of Adverse Events

Safety Analysis Set	Phase 3 CLARITY	
	Placebo (n=150)	Pimavanserin (n=148)
Any Patient w/ Adverse Event (AE)	82 (54.7%)	86 (58.1%)
Any Serious Adverse Event (SAE)	2 (1.3%)	2 (1.4%)
Any AEs leading to Discontinuation or Study Termination	4 (2.7%)	4 (2.7%)
Completed the Study	135 (90.0%)	135 (91.2%)
<b>Most Common AEs (&gt;5% in any group)</b>		
Diarrhea	4 (2.7%)	12 (8.1%)
Dry mouth	4 (2.7%)	11 (7.4%)
Nasopharyngitis	9 (6.0%)	5 (3.4%)
Headache	27 (18.0%)	31 (20.9%)

No clinically significant differences in vital signs, metabolic parameters nor extrapyramidal symptoms were observed in the pimavanserin group compared to placebo

# Summary

---

## **FDA accepts sNDA for dementia-related psychosis for filing:**

- FDA has not identified any potential review issues at this point in their evaluation
- FDA is not currently planning to hold an Advisory Committee meeting
- PDUFA Date: April 3, 2021

## **Phase 3 CLARITY results in adjunctive MDD:**

- The study did not achieve statistical significance on the primary endpoint
- Observed consistent improvement of depressive symptoms at all time points compared to placebo
- Positive improvements observed on disease severity and daytime wakefulness\*
- Pimavanserin was well-tolerated in the study

# Closing Remarks

---

Steve Davis  
CEO

# Building a Leading CNS Platform



**DRIVE NUPLAZID®  
GROWTH  
IN PDP**

**DELIVER DRP  
OPPORTUNITY  
TO THE MARKET**

**DEVELOP INNOVATIVE  
TREATMENTS  
FOR UNMET NEEDS**



# Q&A

JULY 20, 2020

