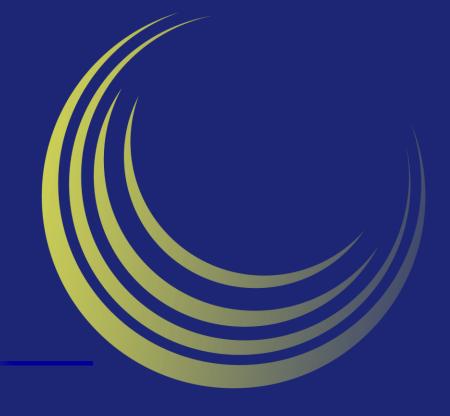
Supernus Pharmaceuticals



Investor Presentation

June 2016



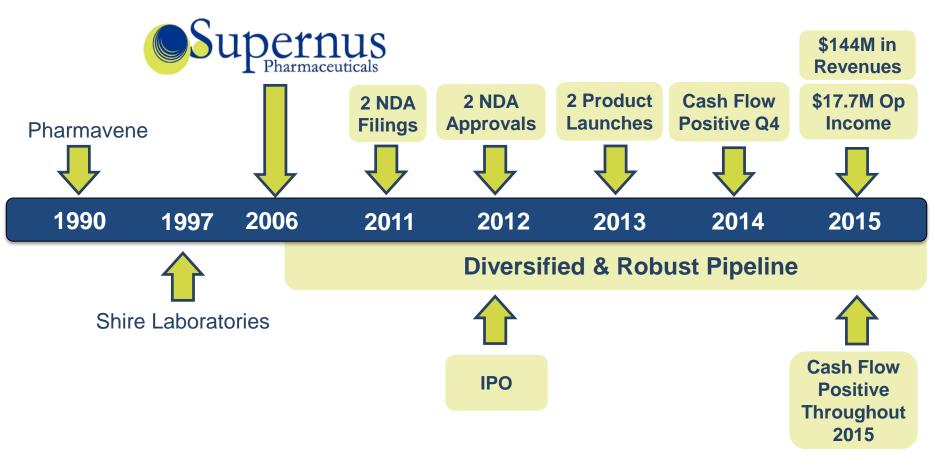
Safe Harbor Statement

This presentation and other matters discussed today or answers that may be given to questions asked include forward-looking statements within the meaning of the federal securities laws. These statements, among other things, relate to Supernus' business strategy, goals and expectations concerning its product candidates, future operations, prospects, plans and objectives of management. The words "anticipate", "believe", could", "estimate", "expect", "intend", "may", "plan", "predict", "project", "will", and similar terms and phrases are used to identify forward-looking statements in this presentation. Supernus' operations involve risks and uncertainties, many of which are outside its control, and any one of which, or a combination of which, could materially affect its results of operations and whether the forward-looking statements ultimately prove to be correct. Supernus assumes no obligation to update any forward-looking statements except as required by applicable law.

Supernus has filed with the U.S. Securities and Exchange Commission (SEC) reports and other documents required by Section 13 or 15(d) of the Securities Exchange Act of 1934, as amended. Before you purchase any Supernus securities, you should read such reports and other documents to obtain more complete information about the company's operations and business and the risks and uncertainties that it faces in implementing its business plan. You may get these documents for free by visiting EDGAR on the SEC website at http://www.sec.gov.



Background





Proven Execution Nine Marketed Products Using Our Technologies

Supernus®



2009

2013

2014









1998





















Strong Portfolio of CNS Products

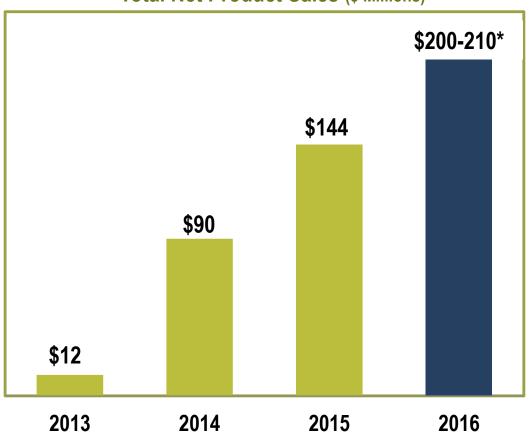
Product	Indication	Development	NDA	Launch
Oxtellar XR®	Epilepsy			February 2013
Trokendi XR®	Epilepsy			August 2013
Trokendi XR®	Migraine		PDUFA 3Q 16	
SPN-810	Impulsive Aggression		Phase III	
SPN-812	ADHD		Phase IIb	
SPN-809	Depression		IND/Phase II Ready	



Strong Sales Growth

- 25-year track record
- IPO in 2012
- Robust net product sales growth since launch

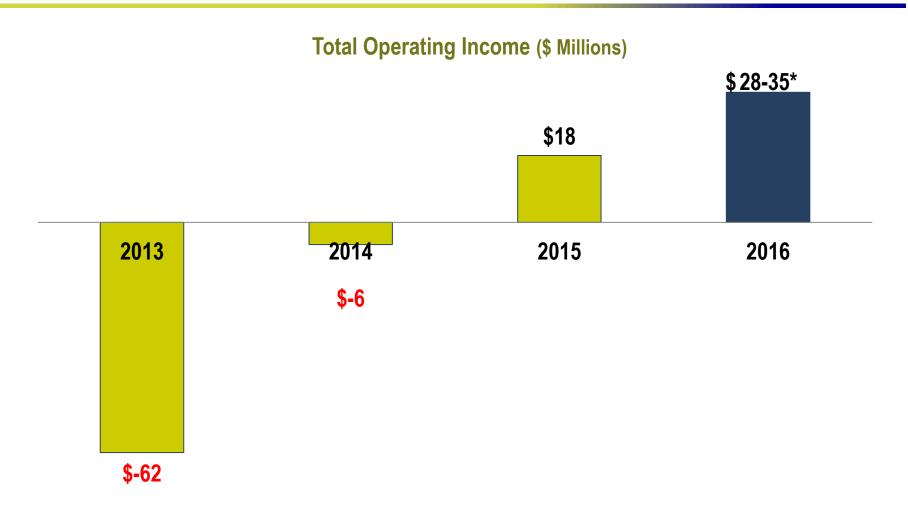
Total Net Product Sales (\$ Millions)



^{*} Guidance as provided on May 3, 2016 which has not been updated © 2015 Supernus Pharmaceuticals, Inc. All Rights Reserved.



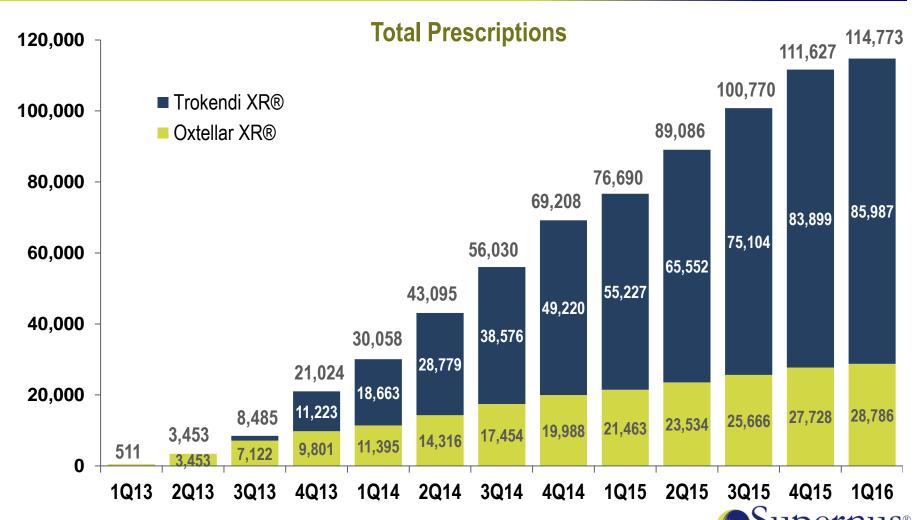
Profitable CNS Pharma





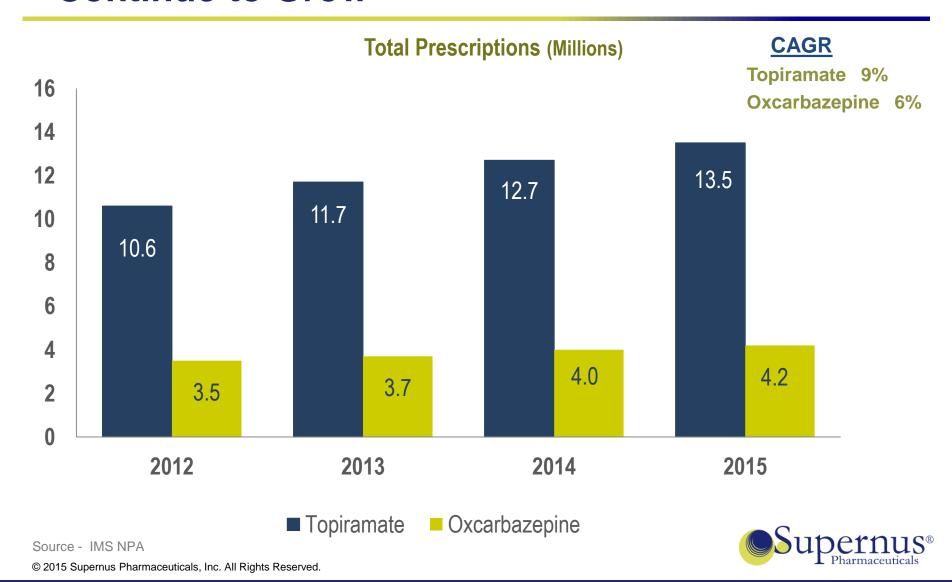


Two Successful Product Launches

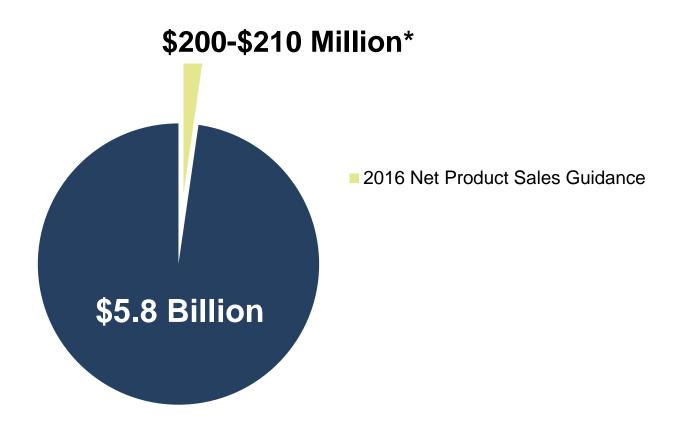


Source: IMS Monthly Prescriptions

Topiramate and Oxcarbazepine Markets Continue to Grow



Combined Market Potential of \$5.8 Billion for Oxtellar XR[®] & Trokendi XR[®]



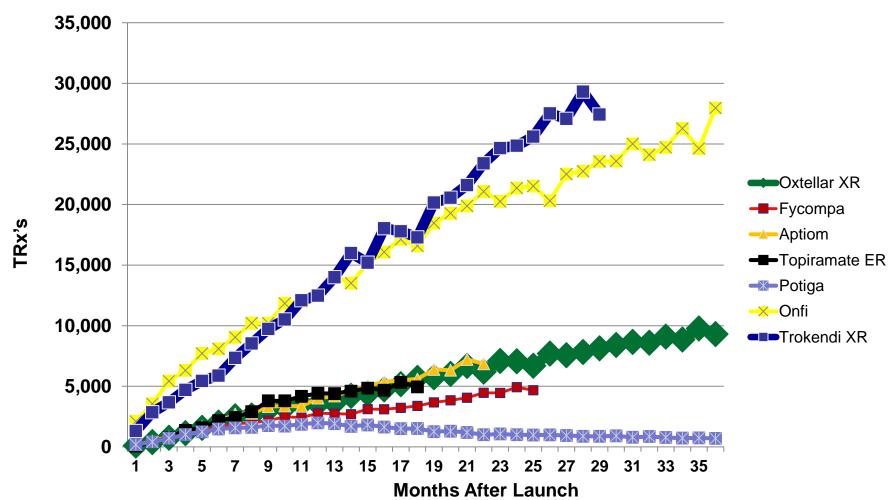
^{*} Guidance as provided on May 3, 2016 which has not been updated





Trokendi XR®

The Most Successful AED Launch Since 2010



Launch Dates – Onfi 1/12, Potiga 5/12, Fycompa 1/14, Aptiom 4/14, Oxtellar XR 2/13, Trokendi XR 9/13, Topiramate XR 7/14

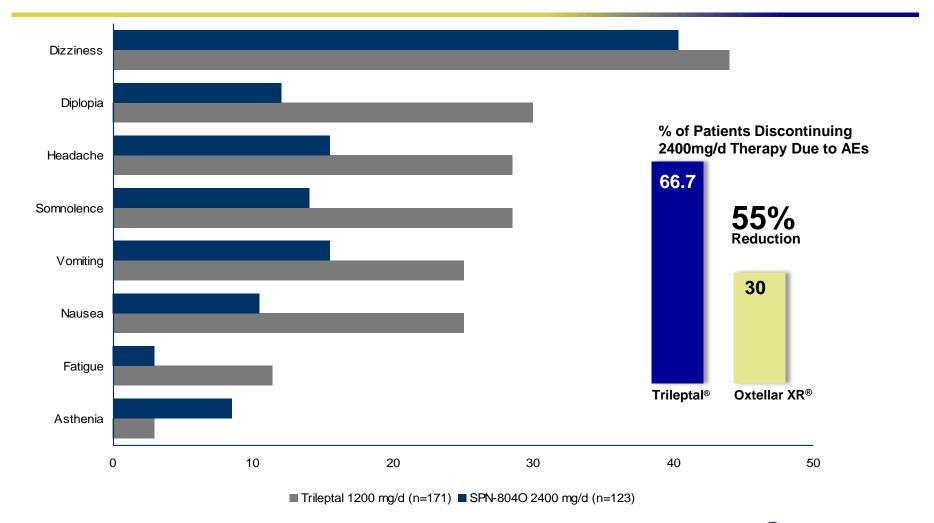
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Source - IMS NPA



Oxtellar XR®

Improved AE Profile at Double the Dose of Trileptal®



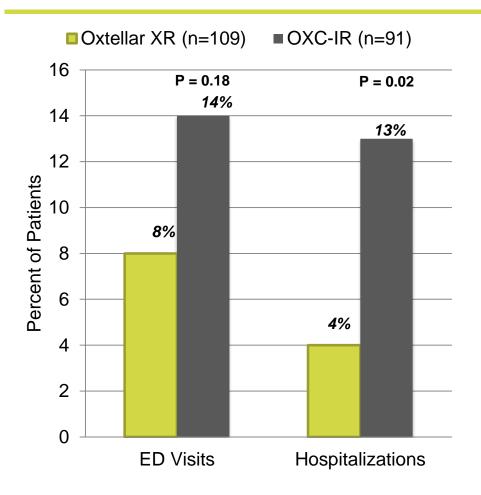
Based on comparison of Oxtellar XR (SPN-804O) Phase III vs. Trileptal PI (adjunctive therapy study in adults); differences in trial design exist between the two studies. Dizziness includes vertigo in Trileptal group because of change in the MedDRA system

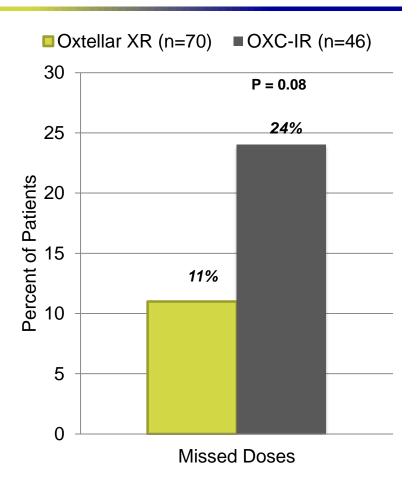


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Oxtellar XR®

More Favorable Clinical Outcomes & Greater Adherence Compared to OXC-IR¹





¹O'Neal W, et al., Adherence and Resource Utilization with Extended-Release Oxtellar XR® or Immediate-Release Oxcarbazepine (OXC-IR) Treatment in Clinical Practice: A Standardized Case Record Review. Neurology 2015;84 (P1.244)



Psychiatry Pipeline



SPN-810 & SPN-812



SPN-810: Overview of Aggression

Adaptive Aggression

- "Appropriate"
- Serves identifiable goals
- Brain structure and / or function not impaired
- Does not require mental health research or treatment

Maladaptive Aggression

- "Excessive" or "Inappropriate"
- Does not serve identifiable goals
- Brain structure and / or function impaired
- May require psychiatric and pharmacological treatment



Understanding Impulsive Aggression (IA)

- IA is a subtype of Maladaptive Aggression
- Impulsivity can be defined neurobiologically
 - Short fuse that causes impairment in self-control
- IA occurs across multiple disorders including
 - ADHD, autism, bipolar disorder, schizophrenia, Alzheimer's,
 PTSD and disorders of traumatic stress



SPN-810: Novel Product for IA



Granted Fast Track Development Designation

Market Opportunity
+\$5.5B

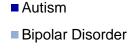
1st

Expected to be first product approved to treat IA

2016 Two ongoing Phase III trials

Phase III data, mid-2017





ADHD



SPN-810 Market Opportunity for IA in ADHD

	Percent	Projected 2019 Prescriptions
ADHD Market Prescriptions		75.6 Million
Child and Adolescent ADHD Prescriptions Child Psychiatrists, Child Neurologists, Psychiatrists, and Top Pediatrician Deciles*		19.2 Million
Prevalence of Impulsive Aggression	22.5 - 32%	4.3 – 6.1 Million
	Peak Market Share	SPN-810 Potential Prescriptions
SPN-810 Peak Demand	16 - 20%	0.7 – 1.2 Million**

SPN-810 Market Sizing and Demand Study; April 2015; *Assumes prevalence and demand from quantitative research is applicable to high ADHD pediatrician prescribers

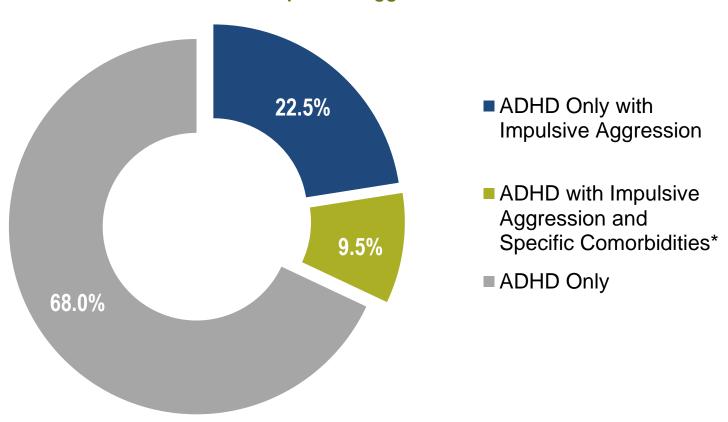
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^{**} Using 2019 market projections; assumes peak 3-5 years post-launch

Prevalence of Impulsive Aggression in Addressable ADHD Population is 22.5–32%

Prevalence of Impulsive Aggression in Children



SPN-810 Market Sizing and Demand Study; April 2015; *Specific co-morbidities: autism, epilepsy, IQ<70, neurological disorders, bipolar disorder, schizophrenia



Additional Market Opportunities in Autism & Bipolar

Primary Diagnosis	Prevalence of Impulsive Aggression in Children and Adolescents	Projected 2019 Prescriptions
Autism	≈ 45%	1.6 Million
Bipolar Disorder	≈66%	2.7 Million
	Peak Market Share	SPN-810 Potential Prescriptions
SPN-810 Peak Demand in Autism and Bipolar Disorder	16 – 20%*	0.7 – 0.9 Million

CDC/US Census; IMS; Qualitative Opportunity Assessment Research 2014; * Assumption that quantitative research in ADHD is applicable to Autism and Bipolar Disorder



SPN-810: A Billion Dollar Product for Supernus

Potential Gross Revenue

ADHD

Autism and Bipolar Disorder

Total at Peak

\$400-\$700 Million

\$400-\$500 Million

\$800-\$1,200 Million



Other Impulsive Aggression Opportunities:

Schizophrenia, Alzheimer's, Oppositional Defiant Disorder, etc.

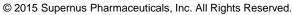


SPN-810 Phase IIb Study Demonstrated Proof of Concept in IA in ADHD Patients

- Extended release molindone
- Randomized, double-blind, placebo-controlled, multicenter
- 6–12 year old patients with IA co-morbid with ADHD
- Primary endpoint: change from baseline to endpoint (Visit 10) in R-MOAS* ratings.
- Optional six-month open-label extension

	Children < 30 kg (mg/day)	Children ≥ 30 kg (mg/day)
Low Dose	12	18
Medium Dose	24	36
High Dose	36	54

^{*} Retrospective modified overt aggression scale

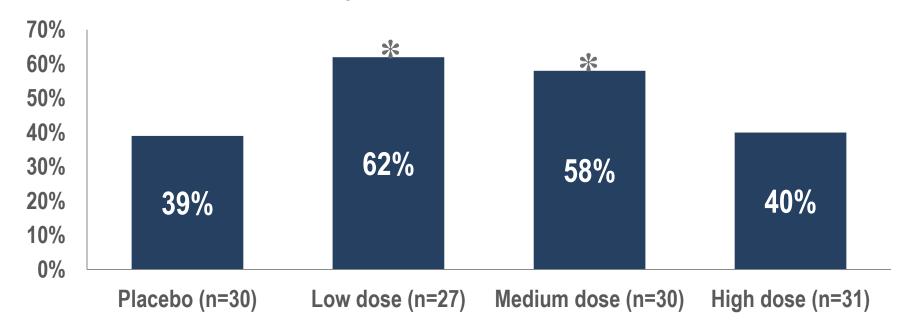


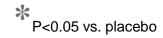


SPN-810: Greater Improvement from Baseline¹

Primary Endpoint: Change from Baseline at Visit 10 in R-MOAS# Score LOCF, ITT Population

Improvement vs. Baseline







[#] Retrospective modified overt aggression scale

¹ Primary Endpoint based on FDA input

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SPN-810: Improved Remission Rate at End of Study¹

R-MOAS	Placebo (n=30)	Low Dose (n=27)	Medium Dose (n=30)	High Dose (n=31)
Subjects Remitted	6 (20%)	14 (52%)	12 (40%)	10 (32%)
P-value for Remission Rate		0.009	0.043	0.276

P significant at p < 0.05

Remission: RMOAS≤10



¹ Primary Endpoint before FDA input

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SPN-810 Was Well-Tolerated

Most Common Adverse Events* (Reported by ≥ 5% of Subjects in one or more treatment groups)	Placebo (n=31) N (%)	All Treatment (n=90) N (%)
Headache	4 (13%)	9 (10%)
Sedation	2 (7%)	8 (9%)
Somnolence	1 (3%)	2 (2%)
Abdominal Pain	1 (3%)	5 (6%)
Increased Appetite	1 (3%)	7 (8%)
Decreased Appetite	0	5 (6%)
Fatigue	0	3(3%)
Abnormal Weight Gain	0	1 (1%)
Extrapyramidal Symptoms (EPS)		
Dystonia	0 (0)	2 (2%) [Severe]
Akathisia	1 (3.2%) [Mild]	0 (0)
Dyskinesia	0 (0)	1 (1%) [Moderate]

^{*}There is no statistically significant difference in the rate of incidence of AEs between the placebo arm and all active treatment groups combined



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SPN-812: Novel Non-Stimulant ADHD Product



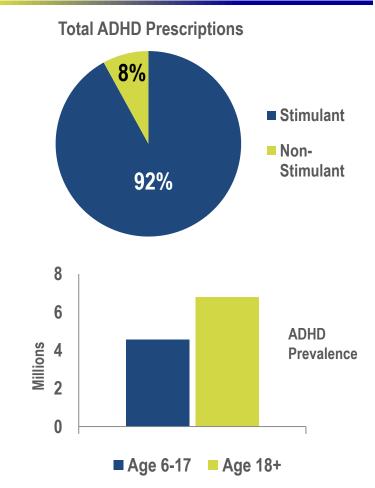
Market Opportunity \$2.5B



Demonstrated efficacy in Phase IIa in ADHD

2016 Ongoing Phase IIb trial

Phase IIb data, early 2017



ADHD Prescriptions per SHA TRx data, December 2014
Centers for Disease Control "Trends in the Parent-Report of Health Care Provider-Diagnosed and Medicated ADHD: United States, 2003–2011; WebMD; Datamonitor



Financial Summary and Guidance

First Quarter 2016 Financial Results

- Net product sales of \$43.0 million, up 53.1% over prior year
- Operating income of \$5.3 million, up 55.0% over prior year
- Diluted EPS of \$0.08, compared to \$0.02 prior year
- March 31, 2016 balance for cash, cash equivalents, marketable and long term marketable securities of \$114.0 million

Full Year 2016 Financial Guidance¹

- Net product sales: \$200 million \$210 million
- Operating income: \$28 million \$35 million
 - ➤ R&D expenses: \$55 million \$65 million



¹Guidance as provided on May 3, 2016 which has not been updated.

Positioned for Continued Success



Maximize Growth & Profitability

>\$500 Million in Peak Revenue For Neurology Portfolio

Advance Pipeline Towards Commercialization Strong & Proven R&D Capability

Execute on Strategic Opportunities

