



Parnell Investor Presentation

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PRESIDENT AND CHIEF EXECUTIVE OFFICER



GONAbreed
(gonadorelin acetate)

estroPLAN
(cloprostenol sodium)

Cautionary Note Regarding Forward-Looking Statements

This presentation contains “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. Words such as “may,” “anticipate,” “estimate,” “expects,” “projects,” “intends,” “plans,” “develops,” “believes,” and words and terms of similar substance used in connection with any discussion of future operating or financial performance identify forward-looking statements. Forward-looking statements represent management’s present judgment regarding future events and are subject to a number of risk and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. These risks include, but are not limited to, risks and uncertainties regarding Parnell’s research and development activities, its ability to conduct clinical trials of product candidates and the results of such trials, as well as risks and uncertainties relating to litigation, government regulation, economic conditions, markets, products, competition, intellectual property, services and prices, key employees, future capital needs, dependence on third parties, and other factors, including those described in Parnell’s Annual Report on Form 20-F filed with the Securities and Exchange Commission, or SEC, on September 15, 2014, along with our other reports filed with the SEC. In light of these assumptions, risks, and uncertainties, the results and events discussed in the forward-looking statements contained in this presentation might not occur. Investors are cautioned not to place undue reliance on the forward-looking statements, which speak only as of the date of this presentation. Parnell is under no obligation, and expressly disclaims any obligation, to update or alter any forward-looking statements, whether as a result of new information, future events, or otherwise.

The Parnell Opportunity in Animal Healthcare:

Established Commercial Presence & Valuable Product Pipeline

5 Marketed Products; US Market Expansion Underway

Robust Pipeline with 7 Products in Development









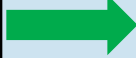

Integrated Development, Manufacturing & Commercial Capabilities

Unique Commercialization Model Utilizing Digital Technologies

Experienced Leadership in Global Animal Healthcare with Track Record

Products & Pipeline

Our Products & Pipeline

	Pilot Studies	Pivotal Studies	Anticipated Approval	Market Size
GONAbreed® & estroPLAN® (Fertility) – Cattle			Marketed (12 Countries)	\$200m
ZYDAX® (Osteoarthritis) – Dogs, Cats & Horses			Marketed (5 Countries; US/EU 2016)	\$400m
GLYDE™ (Osteoarthritis) – Dogs, Cats & Horses			Marketed (5 Countries)	\$500m
TERGIVE™ (Osteoarthritis) – Dogs			Marketed (1 Country)	\$400m
PAR121 (Orthopedics) – Dogs, Cats & Horses			2018	~\$200m
PAR122 (Dermatology) – Dogs & Cats			2018	~\$300m
PAR081 (Anesthesia) – Dogs & Cats			2017	\$120m
PAR101 (Diabetes & Laminitis) – Dogs & Horses			2017	~\$100m
GONADOPRO™ (Fertility) – Cattle			2017	\$200m
PAR061 (Mastitis) – Cattle			2019	\$400m

 Production Animal  Companion Animal

Positioned for rapid growth

Parnell's Business Strategy & Advantages

- Developed, registered, manufactured and commercialized Production and Companion Animal drugs in major markets
 - 2013 US launch of Estroplan, Gonabreed in Production Animal
 - 2015 US launch of Glyde and FETCH in Companion Animal
- Existing, rapidly growing revenues competing against major multinational incumbents
 - Revenue growing 55% YTD Sept. 30
 - Expect to exceed \$13m in 2015 and more \$30m in 2016
- Successfully implemented an innovative commercialization strategy using Digital Technology
 - FETCH and mySYNCH proving to be highly competitive differentiators
- Major advantage of having Manufacturing in-house
 - Provides certainty of supply for our own products and now becoming a highly profitable source of additional revenue
- Attracting unique business development & licensing opportunities
 - Expect to complete two accretive in-licensing deals by year end

2015 Companion Animal Guidance Update

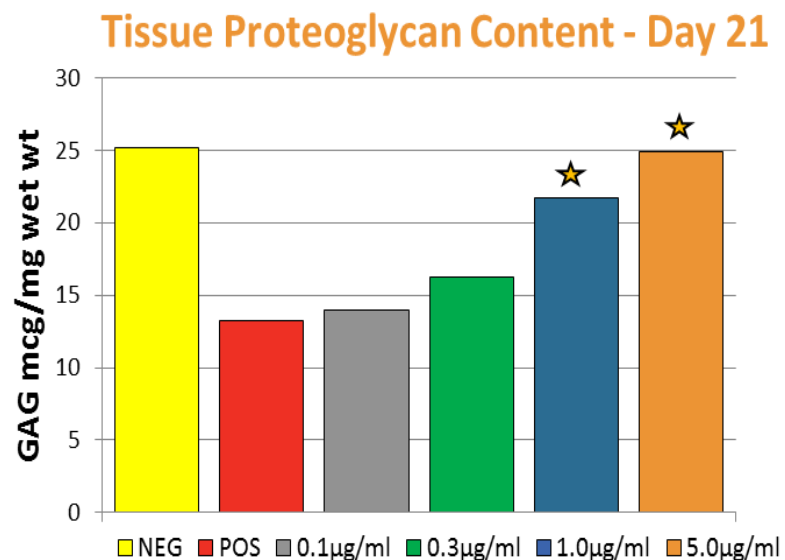
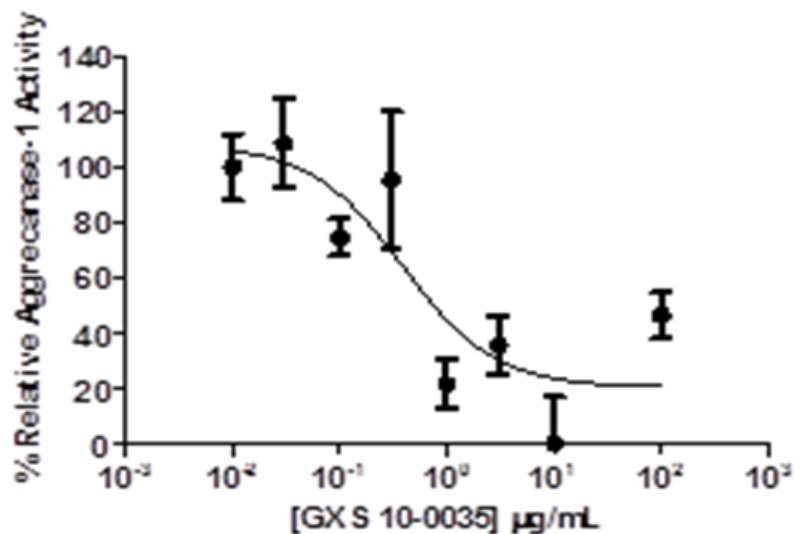
- **Bringing Zydam[®] & Glyde[®] to Large Markets**
 - Filed Zydam dossier with FDA Oct, 2015 (potential approval in Oct, 2016)
 - Expect to file in EU in Jan, 2016 (potential approval in Q4, 2016)
 - Launched Glyde and FETCH in USA Sep, 2015 (early trajectory is promising)
- **Establish US Canine Commercial Team**
 - Established a sales and marketing team of 55 covering 12,000 clinics
 - Expect to add in-licensed products to leverage this valuable investment
 - Provides twelve-month opportunity to pre-position Zydam in OA market
- **Considering options for launching Zydam & Glyde in non-US markets (e.g. EU, Asia, LATAM) including “own presence” vs. appointing a multinational Marketing Partner**
- **Reiterate expectation of significant global sales opportunity**
 - Unique positioning and market experience with Zydam provide confidence that Zydam will be a revolutionary therapeutic for the management of OA

ZYDAX[®]

- a revolutionary OA treatment -

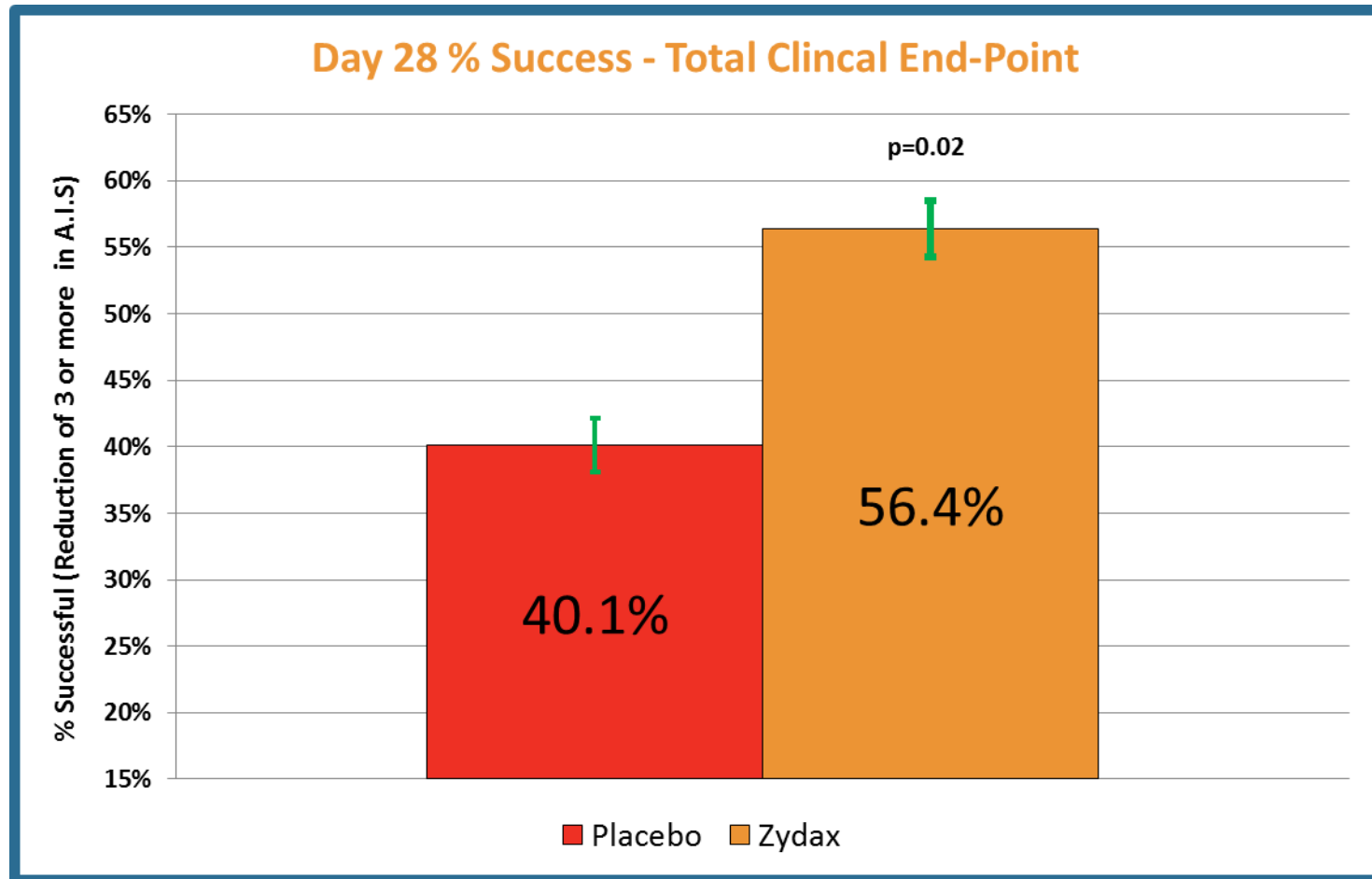
Zydax inhibits enzyme that degrades cartilage and increases cartilage production

- up-regulation of Aggrecanase-1 enzyme is the PRIMARY cause of degenerative joint disease, only ZYDAX substantially reduces the activity of this destructive enzyme
- Zydax quickly regenerates cartilage by significantly increasing the major component of cartilage; proteoglycans



Zydax Pivotal Efficacy Clinical Trial Outcomes

- Zydax significantly reduced the clinical signs of osteoarthritis after 4 injections as assessed by pet owners using a validated mobility scoring system

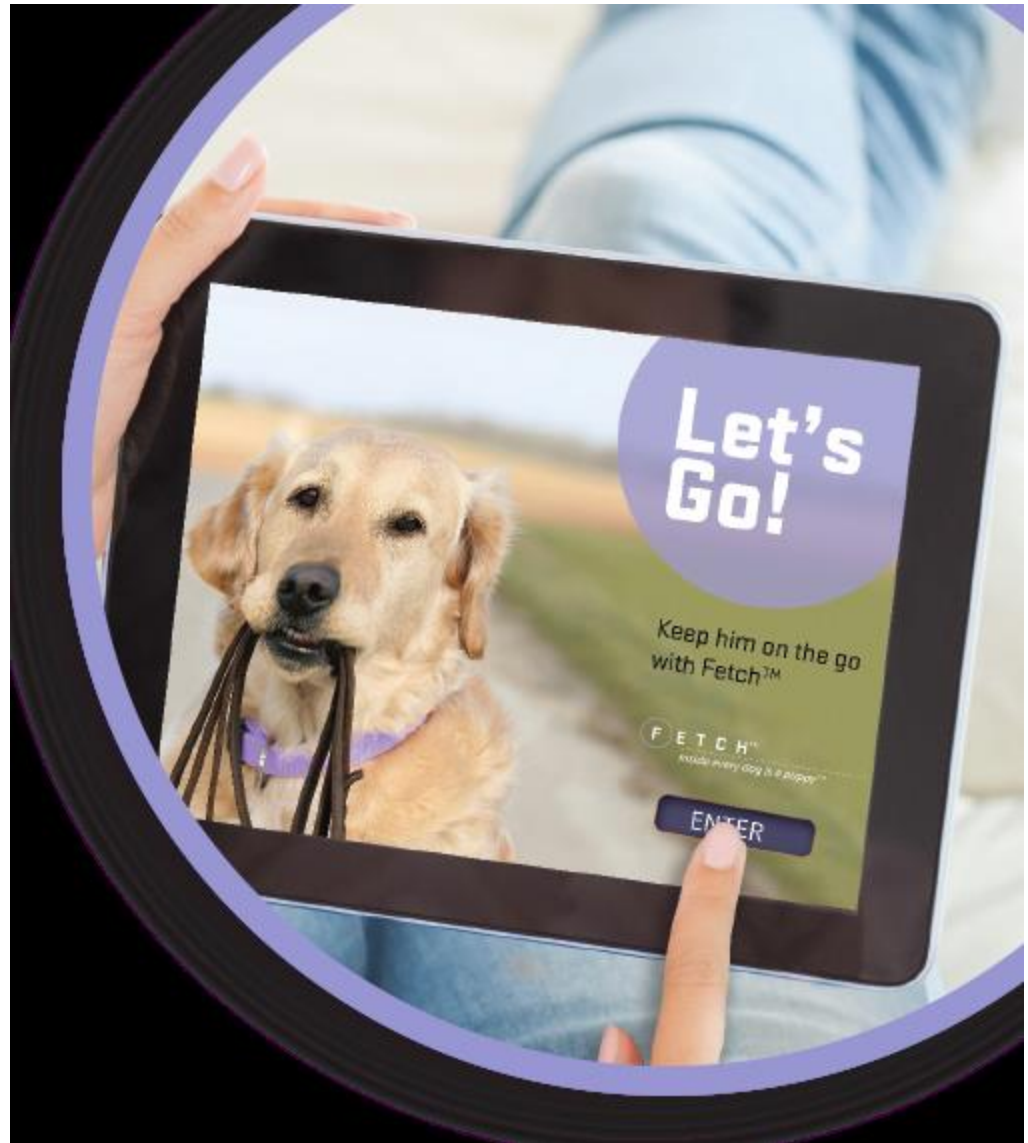


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Digital Technology

FETCH

- App's fully developed by Parnell for veterinarians and pet parents
- Designed to significantly improve the diagnostics leakage that exists in OA
 - 40% of dogs in the US and EU have OA
 - Less than 5% are treated
 - No safe, proven long term therapies currently marketed
 - No one “owns” the share of mind of pet parents in the digital space



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Nutraceuticals

GLYDE

- Nutraceutical market for osteoarthritis is currently larger than pharmaceuticals
- Significant growth in the overall supplements market mirroring growth in popularity of human products
- Glyde is uniquely positioned
 - Contains building blocks of cartilage (glycosaminoglycans)
 - Contains a unique natural anti-inflammatory
- Expect to leverage success of Glyde into other nutraceutical categories
 - Dermatology, Cardiology, Dental



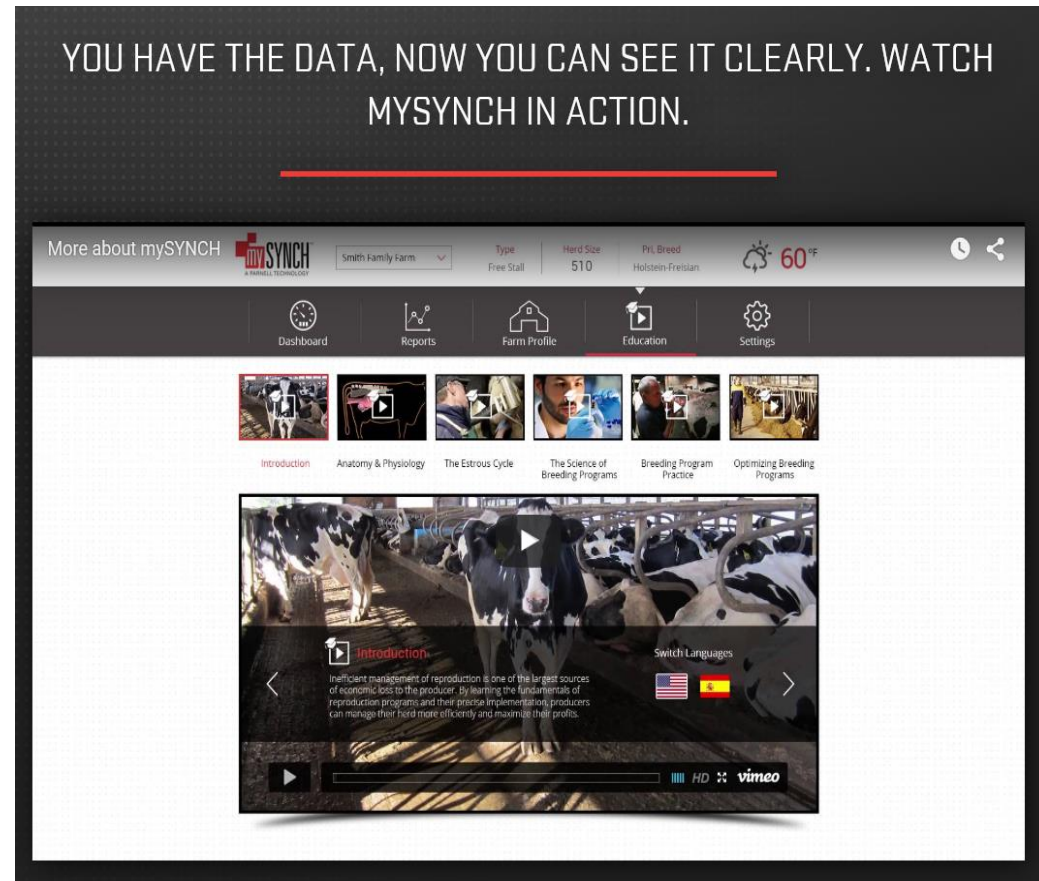
2015 Production Animal Guidance Update

- Triple digit sales growth in US Production Animal Business
 - 7 territories in place, considering up to 3 more in 2016
 - Sales growing 283% with market share reaching 9% in September, 2015
- **mySYNCH® launched at AABP, September, 2015**
 - Expect digital technology assets to create significant differentiation and potential subscription service revenue streams in future
- Expect to appoint Marketing Partner for Europe (and other geographies) with expected launch end-2016
- Reiterate expected global peak sales opportunity for reproduction hormones of \$20m – \$30m

Digital Technology

mySYNCH

- Enables Veterinarians and Dairy Producers to significantly improve breeding efficiency
 - Reproduction is the **#1** cause of economic gain on a dairy farm
 - Significant opportunity to improve the implementation of breeding programs through better data management
 - Opportunity to use benchmarking to drive further improvements



2015 Contract Manufacturing Guidance Update

- Close to agreeing a major contract manufacturing deal with a large multinational
 - Potential to expand scope of engagement
- Considering two other opportunities with other multi-nationals
- One or more of these deals will leverage our current spare capacity (75%) and be highly profitable/accretive with multi-million dollar revenues

2015 R&D Pipeline Update:

- Advancing 7 Proprietary Pipeline Programs
- PAR121/122: UN Grant to develop infrastructure in the Cook Islands for starting substrate
- PAR081: work commenced with CRO on formulation development
- Zydax extensions: Feline & Equine
- Zydax Clinical Study investigating Durability of Effect and “Treatment to Success” for dogs with severe OA
- Significant number of in-licensing opportunities under consideration:
 - Expect to complete at least two in-licensing transactions by year end
 - Continue to focus on major companion animal markets
 - Drugs/Nutraceuticals/Med-Device

2015/16 Major Milestones and Catalysts

- Revenue growth (Annual Earnings; Feb, 2016)
- Glyde & FETCH launch in USA – early trajectory
- Zydax FDA filings update – first reviews due April, 2016
- Contract Manufacturing Update – expected before year end
- Business Development Update – expected before year end
 - Zydax Marketing Partner appointment update
 - Expectations for short-term product additions
 - Expectations for pipeline product additions
- R&D milestone updates
 - PAR121/122 development updates (proof of concept study outcomes)
 - PAR081 (formulation development outcomes)
 - Zydax Feline Target Animal Safety and Target Animal Efficacy
 - Zydax Equine Target Animal Safety and Target Animal Efficacy
 - Zydax Canine Durability of Effect study outcomes

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