

युग्गुयुव - इकां॥ वव

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The Contribution of Sushruta's Simulation Techniques in Empowering Clinical skills

The evolution of medical education finds its earliest roots in the teachings of Acharya Sushruta, which eventually laid a timeless foundation for practical and ethical medical training. Sushruta's educational vision reflected an advanced understanding of how skill acquisition occurs through observation, imitation and hands-on-repetition.

This innovative pedagogical approach not only strengthened technical skills but also instilled ethical awareness & patient safety.

Today's simulation labs, mannequins and virtual models echo the same philosophy envisioned by Sushruta a thousand years ago. His simulation methods effectively bridged the gap between classroom knowledge and clinical execution, ensuring development of a surgeon. In the current era of simulation labs and skill-based assessment, Sushruta's ancient wisdom continues to serve as a guiding principle. His approach empowered learners to progress from simulated models to real life surgery. Thus, Sushruta's contribution remains a timeless model for empowering clinical skills through structured and ethical training. Sushruta introduced structured experimental learning to ensure patient safety and skill proficiency. His disciples were instructed to practice surgical procedures such as Incision, Suturing, Probing, Bandaging etc. on natural substitutes.

His emphasis on simulation minimized patient risk while enhancing psychomotor and decision-making skills.

In this way, Sushruta's visionary contribution continues to inspire contemporary clinical training by bridging theoretical knowledge with practical competence through structured simulation. Our institute has integrated simulation-based training across Shalyatantra Department, including procedures like surgical suturing, dressing as well as emergency management.

Every simulation session is followed by a structural debriefing, helping students to analyze & improve their performance.

The goal of this initiative is simple yet profound to produce confidence and compassion of the health care professionals to ensure clinical excellence.

Techniques and Simulations of Sushruta in Improvising the Skills

In a manner analogous to workshops on surgical techniques, students were expected to hone their skills on the various materials which simulates with the actual conditions. E.g. Art of bandaging or ligaturing should be practically learnt by tying bandages around the specific limbs and members of a full-sized doll of stuffed linen.

List of Simulators present

1. Bandaging Technique on Manikin
2. Prostate examination Simulator
3. Fistula examination Simulator
4. Hemorrhoids examination Simulator
5. Incision Taking model
6. Suturing and knot tying model
7. I.V. Cannulation Model
8. Hydrocele Model
9. Phimosis Model
10. Agnikarma Shalaka Set
11. CPR Simulator
12. Female Breast Tumour and Abscess Model
13. Episiotomy and Cervical Stitch Simulator

Staff Demonstrating ADULT CPR on Manikin



Staff Demonstrating Agnikarma Techniques



Staff Demonstrating the Suturing Techniques and Knot Tying Methods



Staff Demonstrating Intravenous Cannulation on Manikin



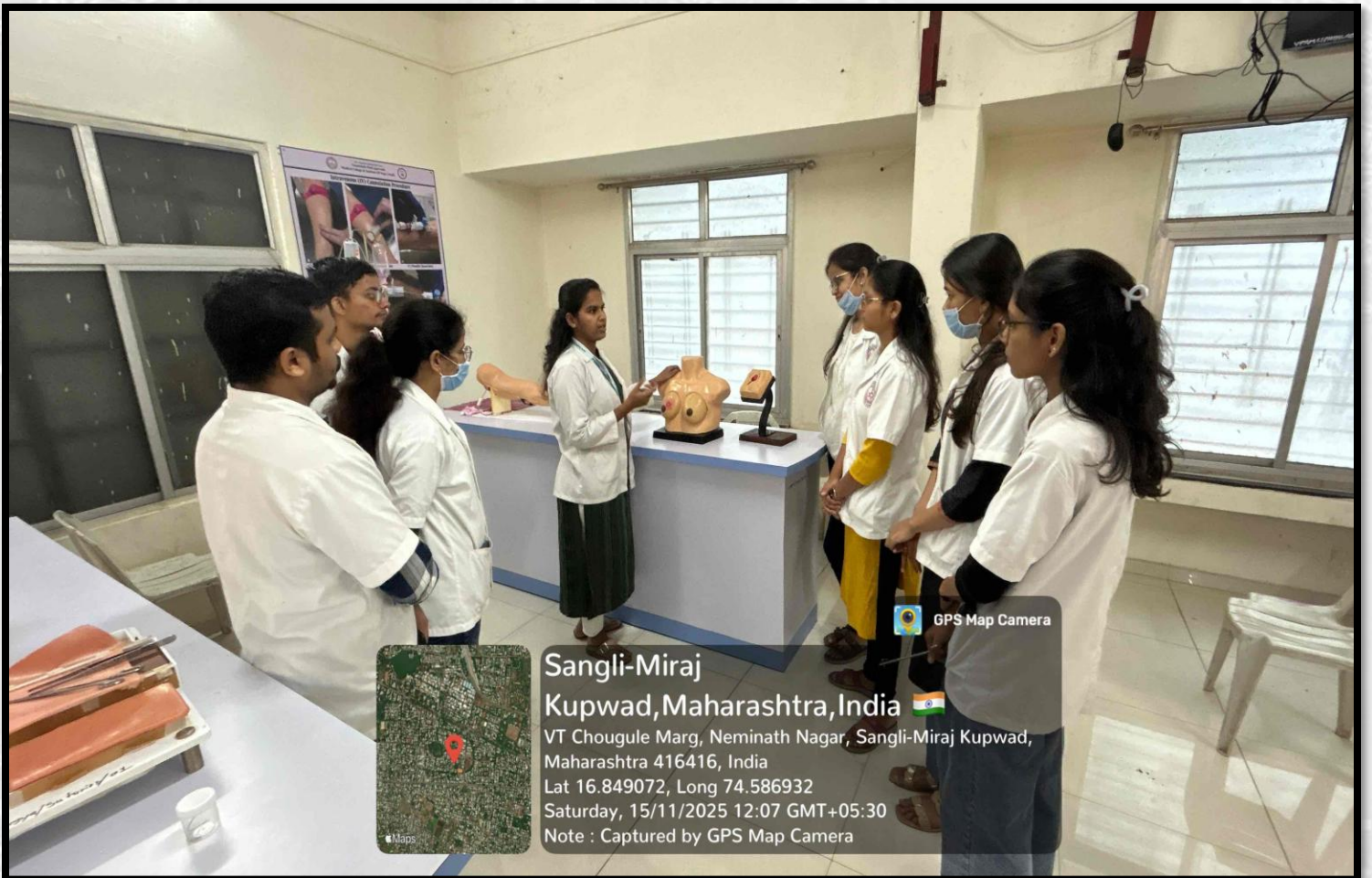
Staff Demonstrating DC Shock Technique on Manikin



Staff Demonstrating Intubation Technique on Pediatric Manikin



Staff Demonstrating Breast Diseases on Manikin



Staff Demonstrating Diseases of Eyeballs on Model



Staff Demonstrating Different Marmas on Manikin

