

1. Stiffest stratum corneum layer

2. Epidermis interface

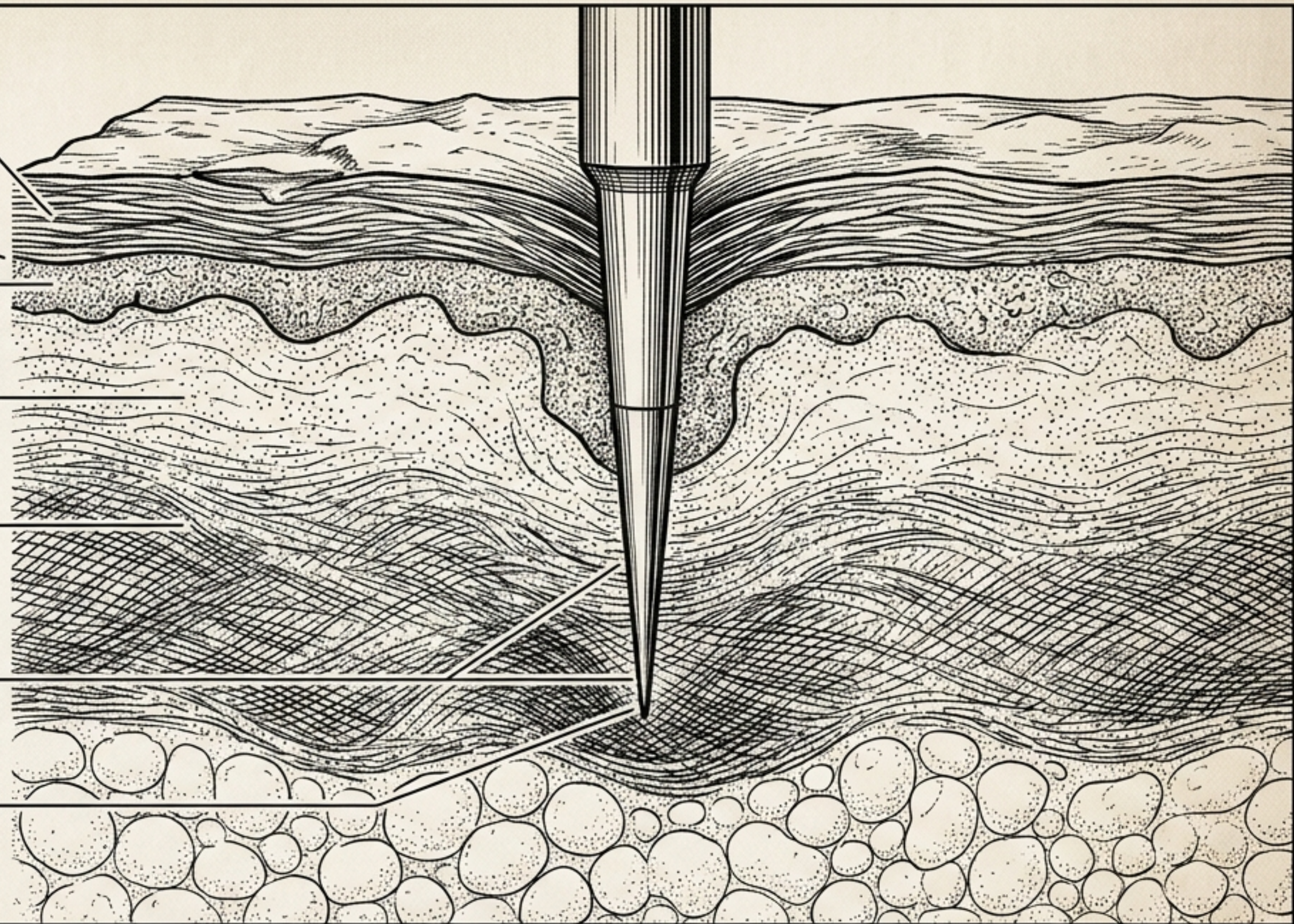
3. Softer papillary dermis

4. Denser reticular dermis

5. Softest subcutaneous fat layer

6. Progressive needle taper
geometry

7. Concentrated peak stress point



Cutaneous tissue density stratification demands matched needle parameters to prevent excessive shearing forces.

PROGRESSIVE TAPER GEOMETRY