Project Name: Assessment of a physical simulator for key-hole lung surgery

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Summary: Lung cancers can be removed using key-hole surgery, both manual and robotic. The training for the operators is considerable to reach the level of skill required to perform these procedures. We are developing a low-cost and realistic 3D anatomical model of the thorax to provide a simulation environment for training. The aim of this project is to further develop this simulator and evaluate it using both manual and robotic instruments.

Student Role: The student will acquire skills in data analysis, 3D printing, working with clinicians, medical image processing, CAD software.