

SafeTuck

Safe. Simple. Secure.

VOLZ SURGICAL CONSULTING + VENTIS PHARMA

Manufacturer registered and device listed with FDA

Distributed By:





CURRENT PROBLEM

- Difficult to securely tuck the arms with a sheet (particularly in the obese)
- Poorly secured arms/legs may come loose placing patient at risk for injury
- Tucking the arms can be time consuming
 - (2-10 minutes/case) and require multiple (2-4) staff members
- Accessing the arms during surgery can be very difficult and the arms are not able to be adequately/safely tucked back in again
- Additional disposable padding/sheets are used to protect the patient's joints/limbs



CURRENT PROBLEM

- Every surgical procedure requires a restraint to secure arms/legs to prevent injury
- Arms are either placed on arm boards or tucked at the patient's side
- Tucking arms at the sides is becoming increasingly common with increasing demand for laparoscopic/robotic procedures
- Current system utilizes sheets that are wrapped around the arms or a 'sled device'



CURRENT PROBLEM

- If poorly tucked, a sedated patient's arm may come loose and they may reach into the sterile field
- Safety concerns for patients - arm or leg becomes dislodged intraoperatively
- Safety concerns for staff - rolling obese patients to tuck arms
- Sleds are difficult to place, arms are not accessible by anesthesia and may interfere with robot
- Erroneous blood pressure, dislodged IV
- No method to secure limbs in sterile field

Current Competitor: “Status Quo” = Sheets, Towels, & Pads





Proposed Solution

- SafeTuck securely wraps each limb to secure it during surgery
- Easy and quick to apply requiring only one staff member to secure the patient
- Allows easy access to the arms by anesthesia during the case with easy and safe re-positioning



Proposed Solution

- Incorporated padding to eliminate the need for additional padding expense
- Does not require a storage rack and can be stored on the OR bed
- Rigid enough to protect the limbs from injury
- Strong enough to support obese arms and legs and keep patients from getting free when sedated/confused
- Easily to clean without the need for significant time during room turnover



Solving Problems in the Operating Room



Reduce Turnaround Times

Sheet tucking a patient's arms can take as long as 10 minutes. SafeTuck can be securely fastened to the OR table in as little as one minute.



Reduce OR Costs

SafeTuck reduces operating room times and disposables costs, anticipated to save \$135K-\$1M per room per year depending on usage.



Reduce Patient Risks

SafeTuck decreases the risk of patient limb injuries related to limbs untucking during surgery, commonly leading to dislodged arms or legs.



Easy Intraoperative Arm Access

SafeTuck provides a workspace for anesthesiologist to rest a patient's arm, to start IVs or Art lines and for quick adjustments of tucked arms.

Value Opportunity for Facilities



- Improve patient positioning safety
- Improve staff safety/satisfaction
- Improve anesthesia experience/satisfaction
- Save time/staffing with turnover
- Decrease disposables in OR
- Improved surgeon satisfaction
- Cost savings of disposables, decreased turnover time



Value Opportunity for Facilities

- 3 cases/room/day > 750cases/room/yr
- Cost Savings - Disposables
- \$2-4 per case in extremity padding
- \$1500-\$3000 disposable savings/year
- Cost Savings - OR time
- Savings of 2-10 minutes of OR time
- \$90-150/minute - \$180-1500/case
- \$135,000 - >\$1M in OR time savings/room/yr

Current OR Room Expenses



- Disposables
 - Padding – 2-4 sets of padding per patient/case - \$2-3/set – \$4-12/case
 - 1-3 Sheets/towels to secure arms - \$2/case
 - Velcro Straps to hold arms to arm boards – 2\$/arm – 4\$/case
 - Total – \$6-14/case



- 2-4 employees spending 2-15 minutes to position/case
- Supply management – 5 minutes per case
- 10-60 employee minutes per case – Avg. – 15 employee minutes/case
 - Avg. 1\$/employee minute - \$10-60/case
- OR time – 2-15 minutes/case
 - Avg. \$90-150/minute
- Anesthesia/Intraoperative Time for Limb Repositioning
 - Avg. \$90-150/minute
- Total \$200-2000/case



- Patient Injury – Dislodged limb, Nearly every OR employee has experienced an intraoperative dislodged limb
- Staff Injury – Rolling and positioning patients to secure arms/legs
- Cost per event - \$100,000 - \$2,000,000



Expense Summary

- Total cases/OR – 3 cases/day – 750 cases/OR/yr
- Disposable Expenses - \$6-12/case – \$4500-9,000/yr
- OR Time Expense - \$200-2000/case - \$150,000-1,500,000
- Liability Risk - \$100,000 - \$1,000,000/yr
- Total Hard Expenses – Est. Avg. - \$7,500/yr/room
- Total Soft Expenses – Est. Avg. - \$250,000/yr/room

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