**ICITAAC 2024 Hackathon Challenges**

**Suggest innovate solutions for these challenge Questions**

1. **Needle Stick Injury Prevention:**
	* Needle stick injuries are a significant hazard in critical care and anesthesia, posing severe risks to healthcare providers. Develop strategies or tools to effectively prevent these injuries.
2. **Endotracheal Tube Change in ICU:**
	* Changing endotracheal tubes in the ICU is a delicate procedure that carries significant risks, including potential dislodgement or infection. Propose an innovative solution that simplifies and secures the process, minimizing risks to both patients and healthcare providers.
3. **Suction Failure During Surgery:**
	* Suction systems in the OT can fail at critical moments due to low pressure or blockages in the pipes. Propose a robust solution to prevent such failures and ensure continuous functionality.
4. **Difficult Intubation Situations:**
	* Loss of vision due to the laryngoscope light switching off during intubation can be life-threatening. Propose solutions to ensure uninterrupted visibility during these procedures.
5. **Maintaining OT Sterility:**
	* Frequent opening of OT doors to retrieve forgotten items disrupts both the functionality and sterility of the environment. Suggest ways to better organize OT space to reduce these interruptions.
6. **Pathology Report Delays:**
	* Reports in the OT sometimes get delayed, even though they were released much earlier by the pathology department. Propose a system to ensure timely delivery of critical reports when needed most.
7. **Shifting Patients from Bed to Wheelchair:**
	* Safely and efficiently moving patients from bed to wheelchair can be challenging. Suggest methods to streamline this process and reduce physical strain on staff.
8. **Designing an Ideal ICU Bed:**
	* Defecation in the ICU is a significant challenge, as it is least physiological in the supine or lateral positions. Additionally, daily care activities like hair care pose difficulties. Provide an advanced design for an ideal ICU bed that facilitates more natural and comfortable processes for patients, addressing defecation, hygiene, and other daily care needs.
9. **Disposal of Unused Anesthesia Drugs:**
	* Unused portions of anesthesia drugs need to be disposed of properly to avoid waste and environmental hazards. Suggest safe and efficient methods for disposing of these drugs within the OT.
10. **Enhancing Communication During Emergencies:**
	* Communication breakdowns during critical moments in the OT or ICU can lead to delays and errors. Propose a reliable communication system or protocol that ensures seamless information exchange during emergencies, even in high-stress environments.

**Note : If you would like to propose a challenge question, please send your suggestion to Dr. Anshul Jain at dranshuljain81@gmail.com.**

**ICITAAC 2024 Hackathon participation Submission Guidelines**

1. **Any one who is registered in ICITAAC as delegate/faculty can**
2. One applicant can submit solutions in only two categories. Separate submissions are required for each category.
3. **Submission Requirements:** You must submit a summary of your innovation solution as per the provided template before **10th October 2024**
4. **Presentation Requirements:**
	* After shortlisting, participants will be required to develop a PowerPoint presentation consisting of 10 slides.
	* At the time of the presentation, shortlisted participants will present their solutions based on the developed PowerPoint.
5. **Contact Information for Queries:**
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