

JoVE Saves Michigan State Labs More Than \$13,000 Annually by Improving Surgery Success Rates by 50%







Challenge: For costly surgical procedures such as catheter implantation, how can instructors increase the success rate for new students learning the technique?

Solution: For Dr. Carrie Northcott and Dr. Brian Jespersen at Michigan State University, the solution was clear: have JoVE create a concise, professional video of the method to expedite transfer of knowledge, reduce expense of wasted time and materials, and ensure consistency of the implantation technique.

"Initially it took multiple tries, whereas now when we teach this technique with the JoVE video we have a success rate between 90 to 100 percent."

-Dr. Carrie Northcott, Michigan State University

Results/Benefits:

- Jespersen and Northcott used the video in their classrooms to teach their catheterization method to their students and share the technique with colleagues remotely.
- With use of JoVE video, overall student success rate for catheter implantation increased from 40% to 90%.
- The learning curve for students to successfully implant a catheter for the first time was reduced from 8 tries down to 1.
- With trials costing \$50 each, the 9 researchers of the Northcott Lab collectively saved \$3,150 by using JoVE. The Jespersen Lab, which trained 10-14 new students per year, saw annual savings of \$10,500. Combined, the labs saved Michigan State an estimated \$13,650.