

Midwifery at Green Landing – Resource Page

Topic: Suturing Skills

Knot Tying

- ***Surgical Knot Tying Manual (Covidien)***

The Covidien Manual is a 99 page manual providing in depth instruction on the following techniques and principles of knot-tying: instrument ties, hand ties, two hand square knot, two hand surgeon's square knot, two hand slip knot, single hand square knot, instrument square knot. **The visuals included in this manual are drawings.**

<https://image.tigermedical.com/Manuals/COVSPB5843G-20141216002628456.pdf>

- ***Ethicon Knot Tying Manual***

The Ethicon Manual covers the techniques and principles of basic knot tying, including the square knot, surgeon's knot, instrument knot, granny knot, and ligation techniques. **This is a shorter manual with step-by-step visual guidance (photographs of human hands performing the ties).**

<http://surgsoc.org.au/wp-content/uploads/2014/03/Ethicon-Knot-Tying-Manual.pdf>

- ***TASSL: Basic Open Knot-Tying Skills and Suturing Skills Training Program***

The TASSL Basic Open Knot-Tying & Suturing Skills training offers a curriculum using the concepts of **proficiency-based training**. The table on the top of the webpage indicates the mastery criteria for each task. Make sure to scroll down to "Files." This section contains pre-and post-test questionnaires and assessments, as well as **useful videos of each task**.

<http://www.tassl.org/openskills.asp>

- ***Two Hand Square Knot, Wayne W. LaMorte, M.D., Ph.D., M.P.H. (Boston University)***

The two hand square knot is the most common and fundamental knot used by midwives. LaMorte provides a step-by-step guide with visuals for the two hand square knot.

<http://www.bumc.bu.edu/surgery/training/technical-training/two-hand-tie/>

- ***Animated Knots, Alan W. Grogono, MB, BS, MD, FRCA (British style)***

Left handed? These animations are for you! Animated knots is an excellent series of knot-tying videos. Each animation can be flipped to suit **right-handed** and **left-handed** operators or inverted to help an instructor guide a student sitting across a table. Relevant to midwives are the instrument, 1-hand, and 2-hand surgical knot-ties.

<http://www.animatedknots.com/indexsurgical.php?Categ=surgical&LogoImage=LogoGrog.png&Website=www.animatedknots.com#ScrollPoint>

- ***Kenley Suture Practice Kit (linked)***

(There are a variety of practice kits online)

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Sutures, Suturing and Wound Closure

- **Basic Suturing Kit:**
<https://www.1cascade.com/cascade-basic-suturing-kit-konig>
- **Duke Suture Skills Course:**
Great course for the visual learner.
https://www.youtube.com/watch?v=TFwFMav_cpE
- **Laceration Repair:**
A practical and updated approach to laceration repair that emphasizes achieving hemostasis and optimal cosmetic results without increasing the risk of infection.
<https://www.aafp.org/afp/2017/0515/p628.pdf>
- **Wound Closure Manual (Ethicon):**
Similar to the Ethicon Knot Tying Manual, the Wound Closure Manual not only covers knot tying, but wound healing and management, the suture, the surgical needle. **This is a long and comprehensive manual with visual drawings.**
http://www.uphs.upenn.edu/surgery/Education/facilities/measey/Wound_Closure_Manual.pdf
- **Suture Simulation Soft Tissue Practice Pad:**
Soft Tissue Practice Pad provides the experience of practicing suturing skills on realistic tissue. **Simulation product.**
<https://www.3-dmed.com/product/soft-tissue-suture-pad>
- **Sim*Vivo Knot-tying and Suturing Simulation Kits and videos:**
These modules are designed to provide the learner with the complete array of materials and supplies to practice and learn tasks in the laboratory as well as in their personal learning environments. These learning systems allow for both supervised training and distributive practice at an affordable cost.
Kit: <http://sim-vivo.com/learning-systems/>
Training videos: <https://sim-vivo.com/guides-and-videos.html>
- **Surgical Suture:**
An ode to suture and why their characteristics are crucial to minimize ischaemia, excess wound tension, and tissue injury. [Full PDF article available.](#)
https://academic.oup.com/asj/article/39/Supplement_2/S67/5377467

Hemostasis

- **Ligation for hemostasis:**

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A case study of ligation techniques with videos. **(Graphic)**

<https://lacerationrepair.com/techniques/special-situations/vascular-injuries-part-i-i-ligation-techniques/>

- ***Principles of Electrosurgery:***

A short manual covers the principles of Electrosurgery.

<https://www.asit.org/assets/documents/Principals in electrosurgery.pdf>

- ***Electrosurgery self-study Guide:***

This **online module** covers the fundamentals of electricity, principles of electrosurgery, clinical applications, technologies, recommended practices, and client care during electrosurgery.

<https://www.medtronic.com/covidien/en-us/clinical-education/catalog/electrosurgery-self-study-guide.html>