

Lasers to destroy bladder stones in animals

July 28 2020

Urinary tract stones in cats and dogs can now be 'pulverised' by new laser technology acquired by The University of Queensland's veterinary hospital.

UQ VETS Small Animal Hospital has introduced an animal version of the laser lithotripsy procedure which breaks down stones using fibre blasting light pulses.

UQ veterinary specialist and lecturer Dr. Erika Meler announced UQ VETS has started to use the minimally invasive technology to offer a gentler alternative for pets.

"This technique gently breaks up urinary tract stones and uses the body's natural passages to get rid of the [stone](#)," Dr. Meler said.

"Pulsed laser energy destroys the stones under the guidance of endoscopy, removing the need for a scalpel blade or surgery.

"Pain scores for the pet are lower and it reduces their recovery and hospitalisation time—it means we are able to provide the best possible care for our patients."

Laser lithotripsy is now being used at the Gatton-based veterinary [hospital](#) mostly for dogs suffering from bladder and urethral stones.

The laser can also correct congenital defects in the urinary tracts of dogs known as ectopic ureters.

Versions of the technology have been used on [human patients](#) since the 1980s, but this will be one of the first uses of the technology for animal patients in Australia.

"The use of this advanced technology really places us at the forefront of veterinary medicine in Australia," Dr. Meler said.

"UQ VETS is one of the only vet hospitals in Queensland to have a comprehensive team of specialists, including anaesthesiologists and radiologists, who work collaboratively to ensure the best outcomes for patients.

"Combining this new technology with high-level specialist teams puts UQ on the cutting edge of animal medicine.

"We'll be able to teach our students more innovative ways to treat [small animals](#) using [laser](#) lithotripsy.

"It will create a whole new generation of vets ready to improve the lives of precious companions."

Provided by University of Queensland

Citation: Lasers to destroy bladder stones in animals (2020, July 28) retrieved 2 May 2024 from <https://phys.org/news/2020-07-lasers-bladder-stones-animals.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--