

SURGICAL VERIFICATION OF PROFICIENCY

Suturing Technique Assessment Report

Suture Pattern: Vertical Mattress

Assessment Date: September 03, 2025

Assessment Result

PASS - Average Score: 3.3/5.0

Assessment Results

1. Correct deep (far-far) and superficial (near-near) passes

Score: 3/5 (Developing Pass / Generally Reliable)

Passes were consistently perpendicular with symmetric bites across the wound; deep bites reliably captured robust tissue and superficial returns were placed appropriately close to the edge. Execution appeared steady across multiple stitches without visible skiving or oblique trajectories.

2. Gentle tissue handling

Score: 3/5 (Developing Pass / Generally Reliable)

Edges were handled with a single, precise forceps grasp per side and minimal manipulation. There was no evidence of multiple regrips, crushing, or unnecessary traction on the dermis.

3. Square, secure knots

Score: 3/5 (Developing Pass / Generally Reliable)

Several knots appeared flat and well-seated with appropriate tension; however, knot formation and final security were not consistently visualized throughout the sequence, preventing full verification across all throws.

4. Balanced tension deep vs superficial

Score: 3/5 (Developing Pass / Generally Reliable)

The closure consistently showed firm deep support with superficial approximation that avoided blanching or puckering. Edge alignment remained even without evidence of strangulation or gapping under minimal tension.

5. Even spacing (0.5-1.0 cm)

Score: 4/5 (Proficient)

Inter-stitch intervals remained remarkably uniform across the length of the wound, with no crowding or excessive gaps and consistent symmetry side-to-side.

6. Proper eversion

Score: 4/5 (Proficient)

A continuous, modest ridge was maintained along the closure line, indicating reliable epidermal eversion without focal inversion or excessive “dog-ears.”

7. Economy of time and motion

Score: 3/5 (Developing Pass / Generally Reliable)

Hands and instruments stayed close to the field with smooth, purposeful movements and only rare departures; needle reloads and transitions were efficient and avoided unnecessary repositioning.

Final Assessment

Final Score: 3 - Developing Pass / Generally Reliable

Summative Comment:

The operator showed a consistent plan: deep support followed by precise superficial returns, steady forceps discipline, and careful edge management that produced uniform spacing and reproducible eversion. With fully documented knot construction and equally consistent efficiency in every transition, this performance would approach the upper tier; as shown, it represents a reliable, reproducible technique with clear strengths in spacing and eversion and sound tension modulation. The closure consistently showed firm deep support with superficial approximation that avoided blanching or puckering.

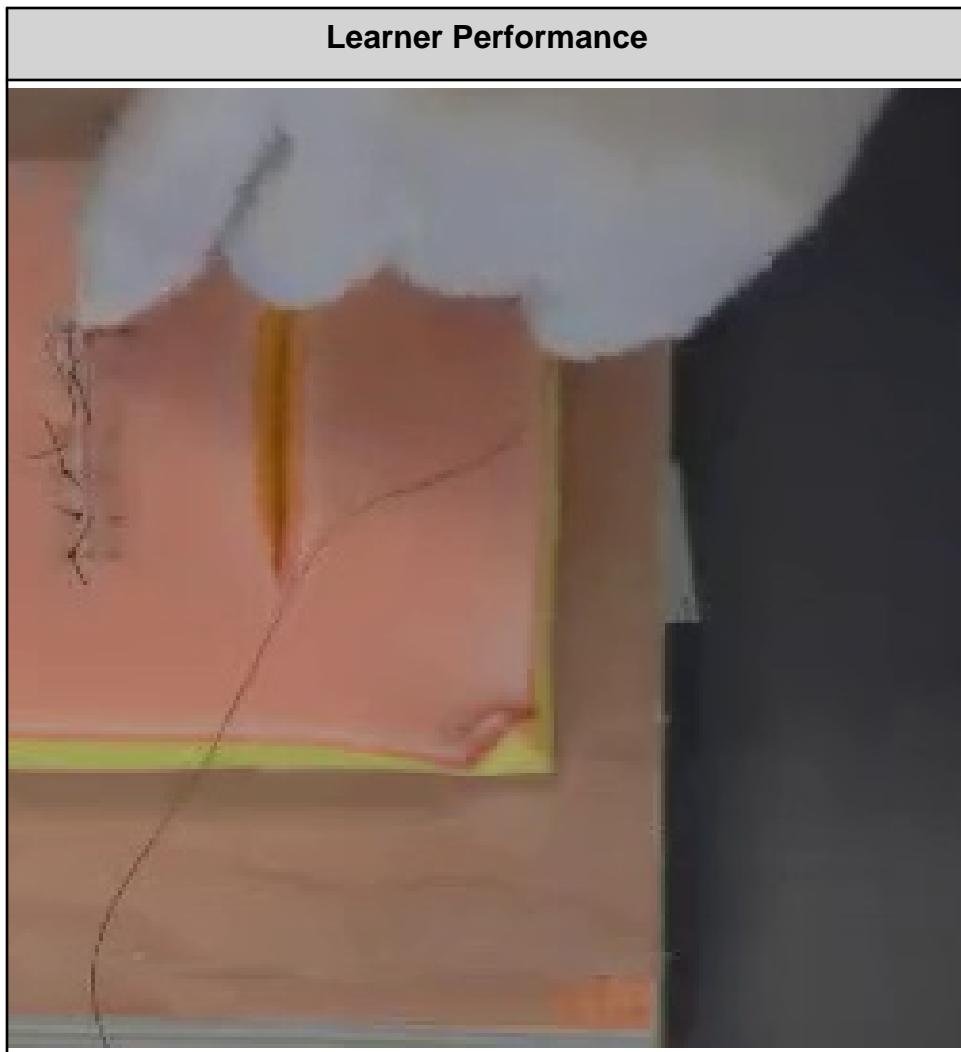
The main limitation in judging the highest tiers of performance lies in knot verification; while several knots looked flat and appropriately tensioned, complete throw sequences were not consistently seen, precluding an unequivocal endorsement of knot security across the entire run. Several knots appeared flat and well-seated with appropriate tension; however, knot formation and final security were not consistently visualized throughout the sequence, preventing full verification across all throws. Edge alignment remained even without evidence of strangulation or gapping under minimal tension.

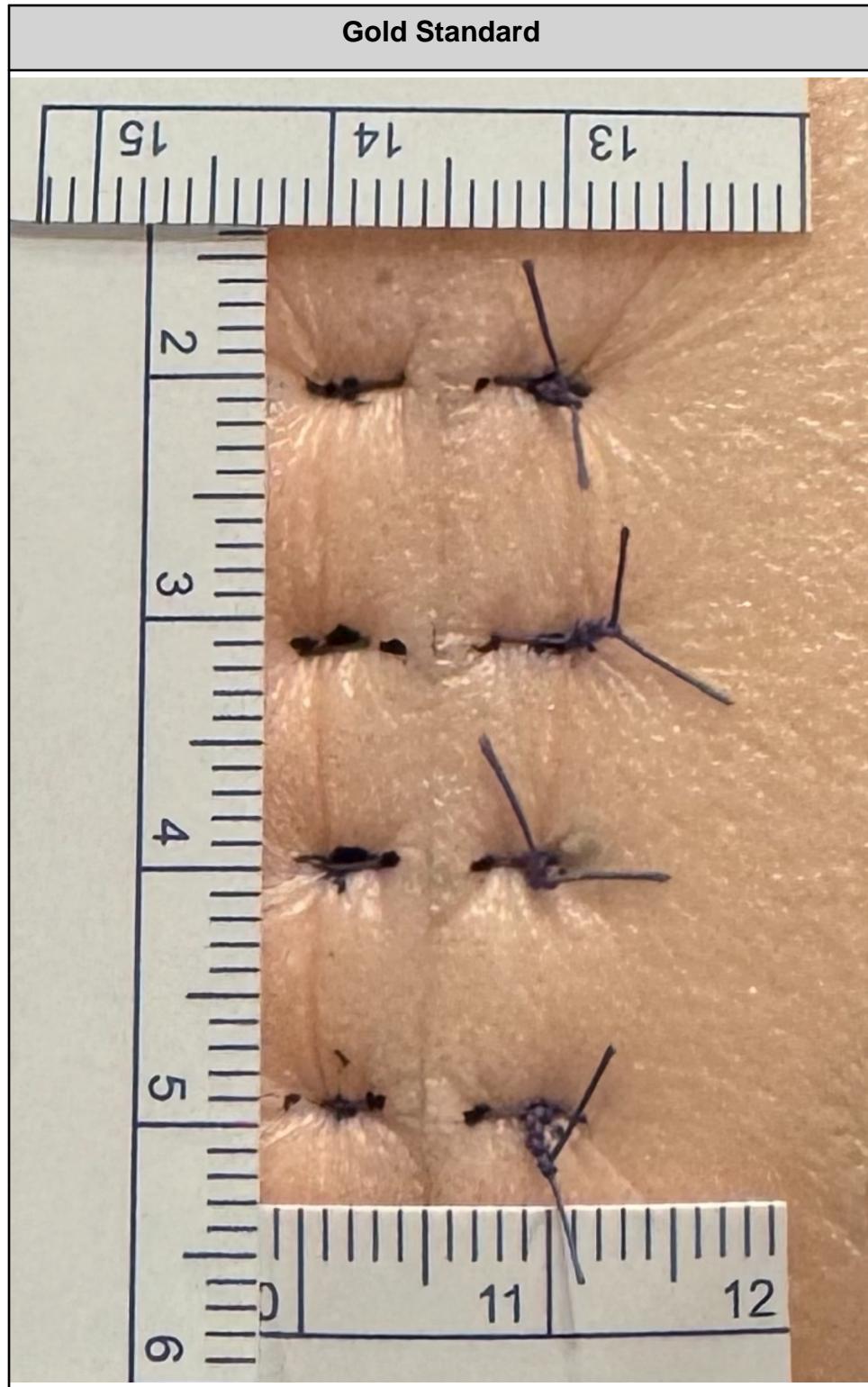
That aside, the integration of depth control, spacing, and eversion reflects solid decision-making and technical maturity. Inter-stitch intervals remained remarkably uniform across the length of the wound, with no crowding or excessive gaps and consistent symmetry side-to-side. Passes were consistently perpendicular with symmetric bites across the wound; deep bites reliably captured robust tissue and superficial returns were placed appropriately close to the edge.

Execution appeared steady across multiple stitches without visible skiving or oblique trajectories. Edges were handled with a single, precise forceps grasp per side and minimal manipulation.

Visual Comparison

Learner Performance vs. Gold Standard Comparison





Compare the learner's final result (top) with the gold standard (bottom) for Vertical Mattress suturing technique. The learner image has been automatically cropped to focus on the suturing pad area for optimal comparison. Evaluate technique execution, spacing, tension, and overall surgical craftsmanship.