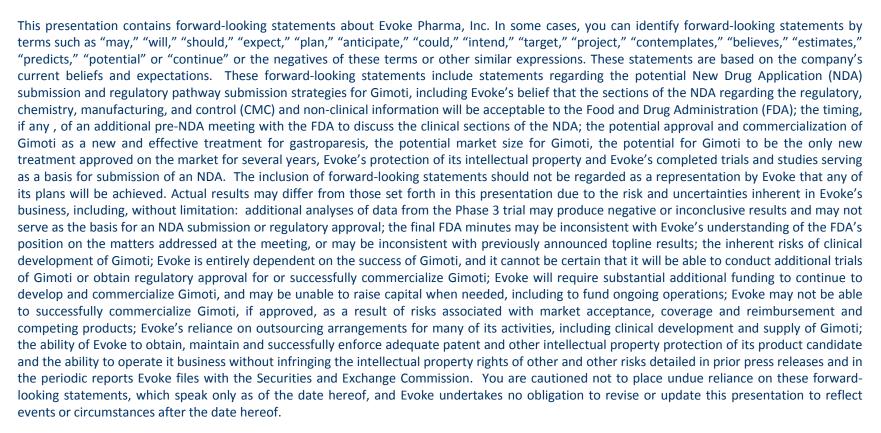


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September 2016

Forward-Looking Statements



All forward-looking statements are qualified in their entirety by this cautionary statement. This caution is made under the safe harbor provisions of Section 21E of the Private Securities Litigation Reform Act of 1995 and Section 27A of the Securities Act of 1933, as amended. Information included herein is based on clinical data Evoke has received to date and its evaluation of such data. All conclusions contained herein are subject to and contingent upon additional clinical data being generated by Evoke as well as the evaluation of such data by the FDA and other regulatory agencies.



Investment Highlights



Product	 Gimoti™ (previously EVK-001): novel nasal delivery of metoclopramide Symptomatic relief of acute and recurrent diabetic gastroparesis in women
Differentiation versus oral medications	 Predictable absorption despite delayed and erratic stomach emptying Absorption not affected by vomiting
Large, Growing and Unsatisfied Market	 12-16 million gastroparesis patients in US of which 80% are women Only 1 FDA-approved product; metoclopramide (oral & IV) with ~4 million prescriptions written each year for oral metoclopramide
Clinical and Regulatory Pathway	 EOP2 Meeting direction and July 2015 FDA Guidance Phase 3 results did not meet primary endpoint for intent-to-treat (ITT) Ongoing clinical data analysis to identify optimal 505(b)(2) NDA path Positive Pre-NDA meeting held in August to discuss Regulatory, CMC, and Non-Clinical sections of NDA Preparing for Pre-NDA meeting to discuss Clinical sections of the NDA



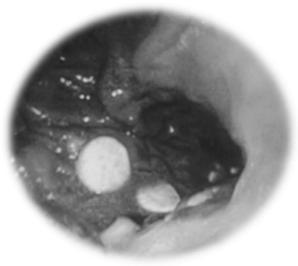
Gastroparesis Overview

Unpredictable and Difficult to Treat



Severity of disease state can lead to malnourishment and hospitalization

Undissolved drug tablets in a stomach



Simpson, S.E., Clinical Toxicology, 2011

- Disorder in which the stomach is delayed in emptying contents to small intestine (in the absence of an obstruction)
- Interferes with GI absorption of medications and food due to unpredictable gastric emptying and vomiting
- Characteristic symptom flares of: nausea, abdominal pain, early satiety, bloating, prolonged fullness, and vomiting

Impact on patients

- Diminished Quality of Life; Malnourishment; Poor diabetes control
- Hospitalization (on average 6+ days)*

* Wang, YM. Am J of Gastroenterol 2008; 103:313-322

Large and Growing Market



Estimated total \$3-4B prescription market for Gastroparesis with \$3.5B in additional hospitalization costs in 2004



- ~2-3 million patients currently receive treatment
- Under-diagnosed in part due to lack of awareness
- Diabetes is the number one known cause
- Increasing prevalence due to growing diabetes rate
- 80% of all patients affected are women

• Wang, Parkman. "Gastroparesis Related Hospitalizations in the United States: Trends, Characteristics and Outcomes 1995-2004" AMJ Gastroenterol 2008; 103:313-322

- Samsom M, Roelofs J. "Prevalence of Delayed Gastric Emptying in Diabetic Patients and Relationship to Dyspeptic Symptoms." Diabetes Care, Vol. 26, No. 11, Nov. 2003, 3116-3122.
- Hasler WL. Current Gastro Reports 2007;9: 261-2692007;9: 270-279
- Intagliato NI, Koch KL. Current Gastro Reports
- Soykan I, Sivri B, Sarosiek I, Kiernan B, McCallum RW. Demography, clinical characteristics, psychological and abuse profiles, treatment, and long-term follow-up of patients with gastroparesis. *Dig Dis Sci* 1998;43:2398-404.

Unmet Clinical Need



Current treatment options for gastroparesis lack predictable delivery

Motility & Symptoms

- Metoclopramide (1st line)
- Domperidone (not approved by US FDA)

Motility

• Erythromycin (not indicated)

Symptoms

- Odansetron, promethazine
- PPI's
- Narcotics

All oral medications



Ineffective Treatments and Inadequate Response

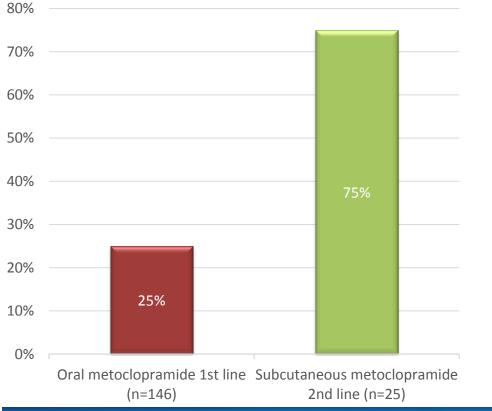
- Erratic absorption of oral drugs* (significant delay, multi-dose dumping) or no absorption due to vomiting
- Unpredictable efficacy and potential safety concerns
- Lack of compliance due to nausea and other GI symptoms

Improved Efficacy with Non-Oral Metoclopramide



Success rate for subcutaneous administration shown to be 3x higher than oral

Gastroparesis treatment success rates by delivery route at a GI motility clinic



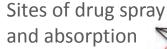
"This [non-oral] route generates a constant plasma level of the metoclopramide when:

- Patients are vomiting
- Unpredictable absorption limits the value of any orally administered agent"

Gimoti: Our Treatment Solution



Novel approach for symptomatic relief of acute and recurrent diabetic gastroparesis in women



Unlike oral medications, nasal delivery bypasses the gastrointestinal tract and directly enters the bloodstream

Gimoti (Nasal Metoclopramide)



Provides predictable absorption regardless of gastric emptying delays; Provides symptom relief even during flares



Clinical Development

Phase 3 Design & Top-Line Results



Trial Design

- US study with design similar to Phase 2b study (concordant to FDA Guidance July 2015)
- Double-blind, placebo-controlled, parallel-group, 28-day study to evaluate the efficacy, safety and population pharmacokinetics in adult female subjects with diabetic gastroparesis and delayed gastric emptying
- Two treatment arms: Gimoti 10 mg or placebo, one spray before each meal and at bedtime
- Primary endpoint: Change in the average GSA total score for baseline versus Week 4 of the treatment period
- 205 subjects completed

Reported Results

- Efficacy: Primary endpoint for the ITT population not statistically significant
 - Confirmed no systemic trial errors occurred; verified data from all sources
- Safety: Gimoti was well-tolerated
 - Similar or fewer adverse events of special interest (CNS, nasal) for Gimoti compared to placebo
 - No Serious Adverse Events (SAE) related to study drug

Phase 2b Efficacy Results



Statistically Significant & Clinically Meaningful Improvement in Women

Summary of Phase 2b Study

- Statistically significant difference between Gimoti and placebo (p<0.02) for the pre-specified analysis group of females (n=203)
- Results not significant for ITT population due to lack of statistical differentiation from placebo in males (n=84)
- A treatment difference of .40 -.50 points is considered a clinically important (absolute) difference for GCSI total scores*

0 Placebo (n=68) -0.2 **---**10 mg (n=65) Mean Total Score Change **---**14 mg (n=70) -0.4 -0.6 -0.8 -1 p=0.024 -1.2 p=0.021 -1.4 Baseline Week 3 Week 4 Week 1 Week 2

Mean mGCSI-DD Total Score Change

from Baseline to Week 4 for Females

Other Considerations

- METO-IN-002 revealed a gender difference not previously detected in smaller gastroparesis studies
- Gender effects have been reported in drug studies for other GI motility disorders, such as IBS, and products approved for women only indications

September 2016

*Revicki et al. (2004) Gastroparesis Cardinal Symptom Index (GCSI): development and validation of a patient reported assessment of severity of gastroparesis symptoms. *Qual Life Res.* 2004;13(4):833-44.

Gimoti Shown to be Well Tolerated in Clinical Trials

	Phase 2			Phase 3	
Adverse Events (AEs) and Serious Adverse Events (SAEs)	Placebo (N=95)	10 mg (N=95)	14 mg (N=95)	Placebo (N=103)	10 mg (N=102)
Nervous System AEs	12%	25%	30%	12%	10%
Respiratory System AEs	8%	13%	18%	12%	7%
- Epistaxis AEs	2%	2%	3%	2%	1%
- Nasal discomfort AEs	0	3%	2%	4%	1%
Serious Adverse Events (n)	4	0	2	2	3

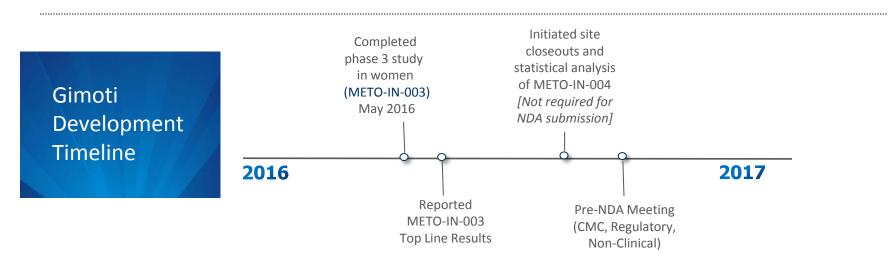
Favorable Safety Profile in Phase 1, 2, 3 and TQT studies

- No deaths, few SAEs and no SAEs related to study drug
- Fewer patients reported AEs in Phase 3 compared to Phase 2
- Dropouts:
 - Phase 2 = 10% (includes 5% due to AE)
 - Phase 3 = 7% (includes 2% due to AE)
- TQT study: No QT prolongation at supratherapeutic dose (80 mg)

Gimoti Regulatory Timeline



- Phase 3 results not meeting primary endpoint for ITT were reported in July 2016
- The FDA granted a Pre-NDA meeting in August to discuss CMC, Regulatory and Non-Clinical sections of NDA
 - Positive feedback on all aspects with acceptable steps for submission
 - No additional Non-Clinical studies requested
 - Limited other data requested
- Evoke to request additional Pre-NDA meeting for clinical (PK, Efficacy, Safety) results





Commercial Opportunity

Compelling Commercial Opportunity



Significant Unmet Need	 Physicians and patients report broad interest in non-oral treatment alternatives to address unpredictable absorption No new therapies for gastroparesis since 1980 	
Ready-made Market	 4 Million prescriptions of oral metoclopramide per year 20-50% of patients use off-label treatments or go untreated 	
Potential for Premium Pricing	 30 national and regional plans indicate limited reimbursement impediments based upon various pricing scenarios 	
Appropriate for Specialty Salesforce	 ~7,200 metoclopramide prescribing gastroenterologists; allows for small, targeted salesforce Significant referrals for diagnosis/treatment from specialists 	a that
Rapid Uptake Possible	 No expected competitive sales force for several years after launch Market research shows rapid incorporation into treatment regime 	1

Current Competitive Landscape



Product	Class	Route	Company	Development Status
	Dopamine antagonist &			Phase 3 did not meet primary endpoint
Gimoti	mixed 5-HT ₃ antagonist/5-HT ₄ agonist	Nasal	Evoke Pharma	Phase 2b (n=287) results: Met prespecified symptomatic efficacy endpoint in both doses
		Sub Cutaneous	Allergan/	Phase 2b (Last Patient In April 2016)
RM-131	Ghrelin agonist		Rhythm Therapeutics	Phase 2a (n=204) results: Failed to meet secondary composite symptom endpoint with either dose
				Phase 2b (completed August 2015)
GSK962040	Motilin agonist	Oral	Glaxo	Phase 2a (n=79) results: No composite symptom endpoint results reported; effect seen for fullness only
	5-HT ₄ agonist Ora	Oral		Phase 2 (enrolling)
TD-5108			Theravance	Phase 2a (n=34) results: No results reported for symptom relief

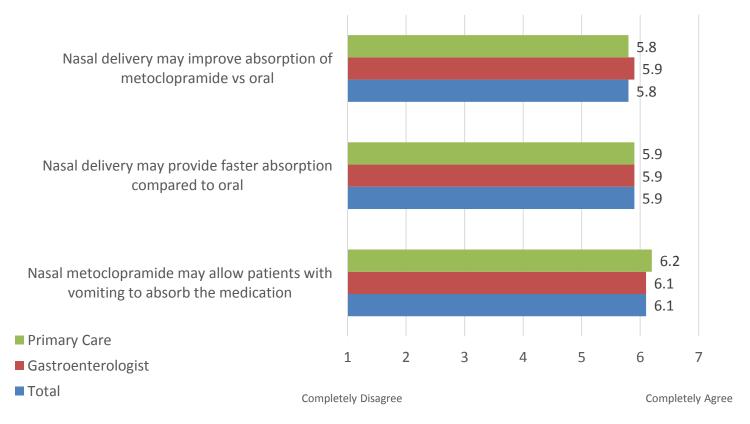
Strong competitive advantages

- FDA requires symptom relief as the primary endpoint for gastroparesis clinical trials
- Only Gimoti has shown symptomatic efficacy in an endpoint

Addressing Physician Concerns



Mode of Delivery Attributes

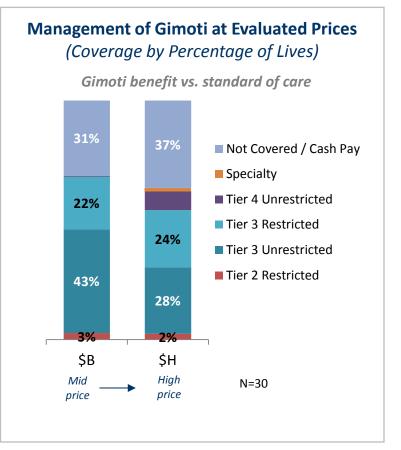


Source: ZS Associates Gastroparesis quantitative survey (n=121), Question 4Q5: How much do you agree with each of the following statements? Totals weighted based on average metoclopramide TRx's per high/medium segment

Strong Pricing Potential



Anticipate Gimoti to be widely available to commercial plan members



- Ample commercial insurance reimbursement expected
 - Prices similar to (\$B) or higher than (\$H) than current branded GI products
 - Similar regardless of label (profile) differentiation
- Mostly Tier 3 "Unrestricted" or "Restricted" coverage projected (typical for branded products)
- Expecting relatively less reimbursement issues due to:
 - Lack of competitive products
 - Large unmet need
 - Significant current medical costs for hospitalization

Source: Campbell Alliance Web-based surveys with 18 pharmacy directors and 12 medical directors. April 29 through May 26, 2015.

Long-term IP Protection



	U.S. Granted Pater	its
Patent #	U.S. 6,770,262	U.S. 8,334,281
Title	Nasal Administration of Agents for the Treatment of Gastroparesis	Nasal Formulations of Metoclopramide
Expires	2021	2030

	PCT Application
Application #	PCT/US2012/052096
Title	Treatment of Symptoms Associated with Female Gastroparesis
Expires	2032 (if granted)

Summary

Current patents provide protection against:

- Delivering metoclopramide into the nose to treat symptoms associated with gastroparesis; and
- Using a spectrum of stable liquid formulations containing metoclopramide





Income Statement Data (in US \$)

	3 months ended June 30, 2016
Operating Expense	
Research & Development	\$2.1M
General Administrative	\$0.8M
Total Operating Expense	\$2.9M
Other (Income) Expense	\$0.1M
Net Loss	\$3.0M

Balance Sheet Data (in US \$)

	June 30, 2016
Cash Balance*	\$4.1M
Debt	\$4.5M

*\$14.5M equity raise in July/August 2016

Equity Outstanding as of June 30, 2016
12.4M Common Shares
3.3M Warrants
1.3M Stock Options



Summary Highlights



- **Gimoti™ (previously EVK-001):** novel nasal delivery of metoclopramide for the symptomatic relief of acute and recurrent diabetic gastroparesis in women
- Only one FDA-approved therapy for gastroparesis: Metoclopramide (oral & IV) which has ~4 million prescriptions of the oral medication written annually
- Serves unmet clinical need: Provides predictable absorption despite gastroparesis symptoms
- Large market opportunity: 12-16 million patients in US (80% women)
- **Pursuing optimal 505(b)(2) NDA pathway:** Ongoing analysis of Phase 3 data
- **Positive Pre-NDA meeting with FDA:** Recent FDA meeting to discuss Regulatory, CMC, and Non-Clinical sections of NDA
- **Pre-NDA meeting with FDA focused on Clinical**: Preparing a meeting to discuss Clinical sections of the NDA



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