Utilization of the MUNRO Risk Assessment Tool for Prevention of Perioperative Acquired Skin and Pressure Ulcer Injuries

**BACKGROUND**
- Hospital acquired pressure injuries (HAPI) is the development of pressure injury during hospitalization
- Complications of HAPI include: increased pain, longer length of stay or re-admission, possible surgical intervention, disfigurement, and decreased quality of life
- Medicare and Medicaid Services do not reimburse costs for HAPI
- Proper positioning during the intraoperative period helps to prevent skin and pressure ulcer injuries
- Perioperative team must be aware of all risk factors the patient has for developing pressure injuries to ensure proper interventions pre-op, intra-op, and post-op

**PURPOSE**
- The purpose of this project was to use the MUNRO Tool perioperatively (Preop, OR, PACU) as a risk assessment tool and to develop proper intervention and prevention strategies intraoperatively to lower the incidence of skin and pressure injury

**METHODS**
- Design: Evidence-based, quality improvement
- Study sample/population: Patients undergoing surgery for 2 hours or more
- Procedure:
  - Increased staff education regarding skin issues
  - Medical record audit using MUNRO Risk Assessment Tool of 28 patients -7 months
- Data collected included:
  - Audits of records from surgical procedures
  - Audits of records of patients with ‘skin events’ for:
    - Type of skin event
    - Risk factors associated with skin events
    - Protective measures that were initiated
  - Specific audits of patients on the Dabir Surface Mattress

**RESULTS**
- Sample N=28
- Risk Levels:
  - Preoperative Risk = (low) N = 4 (14%), (moderate) N = 24 (86%)
  - Intraoperative Risk = (moderate) N = 14 (50%), (high) N = 14 (50%)
  - Postoperative Risk = (low) N = 2 (7 %), (moderate) N = 26 (93%)
- Post education:
  - No recorded pressure ulcer injuries intra-op in 2020
  - Skin tears reduced
  - Staff are more aware of perioperative HAPI cause, effect, intervention, and prevention
  - Dabir Surface Mattress introduced in April 2021 for a trial of prevention of perioperative acquired skin and pressure ulcer injuries

**DISCUSSION**
- The evidence-based practice change was facilitated by multi-disciplinary communication
- 2021-2022 implementation of the tool in all perioperative areas provides expanded surveillance and the opportunity to reduce risk of skin issues

**CONCLUSIONS**
Utilization of the MUNRO Risk Assessment Tool results in benefits for most patients; it allows the development of proper intervention and prevention strategies intraoperatively to lower the incidence of skin and pressure injury

**REFERENCES**
available on request: Jenny.ly@stjoe.org