

13 January 2020

Distributed to:

- Chief Executives
- Directors of Clinical Governance
- Director Regulation & Compliance Unit

We recommend you also inform:

- Radiology Networks
- Radiology Heads of Departments / Units
- Angiogram suites
- Nurse/Midwifery Unit Managers
- Nursing/Midwifery Staff
- Directors of Nursing and
- Directors Allied Health
- Relevant Allied Heath staff
- Managers of Linen Services

Expert Reference Group

Content reviewed by:

Midwifery

- HealthShare NSW
- Clinical Excellence Commission

Consultation:

Agency Clinical Innovation

HealthShare NSW

Tel. 02 8644 2000 Fax. 02 9904 6296

Email: <u>HSNSW-</u> <u>patientsafety@health.nsw.go</u>

Internet Website:

https://www.health.nsw.gov.a u/sabs/Pages/default.aspx

Intranet Website http://internal.health.nsw.gov. au/quality/sabs/

Review date

June 2020

Safety Information 001/20

Use of linen in radiological procedures - potential artefact

Blue blankets

Concerns were raised to HealthShare NSW regarding the use of blue synthetic blankets during x-ray procedures, including mobile x-ray, general x-ray, fluoroscopy and angiography as they may result in artefacts presenting in the image. These artefacts may be interpreted as pathology and may impact patient clinical assessment and outcomes.

The use of any blankets and bed linen during imaging may result in artefact in images. However, the previously used white blankets had a noticeable 'cross hatched' pattern which allowed clinicians to detect the presence of the blanket while reviewing and reporting on images. The blue blankets do not have any distinguishing features to alert to their presence.

Linen Radio Frequency Identification Device (RFID) tags

It has been identified that the RFID tags in some aties cowns, pillow cases, and sheets also have the potential to result in artefact during in a ring.

Testing and assessment

Testing was undertaken to investigate the use of blue synthetic blankets during radiological procedures compared to the use of whit control blankets.

The testing confirmed that the blue blacket was more likely to present a non-uniform image, particularly at the point oner blacket fold lines appeared. This makes it difficult to delineate the synthetic blue blacket are fact from the underlying patient pathology. The level of artefact increased with cultiple layers or folds in the blanket.

This has the potential three and clinical errors and compromised patient outcomes.

Action

Blue synthetic by akets will be removed as an order item for all imaging departments across ASW a palt. Whate cotton blankets will be offered as an alternative interim solution to be used in imaging departments as required.

As blue synthetic blankets are used and returned to HealthShare NSW Linen Services from race departments, these will be replaced with white cotton blankets through the normal ordering processes via Linenweb.

Due to the increased risk in Radiology departments, their linen supplies are being addressed in the first instance whilst a longer term solution is sourced.

Clinical recommendations

- Where possible, remove or minimise linen from imaging field during any radiological procedure, including mobile x-ray, general x-ray, fluoroscopy and angiography
- If blankets or covers are required, do not use blue blankets and ensure minimal folds, bunching or creasing of the covering to reduce artefact

For any questions regarding this change, contact: Customer Service Team, Linen Services on 1300 477 546 or HSNSW-LinenOrders@health.nsw.gov.au. Alternatively contact: Deborah O'Toole, Manager, Linen Customer Relationships m: 0402 251 333 deborah.otoole@health.nsw.gov.au

Suggested actions by Local Health Districts/Networks

- 1. Forward information to appropriate areas for information and action.
- 2. Ensure a system is in place to document actions taken.