



HCAI Technology Innovation Programme
Showcase Hospitals Combating Infection
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How clean is your mattress?

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The solution or the problem?



Pressure ulcers



- £1.4-£2.1 billion
(Bennett et al, 2004)
- Important measure of quality
- Support surfaces are an important component of pressure ulcer prevention & management



What do we need a mattress to do?

- Pressure relief/ reduction
- Infection prevention & control
- Manual handling
- Patient comfort
- Cost effective
- Suitable for most patients e.g. weight
- Robustness & fit for purpose



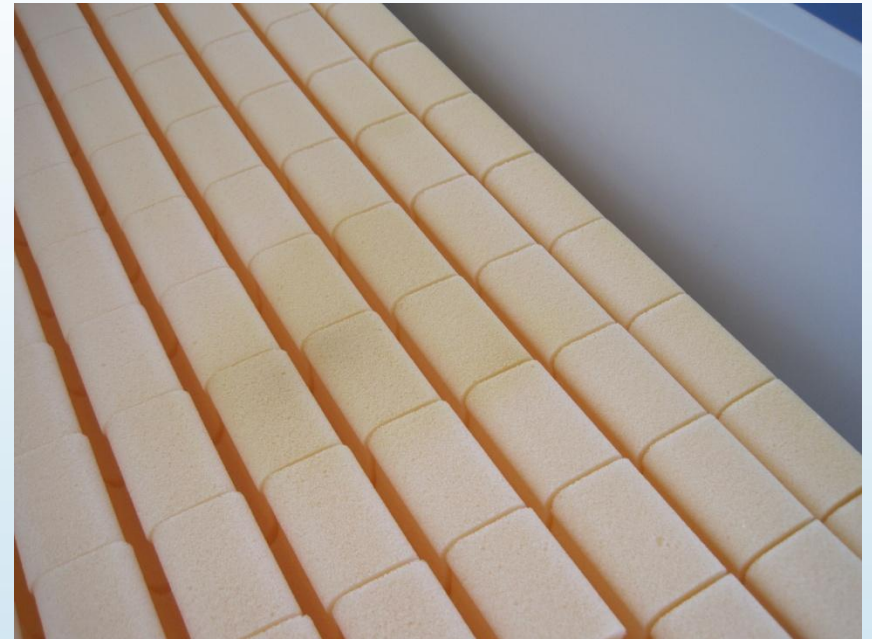
Properties

- Covers
 - Vapour permeable
 - 2 way stretch
 - Facilitates inspection
 - Ease of cleaning
 - Infection prevention properties
- Internal properties e.g. castellated foam
 - Pressure reducing properties



The problem





Don't judge a mattress by its cover

MHRA

Calm surface



- Inspect the exterior surface of each mattress cover for signs of damage, such as holes or cuts.
- Remove the cover and inspect its inside surface and the mattress core for staining or contamination.
- Safely dispose of any covers showing signs of damage or staining
- Arrange for contaminated mattress cores to be cleaned and decontaminated in accordance with the manufacturer's instructions or safely disposed of.
- Ensure that a frequent inspection regime is established for all mattresses.

What lies beneath



Do the user instructions for the mattress properly describe how to inspect, clean and decontaminate it? If not, tell us about it by reporting it as an adverse incident.

**Report adverse incidents online www.mhra.gov.uk
or on email aic@mhra.gsi.gov.uk
or telephone 020 7084 3080**

Medicines and Healthcare products Regulatory Agency
An executive agency of the Department of Health

Bedknobs & broomsticks: The life of a mattress

- What we were doing
- What we do now
- ✓ Storage
- ✓ Transportation
- ✓ Annual audit & spot checks
- ✓ Training & support for all staff



- ✓ After use **all** mattresses & cushions are cleaned and inspected externally and internally for wear and tear and evidence of ingress
- ✓ If necessary - condemn as per waste regulations or external decontamination
- ✓ Bag & tag – colour coded
- ✓ Liaison with procurement
- ✓ Policies & procedures



AIR MATTRESS CLEANING

GENERAL CLEANING

1 Air mattress either going into store or for repair


2 The mattress must be cleaned inside and out with Tristel fuse (this product replaces chlor-clean and haz-tabs). Please ensure disposable gloves and apron are worn prior to cleaning the mattress

3 Clean the electric box with a detergent wipe and place this with the mattress in the extra large clear plastic bags provided by EBME at HRI and equipment room Ward 6 at CRH

4 Complete decontamination sticker and attach to plastic bag

5 Contact portering services for mattress to be removed to the designated area

DECLARATION OF DECONTAMINATION



BIOHAZARD

	YES	NO
Possible contamination with blood or body fluids	<input type="checkbox"/>	<input type="checkbox"/>
Other Contaminants		
Please state		
DECONTAMINATION METHOD		
(1) Soap & Water	<input type="checkbox"/>	<input type="checkbox"/>
(2) Hypochlorite 1%	<input type="checkbox"/>	<input type="checkbox"/>
(3) Hypochlorite 0.1%	<input type="checkbox"/>	<input type="checkbox"/>
(4) Other - please state		
Ward/Dept Site		
Sign		
Print Name Date		
If unable to decontaminate - contact Infection Control Department Calderdale & Huddersfield NHS Foundation Trust		

SPECIALISED CLEANING

(C difficile; heavily soiled or from an outbreak ward)

1 The mattress must be cleaned inside and out with Tristel fuse (this product replaces chlor-clean and haz-tabs) Please ensure disposable gloves and apron are worn prior to cleaning the mattress

2 Copy down the **serial** number onto the decontamination sticker

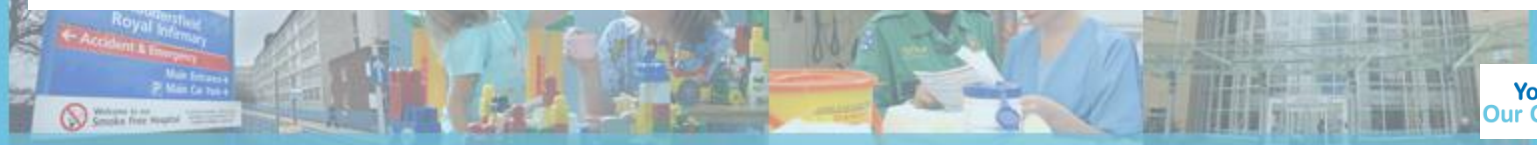
3 Place the mattress only (**not the electric box**) in red plastic 'contaminated mattress bag' provided by EBME at HRI and equipment room Ward 6 at CRH

4 Complete the decontamination sticker **stating the mattress serial number** and attach to the red plastic bag

5 Clean the electric box. Place it in a separate clear bag and attach a yellow decontamination sticker. Then place it with the mattress, inside the mattress bag.

6 Contact portering services for mattress to be removed to the designated area

Always make sure that all mattresses & equipment are cleaned & a decontamination sticker attached before they leave the ward.



PROCESS FOR CHECKING FOAM MATTRESSES, AND FOR CONDEMNING IF NECESSARY

To be carried out after each patient, or when mattress is to be taken off bed (i.e. when air mattress is needed instead).
If you have any doubts/queries about a mattress/this process, please call Marc Neal or Jenni Garlick, Equipment Co-ordinators

This is a list of bags that should be kept on your ward; extra stock is kept in the clean mattress stores at both sites. Please ensure that you *always* use the correct bag:

✓ **CLEAR** (thin, large size): for **CLEAN** foam mattresses *only*

✓ **YELLOW** (thin, large size): for **CONDEMNED** foam mattresses *only*

✓ **CLEAR** (thick, smaller size): for **CLEAN** air mattresses *only*

✓ **RED** (thick, smaller size): for **DIRTY/CONTAMINATED** air mattresses in need of deep-cleaning *only* – if mattress needs repair, clearly attach note to bag stating the problem

1. Clean and check the mattress as per bed cleaning protocol.

2. Breaches or staining found?

3A. **Yes:** Zip cover back up, take off bed, put in yellow bag, mark bag with your ward and date, plus date mattress went into service (marked in marker pen on outer cover on side of mattress) and leave a message of HRI x5396 to report before calling porters to remove.

**To move mattresses, call porters on:
x7167 (HRI) or x4600 (CRH)
Porters should collect all mattresses within one hour**

3B. **No:** Zip cover back up. Is it staying on bed?

4A. **Yes:** Ensure mattress is checked as per protocol (on discharge or when mattress removed from bed or if patient incontinent risk assess and check twice weekly).

4B. **No:** (i.e. if air mattress needed for patients with or at *very high risk* of Pressure Ulcers) Take off bed, put in **clear bag**, attach yellow decon sticker and call porters to take to clean mattress store for storage – **do not leave lying around on ward/corridors!**

N.B. Ensure that no sharp objects (e.g. syringes, scissors, cot sides) are placed on or near mattress as they may tear cover.



What next? - My wish list

