EQUINA™: A CT SCANNER DESIGNED BY AND FOR VETERINARIANS

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Changing the paradigm in equine imaging

**The Problem**
Current imaging tools are not sufficient to optimally manage equine patients

**Asto CT Technology**
Equina™ is a CT system that allows imaging of a standing sedated horse

**Our Goal**
Enable veterinarians to broadly offer CT imaging to the equine community

*Asto CT is pioneering standing CT to provide state-of-the-art screening & diagnosis to equine veterinarians*
Multi-slice CT identifies fractures

- Recent work on bone and fracture biomechanics in equine patients suggests that CT is the right technology to improve the ability to monitor and detect fracture risk over time.

Dubois et al., PLoS One 2014
Muir, Veterinary Record 2014
Acquiring images – simple process

**Step 1** Lead horse to 75 cm target ring & sedate

**Step 2** Position scanner & acquire images

**Step 3** Reverse sedation & lead horse off platform
Equina™ appeals to small and large veterinary centers

Performance horses
- Early detection of stress fractures
- Effectively manage training programs

Show & Recreation
- Easier identification and management of lameness & other musculoskeletal concerns

Older horses
- Best-in-class diagnosis of dental & sinus problems

Equina™ can help manage a wide range of conditions in your equine patients
Scanner characteristics

- Modern fan-beam CT scanner
  - 75 cm opening & field of view for easy positioning
  - High-resolution mode for bone imaging
  - 100 cm scan range (24 detector rows)
    - Limb imaging to carpus/tarsus
    - Neck imaging to C6/C7
  - 30 sec scan times
  - Very low leakage radiation – scanner is shielded
  - Tube voltage 80-160 kVp, 8 mA
  - Focal spot size < 1.0 mm
Equina™ meets diverse needs of horses

Flexible
Limb & head/neck scanning

Simple
Quick & easy positioning

Rugged
Designed for horses

Diagnostic
Detects subtle defects

Mobile
Service in the stable

Safe
Light sedation only

Equina™ is designed to provide high-quality imaging without sacrificing the safety & versatility that equine veterinarians require.
First images demonstrate diagnostic quality
First head & neck images

Flexibility of Equina™ allows for diagnosis of equine diseases of the head & neck, and sinus & teeth problems
Equina™ can be used for small animals

- Flexibility of robotics can accommodate a gurney for small animals
- The gurney is stationary → convenient for simultaneous use of anesthesia equipment and other devices
About Asto CT

- Asto CT was founded in 2015 as a result of a research collaboration between the UW-Madison School of Veterinary Medicine (Peter Muir) and Morgridge Institute for Research (Rock Mackie)
- The company is pioneering robotics in combination with CT scanning to provide new imaging indications
- Our patented approach allows for imaging of a standing sedated horse, or small animals on a mobile gurney
- The first mission is to improve diagnosis and treatment of conditions of the distal limb and diseases of head and neck in horses
World-Class Team & Advisors

David Ergun
Founder, CEO
Provided slides

Rock Mackie
Founder, Chair

Olof Johnson
President, PDSI

Peter Muir
Founder
UW Vet School

Cristina Ergun
Veterinarian

Megan Rothney
Marketing

Mark Markel
Founder, UW Vet School

Sabrina Brounts
Equine Specialist
UW Vet School

Harry Freeman
Sales & BD

Technology Leadership

Equine Knowledge

Commercial Success

Asto CT
Equine Standing CT
Summary

- Asto CT technology is shifting the paradigm in equine imaging by solving long-standing diagnostic problems.
- Equina™ offers safe, high-quality CT imaging to the equine community.
- Equina™ is a versatile system that can be used for small animals.
- Asto CT has introduced Equina™ at the AAEP in December 2016 & will begin shipping units in May 2017.
Asto CT

Preventing equine fractures with safe, high-quality CT imaging