Appendix 1 to Balayla J, Bergman S, Ghitulescu G, et al. Knowing the operative game plan: a novel tool for the assessment of surgical procedural knowledge. *Can J Surg* 2012.

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PROCEDURAL STEPS

Indirect inguinal hernia mesh repair in men

- O Incise the skin in the groin for 5–6 cm within a Langer line to expose the internal ring
- O Deepen the incision through the subcutaneous tissue to expose the external oblique fascia
- O Open the external oblique aponeurosis and free its lower leaf from the spermatic cord
- O Free the upper leaf of the external oblique aponeurosis from the underlying muscle
- O Separate the spermatic cord and encircle it with a Penrose drain
- O Incise the cremasteric sheath to explore the internal ring for an indirect hernia sac
- O Free, if present, the indirect hernia sac from the cord to a point beyond the neck of the sac
- O Verify that the sac is empty, then suture ligate the sac and transect it
- O Invert the indirect hernia sac into the peritoneal space
- O Select a mesh to insert, retract the spermatic cord
- O Suture the mesh to the insertion of the rectus sheath to the pubic bone
- O Continue the suture to attach the lower edge of the patch to the inguinal ligament up to a point just lateral to the internal ring
- O Suture the upper edge of the mesh to Cooper's ligament
- O Place the spermatic cord between the mesh tails
- O Wrap the tails around the cord and place a suture to secure them there
- O Tuck the excess mesh underneath the external oblique aponeurosis
- O Close the external oblique aponeurosis over the cord with an absorbable suture
- O Close the skin with an absorbable suture

Committed:	
Omitted:	
Total:	/18

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Lanarosco	nıc	cholec	vstectomy

- O Incise the skin 2-cm length above or below the umbilicus
- O Incise the linea alba to enter the abdomen and place stay sutures in the fascia
- O Place a primary 10-mm Hasson trocar through the umbilicus
- O Begin gas insufflation and pass a laparoscope through Hasson
- O Place a second 5-mm trocar in the epigastrium under direct vision, at the level of the inferior liver edge just to the right of the falciform ligament, angling toward the gallbladder
- O Place a third 5-mm trocar just below the costal margin in the midclavicular line
- O Place a fourth trocar in a variable position, generally in the anterior axillary line, several centimeters below the fundus of the gallbladder
- O Elevate the gallbladder by placing a clamp on the fundus of the gallbladder and elevate the fundus
- O Dissect the peritoneum at the interface between Hartman's pouch and periportal fat toward the common duct until the cystic duct, cystic artery, or lymph node of Calot is identifiable
- O Circumferentially dissect the cystic duct as it enters the gallbladder to achieve the critical view of safety. Ligate and divide the cystic duct
- O Circumferentially dissect the cystic artery as it crosses onto the gallbladder to achieve the critical view of safety. Ligate and divide the cystic artery
- O Dissect the gallbladder off the liver bed using traction and cautery, ensuring hemostasis
- O Move the laparoscope to the epigastric trocar and place the gallbladder into an endobag introduced through the Hasson trocar
- O Remove both the trocar and the gallbladder
- O Remove trocars (under direct vision)
- O Close fascia and skin

Committed:	
Omitted:	
Total:	/16

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Total: _____/19

Open right hemicolectomy for malignancy
O Make a midline incision
O Perform a full laparotomy
O Locate the site of the malignancy
O Open the retroperitoneum along the white line of Toldt to separate the retroperitoneal structures from the terminal ileum and colon
O Incise the medial and inferior attachments to the cecum and terminal small bowel toward the junction of the third and fourth portions of the duodenum
O Continue the lateral dissection up and around the hepatic flexure, retracting the midtransverse colon inferiorly
O Dissect the thin plane between the mesocolon and the gastrocolic ligament to complete the flexure mobilization.
O Ligate and divide vessels as needed
O Place a gentle traction on the transverse colon and complete the remaining mobilization of the proximal transverse colon.
O Retract the right colon superio-medially, exposing the duodenum and head of the pancreas
O Incise the peritoneum overlying the mesenteric vasculature
O Clamp, divide and ligate the ileocolic and right branch of the middle colic vessels at their base
O Clamp and divide the marginal branches to the ileum at the proximal margin of resection
O Divide the terminal ileum (using stapling device or clamp and sharp incision)
O Divide the colon (using stapling device or clamp and sharp incision)
O Send the specimen for pathologic evaluation
O Align the bowel and perform the anastomosis
O If hand sawn \rightarrow 2 layers closure
O If stapled \rightarrow GIA between colon and small bowel with mesenteric border
O Close with T-A stapler after aligning with Alice clamps or 2-layer closure
O Check the abdomen for adequate hemostasis
O Close abdomen at fascia and skin
Committed: Omitted: