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The Berliner OP-Trainer (BOPT) is
patented by
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By Surgeons for Surgeons

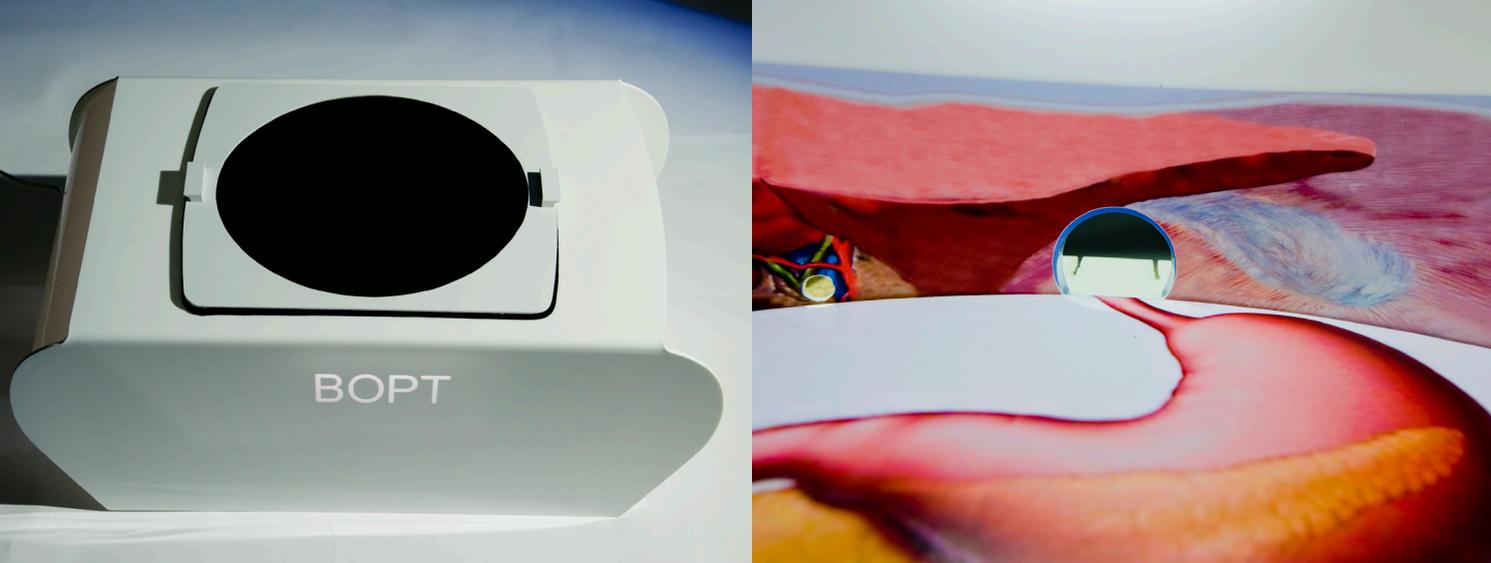
The multifunctional Berliner OP-Trainer

For conventional and laparoscopic
suture and anastomosis techniques



BOPT
Berliner OP-Trainer





The Concept of the multifunctional Berliner OP-Trainer (BOPT)

Preparation for suture training and anastomoses techniques are an integral part of comprehensive surgical training. While virtual simulators are available for laparoscopic techniques, at present no equivalent training device exists for procedures using conventional open abdomen operations. The multifunctional Berliner OP-Trainer (BOPT) combines realism and versatility providing users with adjustable settings for added difficulty and skill level. In addition BOPT functions as a laparoscopic trainer giving users an array of potential procedural options. Unlike current training methods, BOPT simulates real surgical scenarios including distance, depth and accessibility. The abdominal cavity simulated by BOPT includes those challenges faced during procedures such as: position of the surgeon to the patient, organ placement and size. Exercises are therefore more consistent to those performed during operations, improving accuracy and precision.

The BOPT comes equipped with two easily removable modules representing the upper GI and pelvic region. Anatomically mirroring the bile duct, esophagus and rectum openings, these specially constructed modules simulate the depth and degree of accessibility within the abdominal cavity (e.g. height of anastomosis in the pelvic region). Designed for externally supplied organs, BOPT enhances realism and offers users the opportunity to train using the positions and circumstances most like those faced during a procedure. Following its development, BOPT successfully passed preliminary trials and was praised for its validity as part of the elementary tract for training suture and anastomosis techniques in visceral surgery.

*(Gröne et al. 2010 Langenbecks Arch Surg.;
Lauscher et al. 2010 World J Surg.)*

Evaluation of BOPT



Technology, user friendliness, functionality overall satisfaction rated by 108 participants of the OP course in Warnemünde 2008.

Technical Data

Constructed from acrylic, BOPT is equipped with upper GI and pelvic region attachments, built for durability. The main module is lit circularly from within, dispersing light evenly across the plain of the operation field. For better instruction, BOPT is relative to the average abdominal cavity enlarged by 1.2 to 1.3. The components of BOPT are welded for additional sturdiness and designed for long term usage. Surgical instruments can be conveniently stored inside the built-in drawer and organs used for exercises affix easily to the supplied Styrofoam plate, complete with laminated abdominal diagram.