Envigo, in collaboration with Access Technologies and Tracy H. Vemulapalli, DVM, MS Postdoctoral Fellow, Laboratory Animal Medicine Department of Pathobiology Purdue University, has completed a study using Hsd:Sprague Dawley® SD® rats to evaluate recommendations for improved patency and biocompatibility in catheterized animals. This study provides statistical patency benefit to rounded-tip jugular vein catheters\cite{2,6,9,10} and heparin locking solutions\cite{5,8,9,10}. From these results and support in literature involving clinical work, Envigo has made available the Envigo Rounded-Tip Catheter for vascular access in catheterized rats.

**Benefits**

+ Increased long term patency, with a flushing interval of 5–7 days
+ Reduced maintenance requirements
+ No additional cost for both tip configurations

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### Bibliography


O’Farrell, L. Optimal central venous catheter design for long-term blood sampling in rats. Submitted in partial fulfillment of the requirements for the Degree of Master of Science. Pennsylvania State University, Heshey, PA, USA.


Vemulapalli, T. H., Fredenburg, N. J., Canaker, S. M., & Stevens, K. A. Evaluation of the effect of rounded tip and catheter lock solution on patency and tissue reactivity of indwelling jugular catheters in rats (manuscript in preparation). Purdue University, West Lafayette, IN, USA.