

Details of Technology

Name of Technology	Application of CT guided stereotactic brain surgery to small animals	Medical Treatment and Welfare
Name/Post/Faculty	Akihiro Oishi / Associate Professor / Veterinary Medicine Academic Group	
Key words	dog, cat, CT, stereotactic brain surgery	

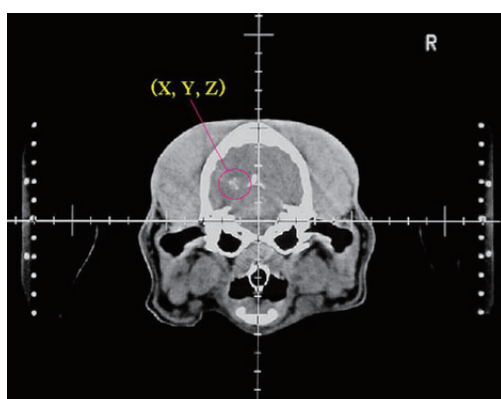
What kind of technology is this?

Outline

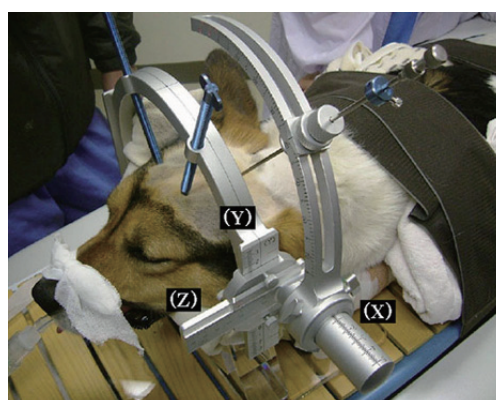
- **Novel technology for diagnosis and therapy for cranial lesions in small animals**
- **Application of minimally invasive surgery**

【Research output contents】

- Invention of stereotactic surgical instruments for the cranium in small animals
- Study on safety of drilling method in cranium
- Study on accuracy of approach to 3-dimensional coordinates
- Introduction of the technology by academic journals



Reading of (X, Y, Z) coordinates in CT image



Installment of stereotactic brain surgery instrument and fixation of coordinates

What are its applications?

- Diagnosis of cranial lesions in small animals (biopsy/endoscopy)
- Therapy of cranial lesions in small animals
 - Suction treatment
 - Infusion treatment
 - Cannulation

Related patents	None
Related materials	