Great Science
Deep Compassion
Real Impact

Richard Pops
Chief Executive Officer

36th Annual J.P. Morgan Healthcare Conference

JANUARY 9, 2018
Forward-Looking Statements and Non-GAAP Financial Information

Certain statements in this presentation constitute “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995, as amended, including, but not limited to, statements concerning future financial and operating performance, business plans or prospects of the company; the continued growth of the long-acting injectable antipsychotic market and the company’s commercial products; improvements to and modernization of the treatment ecosystem for opioid dependence; the timing, funding, results and feasibility of product development activities; whether the studies conducted for ALKS 5461, ALKS 3831 and ALKS 8700 will meet FDA’s requirements for approval and the company’s expectations and timelines for regulatory action by the FDA relating to the NDA submissions for ALN-CD and ALKS 5461; the potential financial benefits that may be achieved under the license and collaboration agreement between the company and Biogen; and the therapeutic value and commercial potential, including blockbuster status, of the company’s products. Although the company believes that such forward-looking statements are based on reasonable assumptions within the bounds of its knowledge of its business and operations, the forward-looking statements are neither promises nor guarantees and they are necessarily subject to a high degree of uncertainty and risk. Actual performance and results may differ materially from those expressed or implied in the forward-looking statements due to risks, assumptions and uncertainties. You are cautioned not to place undue reliance on the forward-looking statements contained herein. The factors that could cause actual results to differ are discussed in the Alkermes plc Annual Report on Form 10-K for the year ended Dec. 31, 2016 and Quarterly Reports on Form 10-Q for the quarters ended Mar. 31, 2017 and Sept. 30, 2017, under the heading “Item 1A. Risk Factors”, and in other subsequent filings made by the company with the U.S. Securities and Exchange Commission (SEC), which are available on the SEC's website at www.sec.gov and on the company’s website at www.alkermes.com in the “Investors—SEC filings” section. Existing and prospective investors are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. Except as required by law, the company disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this presentation.

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This presentation includes information about certain financial measures that are not prepared in accordance with generally accepted accounting principles in the U.S. (GAAP), including non-GAAP net income and non-GAAP net income per share. These non-GAAP measures are not based on any standardized methodology prescribed by GAAP and are not necessarily comparable to similar measures presented by other companies. Reconciliations of these non-GAAP financial measures to the most directly comparable GAAP financial measures can be found in the Alkermes plc Current Reports on Form 8-K filed with the SEC on Oct. 26, 2017 and Nov. 27, 2017.

Note Regarding Trademarks

The company is the owner of various U.S. federal trademark registrations (®) and other trademarks (TM), including ARISTADA® and VIVITROL®. Any other trademarks referred to in this presentation are the property of their respective owners. Appearances of such other trademarks herein should not be construed as any indicator that their respective owners will not assert their rights thereto.
Distinctive CNS focus in psychiatry: Developing innovative, patient-centered treatment options designed to address large, chronic diseases and major public health priorities.

Growing current commercial business: Potential to generate >$2B revenue into the 2020s; VIVITROL® and ARISTADA® growing with long patent lives.

Robust late-stage pipeline with transformative catalysts in 2018: Advancing our pipeline of novel potential blockbusters, driven by world-class research & development.

Strong organization built for scale: Driving value by leveraging solid financial foundation and efficient operating structure.
Transformative Newsflow Expected in 2018

ARISTADA®: Next potential FDA approval
- Aripiprazole Lauroxil NanoCrystal® Dispersion (AL\textsubscript{NCD}) PDUFA June 30

ALKS 5461: NDA submission and potential FDA approval
- NDA submission and anticipated NDA filing acceptance (Q1)
- Potential Advisory Committee meeting and FDA action (H2)

ALKS 3831: Data from second pivotal study
- ENLIGHTEN-2 weight study enrollment completion (Q1)
- Metabolic study data presentation (H1)
- ENLIGHTEN-2 data (Fall)

ALKS 8700: NDA submission
- EVOLVE-MS-2 gastrointestinal head-to-head initial study data (H1)
- NDA submission (H2)

ALKS 4230: Clinical proof-of-concept
- Dose escalation data and dose expansion initiation
Distinctive CNS focus in psychiatry
Targeting Chronic Psychiatric Disorders Where Significant Unmet Patient Needs Remain

Sources:
Substance Abuse and Mental Health Services Administration (SAMHSA). 2016 National Survey on Drug Use and Health (NSDUH)

- 2.0M HAVE OPIOID USE DISORDER
- 2.4M SUFFER FROM SCHIZOPHRENIA
- 11.6M RECEIVE TREATMENT FOR MAJOR DEPRESSIVE DISORDER
- 15.1M HAVE ALCOHOL USE DISORDER

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Mental health and substance use disorders are the leading cause of disease burden in the U.S.

Age standardized disability adjusted life years (DALYs) rate per 100,000 population, both sexes, 2015

<table>
<thead>
<tr>
<th>Condition</th>
<th>DALYs Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mental health and substance use disorders</td>
<td>3,355</td>
</tr>
<tr>
<td>Cancers and tumors</td>
<td>3,131</td>
</tr>
<tr>
<td>Cardiovascular disease</td>
<td>3,065</td>
</tr>
<tr>
<td>Injuries</td>
<td>2,419</td>
</tr>
<tr>
<td>Musculoskeletal disorders</td>
<td>2,357</td>
</tr>
<tr>
<td>Endocrine (diabetes)</td>
<td>1,827</td>
</tr>
<tr>
<td>Nervous system</td>
<td>1,463</td>
</tr>
<tr>
<td>Chronic respiratory</td>
<td>1,050</td>
</tr>
<tr>
<td>Skin diseases</td>
<td>642</td>
</tr>
<tr>
<td>Sense organ disease</td>
<td>624</td>
</tr>
</tbody>
</table>

Unique Insight and Capabilities Enable New Treatment Approaches for Major CNS Diseases

- World-class science in opioid system modulation
  - Deep biology and chemistry expertise opens new potential opportunities in depression, schizophrenia, addiction and pain

- Advanced formulation and molecular design capabilities intended to address patients’ real-world treatment challenges
  - Integrated co-formulations, innovative prodrugs, long-acting injectables
  - Designed for efficacy, ease-of-use and tolerability in chronic conditions

- Expertise in large-scale clinical development in challenging indications and populations
  - Global capabilities focused on high-quality clinical trial sites, investigators, study designs and execution
Growing current commercial business
VIVITROL® for Opioid and Alcohol Dependence

VIVITROL® (naltrexone for extended-release injectable suspension)

Unique indication
- Only therapy approved for prevention of relapse to opioid dependence, following opioid detoxification
- Approved for treatment of alcohol dependence

Long-acting
- Therapeutic levels of naltrexone for a one-month period
- Reduces craving

Expanding body of clinical data
- Tanum: JAMA Psych
- X:BOT: Lancet
- Induction strategies

Well-suited for criminal justice
- Non-addictive
- No abuse potential
- Not associated with diversion

VIVITROL is 1 of 3 FDA-approved treatment options for opioid dependence
Opioid Epidemic Continues to Rage Nationwide

In 2016...

11.5M people misused prescription opioids

2.0M people reported having Opioid Use Disorder

50K people died from opioid overdose

Fentanyl deaths increased 530% in three years

Opioid overdose deaths driving down U.S. life expectancy for 2nd year in a row

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1. National Institute on Drug Abuse and Centers for Disease Control and Prevention. 2016 numbers are preliminary estimates. Opioids include opioid painkillers, fentanyl and other synthetic opioids (excl. methadone), and heroin
2. Substance Abuse and Mental Health Services Administration (SAMHSA). 2016 National Survey on Drug Use and Health (NSDUH)

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VIVITROL®: Expanding Accessibility, Awareness and Use

**Accessibility:** Developing state and local ecosystems that encompass access and reimbursement, policy and treatment providers

**Awareness:** Educating healthcare providers, public health officials, policymakers and employers:

- Implementation of CARA¹ and 21st Century Cures funding provide opportunity to modernize treatment system
- Expanding footprint of state programs: >560 programs in 40 states

**Use:** Room for growth with <4% market share in opioid dependence

- Concentrated prescribing: Top 5 states represent ~50% of net sales

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1. Comprehensive Addiction and Recovery Act
* Reflects midpoint of 2017 guidance, provided in the Current Reports on Form 8-K filed with the SEC on Oct. 26, 2017 and Nov. 27, 2017

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ARISTADA®
aripiprazole lauroxil
extended-release injectable suspension
441mg • 662mg • 882mg • 1064mg
ARISTADA®: Long-Acting Injectable for Treatment of Schizophrenia

Proven efficacy and safety
- Robust clinical evidence of antipsychotic efficacy and safety

Flexibility and product features
- Four approved doses
- Prefilled syringe
- Non-refrigerated
- Gluteal/deltoid

 Durations
- AL_{NCD} initiation*
- Monthly
- Six-week
- Two-month

* Aripiprazole Lauroxil NanoCrystal® Dispersion (AL_{NCD}) is under FDA review with PDUFA date of June 30, 2018
New treatment regimen designed to replace need for concomitant three weeks of oral aripiprazole for initiation onto ARISTADA

ARISTADA product family is designed to address the real-world needs of patients and providers in the community

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### ARISTADA®: Differentiated Features Drive Adoption in Long-Acting Antipsychotic Market

- $2.3B long-acting atypical antipsychotic U.S. market*
- Growing ~20% 5-year CAGR*
- Potential to be $3-5B+ U.S. market in 2020

<table>
<thead>
<tr>
<th>Molecule</th>
<th>Product Presentation</th>
<th>Duration(s)</th>
<th>Initiation Requirements</th>
<th>Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RISPERDAL CONSTA®</strong></td>
<td>Reconstituted</td>
<td>Two-week</td>
<td>2 weeks daily oral</td>
<td>3 main doses**</td>
</tr>
<tr>
<td><strong>ABILIFY MAINTENA®</strong></td>
<td>Reconstituted</td>
<td>One-month</td>
<td>2 weeks daily oral</td>
<td>1 main dose**</td>
</tr>
</tbody>
</table>

**Market Growth Drivers**

<table>
<thead>
<tr>
<th><strong>INVEGA SUSTENNA®</strong></th>
<th><strong>ARISTADA®</strong></th>
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<tbody>
<tr>
<td>Paliperidone</td>
<td>Arippiprazole Lauroxil</td>
</tr>
<tr>
<td>Ready-to-use</td>
<td>Ready-to-use</td>
</tr>
<tr>
<td>One-month and three-month†</td>
<td>One-month, six-week and two-month</td>
</tr>
<tr>
<td>2 loading-dose injections</td>
<td>3 weeks daily oral; ALNCD††</td>
</tr>
<tr>
<td>5 doses</td>
<td>4 doses</td>
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</table>

* Johnson & Johnson, Otsuka, Lundbeck and Alkermes quarterly reports
** Excluding low doses for poor metabolizers
† U.S. net sales increased $171.0M and $35.4M for INVEGA SUSTENNA/TRINZA® and ARISTADA, respectively, for the 9-months ended 9/30/17 vs. 9/30/16
†† INVEGA TRINZA® three-month dose
†† PDUFA June 30, 2018
Expanding differentiating features and data to drive broad uptake
- AL<sub>NCD</sub> initiation product PDUFA date of June 30, 2018
- Study comparing ARISTADA and INVEGA SUSTENNA® initiated Q4 2017

Expanding commercial presence in hospital setting in 2018

Collaborating with policymakers and industry peers to improve treatment system for serious mental illness

Annual growth 99%* compared to 2016

*Reflects midpoint of Q4 2017 guidance, provided on Q3 2017 financial results conference call on Oct. 26, 2017
Robust late-stage pipeline with transformative catalysts in 2018
## Rapidly Advancing Late-Stage Pipeline

<table>
<thead>
<tr>
<th>DEVELOPMENT CANDIDATES</th>
<th>PRECLINICAL</th>
<th>PHASE 1</th>
<th>PHASE 2</th>
<th>PHASE 3</th>
<th>REGISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aripiprazole Lauroxil&lt;sub&gt;NCD&lt;/sub&gt; (ARISTADA® Initiation Product)</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>ALKS 5461 (Major Depressive Disorder)</td>
<td></td>
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<td></td>
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<tr>
<td>ALKS 3831 (Schizophrenia)</td>
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<tr>
<td>ALKS 8700 (Multiple Sclerosis)</td>
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<td></td>
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<tr>
<td>ALKS 4230 (Immuno-oncology)</td>
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</tbody>
</table>
Innovative opioid system modulator
- Administered once daily as a single, sublingual tablet
- Initial indication: Adjunctive treatment of MDD in patients with inadequate response to standard antidepressant therapy

First potential new treatment option with differentiated MOA in 30 years
- Designed to address compelling unmet needs of patients and clinicians

Drug-Treated MDD Patients in U.S.\(^1,2\)

2. Decision Resources 2016
Dysfunctional signaling in endogenous opioid system occurs in patients with MDD

Strong scientific rationale supporting opioid pathway as therapeutic target

Achieving antidepressant effect may involve appropriate modulation of multiple opioid receptors

ALKS 5461: Preparing for Expected Regulatory Approval and Launch

- NDA rolling submission expected to complete January 2018
  - Comprehensive registration package includes data from over 30 clinical studies and more than 1,500 patients

- Consistent efficacy and safety profile

- Publication of data and comprehensive scientific education throughout 2018

- Launch preparations underway
  - Planned hiring of senior sales leadership and field sales force in mid-2018 (~200 reps)
  - Oral solid dose manufacturing capacity established and on-line in Wilmington, OH
**ALKS 3831 for Schizophrenia**

- Novel, oral, investigational antipsychotic designed to offer robust efficacy with a favorable weight and metabolic profile
  - Antipsychotic efficacy proven in phase 3 study
  - Beneficial weight effects demonstrated in phase 2 study

- Differentiated mechanism of action
  - ALKS 3831 extends pharmacologic activity of olanzapine to include opioid modulation
  - Central and peripheral effects on metabolism and weight gain

### Statistics

- **2.4M** suffer from schizophrenia¹
- **14.5M** atypical antipsychotic TRx for schizophrenia²
- **19%** olanzapine schizophrenia market share²

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2. IMS NPA Audit MAT September 2017, Encuity Treatment Answers 2010-2014
**ALKS 3831: Straightforward Phase 3 Program Completing in 2018**

### Four-Week Efficacy Study
- Antipsychotic efficacy vs. placebo
- 403 patients with acute schizophrenia
- ALKS 3831 demonstrated statistically significant reductions from baseline in PANSS scores, compared to placebo \((p<0.001)\)
- Olanzapine achieved similar improvements from baseline PANSS scores, compared to placebo \((p=0.004)\)

### Six-Month Weight Study
- Weight change vs. olanzapine in 540 patients with stable schizophrenia
- Co-primary endpoints
  - Percent change from baseline in body weight
  - Proportion of subjects with \(|= 10\%\) weight gain
- Enrollment nearly complete
- Data expected Fall 2018

**NDA submission planned in H1 2019**
Novel, oral, twice-daily, investigational molecule designed to metabolize into monomethyl fumarate (MMF) with differentiated features vs. TECFIDERA®

- Potential for improved gastrointestinal tolerability
- Administered in advanced oral, micro pellet, controlled-release dosage form
- Composition of matter patent extends into 2033

Planned NDA submission in H2 2018

**Biogen License and Collaboration Agreement**

- Announced Q4 2017
- Granted Biogen an exclusive, worldwide license to commercialize ALKS 8700
- Aligning interests and driving long-term value:
  - Mid-teens percentage royalty to Alkermes on worldwide net sales
  - Clinical and regulatory milestones of up to $200M
  - Biogen responsible for development expenses (as of 1/1/18)
ALKS 8700: Clinical Program Designed to Reveal Differentiating Features

Streamlined regulatory pathway – 505(b)(2)

- PK bridging studies to confirm bioequivalence to TECFIDERA®
- Long-term safety study exposure requirements
  - Completing clin/pharm studies

Elective head-to-head GI tolerability study underway

- Designed to demonstrate differentiated GI tolerability compared to TECFIDERA, initial data in H1 2018

Initial data from open-label safety study presented at ECTRIMS 2017

Patients, n (%)

<table>
<thead>
<tr>
<th>Months 0 - 1 after treatment initiation (n=580)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Discontinuations due to GI AEs</td>
<td>3 (0.5)</td>
<td></td>
</tr>
<tr>
<td>Serious GI AEs</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Most common TEAEs (&gt;5% of patients)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flushing</td>
<td>184 (31.7)</td>
<td></td>
</tr>
<tr>
<td>Pruritus</td>
<td>43 (7.4)</td>
<td></td>
</tr>
<tr>
<td>Diarrhea</td>
<td>38 (6.6)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Months 0–3 after treatment initiation (n=574)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Deaths</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Serious AEs</td>
<td>13 (2.3)</td>
<td></td>
</tr>
<tr>
<td>Discontinuations due to AEs</td>
<td>21 (3.7)</td>
<td></td>
</tr>
</tbody>
</table>

Preliminary data from safety population as of July 27, 2017; study recruitment is ongoing.

AE, adverse event; GI, gastrointestinal; TEAE, treatment-emergent AE.
Strong organization built for scale
Four Pillars Approach to Drug Development Reflected Alkermes’ Mission

**Science:** World-class R&D at the bench and in the clinic

**People Affected:** Patients, their caregivers, families and communities

**Policy:** To assure access in complex government and private systems

**Economics:** Pricing to deliver value in large chronic markets
Growing business with significant revenues and operational leverage

Revenue growth driven by proprietary commercial products
- Base business with potential to grow to >$2B into 2020s
- Next phase of growth identified with late-stage pipeline assets

Strong balance sheet with >$560M cash & investments
(as of 9/30/17)

<table>
<thead>
<tr>
<th>(in millions, except per share amounts)</th>
<th>2017 Select Financial Expectations†</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues</td>
<td>$870 – 900</td>
</tr>
<tr>
<td>GAAP Net Loss</td>
<td>$(140) – (170)</td>
</tr>
<tr>
<td>Non-GAAP Net Income‡</td>
<td>$5 – 35</td>
</tr>
<tr>
<td>GAAP Loss Per Share</td>
<td>$(0.91) – (1.10)</td>
</tr>
<tr>
<td>Non-GAAP Net Income Per Share (Diluted)</td>
<td>$0.03 – 0.22</td>
</tr>
</tbody>
</table>

† This financial guidance, provided by Alkermes plc in its Current Report on Form 8-K filed with the SEC on Nov. 27, 2017, is effective only as of such date. The company expressly disclaims any obligation to update or reaffirm guidance, and this presentation is not a reaffirmation or update of previously provided historical guidance. The company only provides guidance in a Regulation FD compliant manner.

‡ Non-GAAP net income adjusts for one-time and non-cash charges by excluding from GAAP results: share-based compensation expense; amortization; depreciation; non-cash net interest expense; certain other one-time or non-cash items; and the income tax effect of these reconciling items.