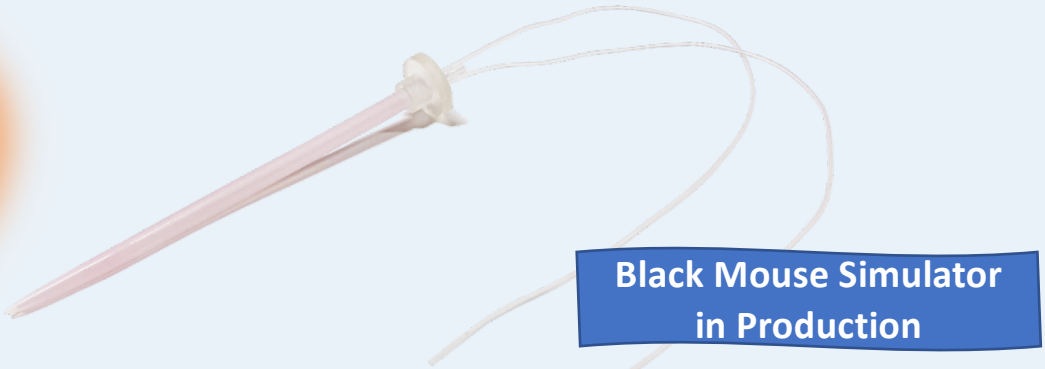
HUMANEWAY — protecting animal welfare in research

Patent Pending

Mouse Tail Vein Simulator

Greatly Contributes to **"Replacement"** and **"Refinement"** of Animal Use Alternatives



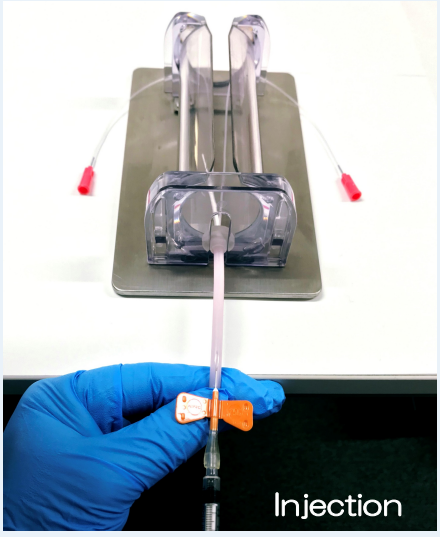
Black Mouse Simulator in Production

For Injection and Blood Collection Training Prior to Using Live Animals

Feature 1 Accurately Produced for Realistic Training Experience

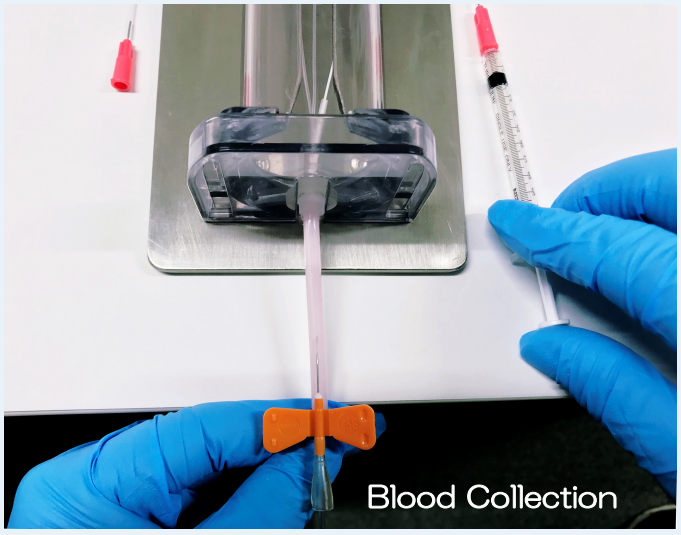
- Developed with professors and professional technicians to reproduce an actual animal.
- To be used for training before performing procedures on live animals.
- Recommended for students and beginners.

Feature 2 Vein Injection Training



- Stabilizing simulator in a restraint device (pictured above).
- Insert needles into each end of tubes (blood vessels) of the tail and inject fluid. Injection is complete when the fluid comes out from the tip of the tubes.

Feature 3 Blood Collection Training



- Stabilizing simulator in a restraint device (pictured above).
- After filling tubes with simulated blood using a syringe, insert needle into either one of the tubes (blood vessels) and apply pressure to the simulated blood in the tube with the syringe. This reproduces the blood collection process.

【Development Partner】

The simulator was developed using 3D printer and soft tissue reproduction technology under academic guidance by Dr. Masaru Kawakami of Yamagata University Faculty of Engineering and Mechanical Systems.

Hundred

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