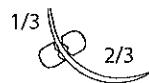
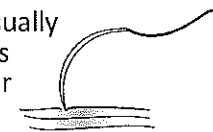
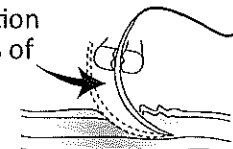
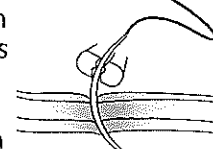
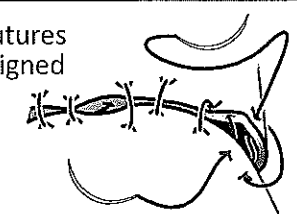
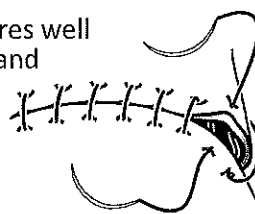
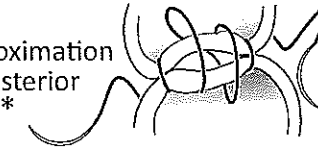
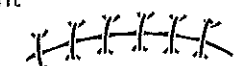
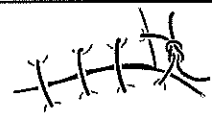



# RACE

(Robotic Anastomosis Competency Evaluation)

Domain	①	②	③	④	⑤
<b>Needle positioning</b>	① Usually incorrect (>75%)	②	③ Incorrect less than half the time	④	⑤ Always correct (>90%) perfect 
<b>Needle entry</b>	① Needle tip usually (>75%) enters non-perpendicular	②	③ Needle tip enters half the time non-perpendicular	④	⑤ Needle tip usually (>90%) enters perpendicular 
<b>Needle driving &amp; tissue trauma</b>	① Wrist rotation seen <25% of time with tissue trauma 	②	③ Wrist rotation seen <50% of time with minimal tissue trauma	④	⑤ Wrist rotation almost always (>90%) seen with no tissue trauma 
<b>Suture placement</b>	① > 6 sutures misaligned 	②	③ < 3 sutures misaligned	④	⑤ All sutures well placed and aligned 
<b>Tissue approximation</b>	① Poor approximation of posterior plate* 	②	③ 20% of circumference missing; unlikely water tight	④	⑤ Well approximated; water tight 
<b>Knot tying</b>	① Suture broken*	②	③ Air knot 	④	⑤ Perfect secure knot 

\* Denotes a critical error; requires supervisor to take over