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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



Parnell's Business Strategy & Advantages

- We have developed, registered, manufactured and commercialized Production and Companion Animal drugs in major markets.
- We have existing, rapidly growing revenues that demonstrate we can compete against the major multinational incumbents.
- We know the veterinary market and have successfully implemented an innovative commercialization strategy using Digital Technology.
- We can develop and commercialise drugs at a much lower cost due to our existing in-house capabilities including manufacturing
- We are using this experience to leverage our fully integrated value chain to progress our pipeline drugs delivering innovation to large, existing markets with unmet needs





Products & Pipeline







Our Products & Pipeline

	Pilot Studies	Pivotal Studies	Anticipated Approval	Market Size
GONAbreed [®] & estroPLAN [®] (Fertility) – Cattle			Marketed (12 Countries)	\$200m
ZYDAX® (Osteoarthritis) – Dogs & Horses			Marketed (5 Countries; US/EU 2016)	\$400m
GLYDE™ (Osteoarthritis) – Dogs & Horses			Marketed (5 Countries)	\$500m
TERGIVE™ (Osteoarthritis) – Dogs			Marketed (1 Country)	\$400m
PAR121 (Orthopedics) – Dogs, Cats & Horses			2018	~\$200m
PAR122 (Dermatology) – Dogs			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





Production Animal:

- Triple digit sales growth in US Production Animal Business
 - 7 territories in place, considering up to 3 more by year-end 2015
 - Market share and sales growing above plan 189% YOY growth Q1, 2015
- mySYNCH[®] launch in September, 2015
 - Expect digital technology assets to create significant differentiation and potential subscription service revenue streams in future
- Expect to appoint partner in 2015 to commercialize repro hormones in Europe with launch in 2H, 2016
- Reiterate global peak sales opportunity for reproduction hormones of \$20m – \$30m
- Will target in-licensing opportunities that can leverage digital technology asset (mySYNCH[®])





Companion Animal:

- Bringing Zydax[®] & Glyde[®] to Large Markets
 - Pivotal Efficacy trial nearing completion JUNE 18, 2015
 - CMC section to be filed concomitantly with Efficacy section in July, 2015
- US Canine sales team under recruitment
 - Expect to launch Glyde and iKAM[®] in September, 2015
 - 40 territory managers covering 6,000 clinics
 - Expect to leverage companion sales team for up to 12 months prior to launch of Zydax in 2H, 2016
- Expect to appoint a marketing partner for Zydax and Glyde in Europe (and other major markets) in Q3, 2015.
- Reiterate significant global sales opportunity
 - Depth of data package and market experience with Zydax provide confidence that Zydax will be uniquely positioned as a revolutionary therapeutic for the management of osteoarthritis in dogs





Pipeline:

- Advancing 7 Proprietary Pipeline Programs
 - Full details at Investor Day: June 18, 2015
- Significant number of in-licensing opportunities under consideration:
 - Expect to complete at least one in-licensing transaction in 2H, 2015
 - Continue to focus on major companion animal markets:
 - Mobility
 - Dermatology
 - Surgery
 - Considering development of additional nutraceuticals (to complement Glyde)
- Progress species expansion opportunities for Zydax in 2015
 - Feline & Equine





Contract Manufacturing

- Currently considering two opportunities
- Both could see reasonably rapid commencement and thus enhance utilization of our current spare capacity (75%)
- Multi-million dollar annual revenues with high margin





Zydax – a significant opportunity





Zydax[®] - a unique Disease Modifying OA Drug

- Parnell has spent \$7 million developing the API in Zydax
- We have also spent more than \$2 million on clinical trials in over 600 dogs in 30 clinical trial sites
- We are the only company in the last 30 years to have developed a novel class of OA drug
- We have sold over 1 million doses in Australia







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What is Zydax?

- Developed as an enhanced sulfated oligosaccharide (from PPS)
- 8-10 Xylan units that are each FULLY sulfated (19% 20%)
- This leads to a UNIQUE structure that:
 - inhibits Aggrecanase-1
 - significantly increases Cartilage Proteoglycan content in 21 days
 - Significantly reduces Prostaglandin (pro-inflammatory) presence
 - Results in HIGHLY significant clinical outcomes
- Only Parnell has this compound and has patented it GXS





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- stimulate new cartilage growth







UNIQUE MECHANISM OF ACTION - anti-inflammatory







ONLY ZYDAX INHIBITS AGGRECANASE-1

- It is well established the PRIMARY cause of degenerative joint disease is the up-regulation of Aggrecanase-1
- In a head-to-head study against PPS, only ZYDAX was able to substantially reduce the activity of the up-regulated destructive enzymes present in OA





Pilot Efficacy Clinical Trial Outcomes

 Efficacy trial results: Percentage of dogs that had a >40% reduction in Pain and Interference caused by OA (Total <u>Clinical End Point</u>)





Pivotal Efficacy Clinical Trial

- ~315 dogs
- ~ 20 Clinical sites (USA & AU)
- Efficacy Assessment model: CSOM
- GCP (Gold Standard design)
- Results..... June 18, 2015!
- More clinical trials to come
 - ZYDAX GLYDE study
 - Durability study
 - Prevention study
 - MOA studies
 - Cat studies
 - Human studies





Upcoming Milestones





2015 Major Milestones and Catalysts

- Inaugural Investor and R&D Day June 18, 2015
 - New York Palace Hotel, 8:30am
 - Webcast available
 - Release of Zydax Clinical Trial Results
 - Communication of Global launch plans for Zydax and Glyde
 - Detailed development plans for new product pipeline
- Filing of Zydax registration dossier with FDA and EMA
 - July, 2015
 - Expect approval to take ~12 15 months
- Zydax Co-marketing (EU) deal announcement
- First-half financial results August 2016





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