

# Equine Regenerative Medicine

## UTCVM LARGE ANIMAL HOSPITAL

We bring together biologists, engineers, veterinarians, and physicians to study stem cell biology and use stem cells in regenerative therapy.



Donor Horse



Bone Marrow Harvest



Bone Marrow Aspirate



Stem Cell Isolation & Proliferation



Stem Cell Treatment

### Our Team

Our regenerative medicine team is composed of expert faculty from various disciplines who blend basic science and clinical medicine, to advance regenerative medicine.

### Regenerative Medicine Research

The UT stem cell initiative brings together resources from across the university to translate research done in the laboratory into clinical treatments for animals. Our research in stem cell therapies includes diseases of bone and cartilage, corneal diseases, wound healing, and nerve injury.

### Clinic Stem Cell Source

Our regenerative therapy uses adult stem cells that have been collected from the bone marrow. Bone marrow harvested adult stem cells can be isolated from the equine patient (autologous) or from a donor horse (allogeneic). Allogeneic adult stem cells isolated from specialized donor horses at the Veterinary Research and Education Center at UTK are currently being used successfully for the treatment of various injuries in client horses. Using a dedicated stem cell laboratory, our personnel process, culture and store adult derived stem cells for research and clinical use.

The Regenerative Medicine Team works with veterinarians in private practice as well as the UTCVM Veterinary Medical Center to provide these advanced therapies to equine patients.

## For more information, contact:

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[vetmed.tennessee.edu/vmc/EquineHospital/EquineRegenerativeMedicine](http://vetmed.tennessee.edu/vmc/EquineHospital/EquineRegenerativeMedicine)

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