

PATIENT 1

Procedures: Heated High-Flow Nasal Cannula, Nasogastric Tube, Internal Jugular Central Line

Helmet Facilitation* (*based on feedback from medical team)

- Environment inside helmet was comfortable for patient
- Caused no issues with breathing, communication, or claustrophobia
- Face shield easily opened and closed, allowing for staff to provide oral care, nutrition, hygiene, and to access airway, suction, and secretion management
- Helmet easy for staff to apply and remove

Feedback from Medical Team

Patient experienced no issues with breathing or claustrophobia when helmet was placed. Had right internal jugular central line as well as nasogastric tube in addition to heated high flow nasal cannula and helmet able to be placed without disrupting any therapeutic adjuncts. Mask easily opened and closed and didn't seem to affect patient's breathing in either position. Noise from motor was not an issue and patient was able to communicate with the team without difficulty. Helmet removed after 75-minute trial with no issues.

Respiratory Therapist

Thought the design of the helmet was great. Was able to place helmet on patient without issue and felt it would not interfere with delivery of any respiratory treatments/therapy.

Nursing

Able to access nasogastric tube and central line in neck without difficulty and without any adjustment of the helmet. Liked that the face shield easily opened and that they could provide oral care, nutrition, hygiene and access airway, suction, secretion management if needed. Nurse was easily able to remove helmet without assistance or complication.

Patient resting comfortably giving "thumbs up"

Nurse removing helmet without assistance

PATIENT 2

Procedures: Heated High-Flow Nasal Cannula

Helmet Facilitation* (*based on feedback from medical team)

- Comfortable for patient; Patient could use cellphone with helmet on
- Worked well with prone positioning
- Mask easily opened and closed
- Helmet easy for staff to apply and remove

Feedback from Medical Team

Respiratory Therapist

Thought design "made everything much easier." Was able to transport patient from resus bay to EC3 room without disconnecting heated high flow oxygen delivery.

Nursing

Was able to transfer patient from ED stretcher to ICU bed in EC3, and patient was able to prone on their own with little assistance. Nurse was easily able to remove helmet without assistance or complication.

Patient prone and tolerating well