

Parnell Investor Presentation January, 2016

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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			2018	\$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 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 Zydax[®] & Glyde[®] to Large Markets
 - Filed Zydax dossier with FDA Oct, 2015 (potential approval in Nov, 2016)
 - Expect to file in EU in Feb, 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 Zydax in OA market
- Considering options for launching Zydax & 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 Zydax provide confidence that Zydax will be a revolutionary therapeutic for the management of OA







ZYDAX®

- a revolutionary OA treatment -



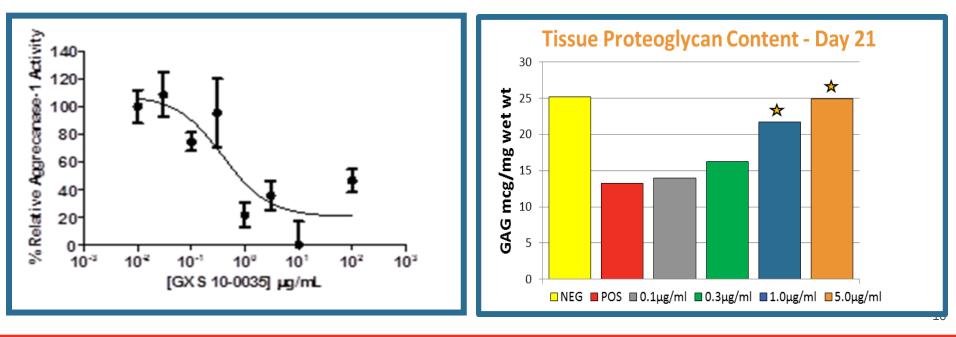






Zydax inhibits enzyme that degrades cartilage and increases cartilage production

- 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





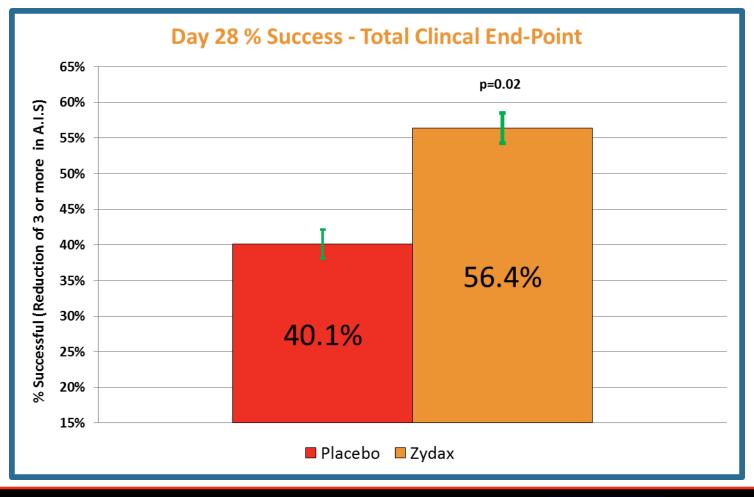


iONAbreed aonadorelin acetate)



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



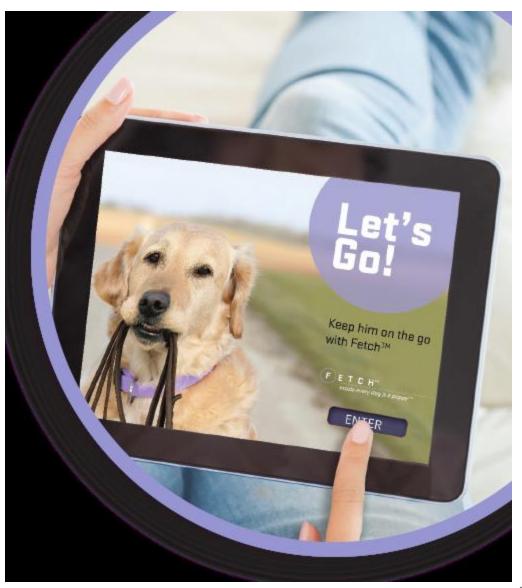






Digital Technology FETCH

- 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











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 antiinflammatory
- 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 2017
- Reiterate expected global peak sales opportunity for reproduction hormones of \$20m – \$30m



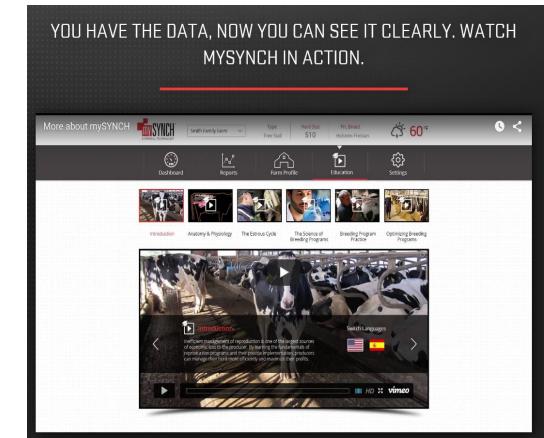






Digital Technology mySYNCH

- 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

- Finalizing two major contract manufacturing deal with a large multinationals
 - Potential to expand scope of engagement
- 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 extraction of starting substrate
- 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 multiple in-licensing transactions in 2016
 - Continue to focus on major companion animal markets
 - Drugs/Nutraceuticals/Med-Device







2015/16 Major Milestones and Catalysts

- Revenue growth (Annual Earnings; Feb 24, 2016)
- Glyde & FETCH launch in USA early trajectory
- Zydax FDA filings update first reviews due April, 2016
- Contract Manufacturing Update –Q1
- Business Development Update –Q1
 - 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)
 - 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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