3D-PRINTED ANESTHESIA TRAY

Product Guidelines

→ Designed to enhance patient safety in the operating room, this 3D-printed tray system standardizes the organization and preparation of anesthetic medications.

DESCRIPTION

Developed in collaboration with the Department of Anesthesia and Intensive Care at IRCCS Humanitas Research Hospital, the device utilizes visual and spatial cues to reduce cognitive load and human error during drug administration.


KEY FEATURES & PATHOLOGIES

- Standardized Workflow: Specifically designed to organize medication preparation, addressing the lack of standardized practices in anesthesia carts.
- Cognitive Support: Features a compartmentalized spatial layout with specific color-coding to support anesthesiologists during high-pressure situations, long shifts, or low-lighting conditions (laparoscopy).
- ISO Compliance: The color-coded compartments adhere to ISO 26825:2008 standards and JCI suggestions for medication labeling, ensuring immediate visual recognition.
- Sustainable Design: Produced via cost-effective 3D printing technology, offering a sustainable and customizable alternative to expensive commercial trays.

ANATOMICAL COMPOSITION

Color Coding:

RED → Neuromuscular Blockers
LIGHT BLUE → Opioids
GREEN → Postoperative Antiemetics
ORANGE → Sedatives (e.g., Midazolam)
GREY → Local Anesthetics
DEDICATED SLOT → Induction Agents
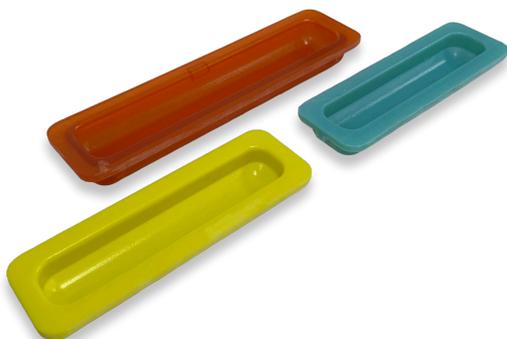
WARNINGS AND SAFETY

Intended Use: Routine intraoperative anesthetic drug administration.