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The safe use of ultrasound gel to reduce infection risk

Date of issue:	11/11/2021	Referen	ce no:	NatPSA/2021/010/UKH
This alert is for action services; clinicians and				endent) of facilities providing ultrasound ractice
	quivalent role in orga	inisations without	execut	mplementation should be co-ordinated utive boards) and supported by clinical procurement.
Explanation of identifi	ed safety issue:		Act	ctions required
Ultrasound gel is availa preparations. Non-steril associated with contam various settings worldw UKHSA (formerly Public a long-standing outbreat to a non-sterile ultrasout the UK and Ireland. <i>B. o</i> environment and typica low virulence and an op been associated with co- products. Cases spanned a wide hospitalised patients in for in critical care setting isolated from patient sa blood, body fluids) or we invasive (e.g. retrieved The nature of samples a that there were a range some cases with seriou of deaths attributed to <i>B</i> it is possible that it may some patients. <i>B. cepacia</i> was recover brand of ultrasound gel Pulsed-field gel electrop sequencing indicated the closely related, consisted The investigation highlig a lack of guidance on the mitigate risks associate NHS Supply Chain have <u>customer notice</u> . Interim ultrasound gel was issu February 2021 and upd UKHSA in November 20	e ultrasound gel has ination and outbreak ide. c Health England) has ide of <i>Burkholderia ce</i> nd gel product used <i>cepacia</i> is widesprea lly considered to be portunistic pathoger ontaminated medicin age range and were England including in gs. Most isolates (<i>B.</i> mples) were from ste ere otherwise consid from the lower respin and available inform of clinical presentat s illness. Although w <i>B. cepacia</i> infection in have been a contrib ed from multiple san from Trusts from ac ohoresis and whole g at gel and case isola ent with a common s ghted issues in clinic to safe use of ultraso d with these product an guidance on the sa ed by Public Health ated guidance was i	a been as of infection in as identified that <i>pacia</i> is linked in hospitals in ad in the an organism of h, though has al and hygiene predominantly dividuals cared <i>cepacia</i> erile sites (i.e. dered to be ratory tract). ation indicated ions including <i>ve</i> are not aware n this outbreak, butory factor for hples of a single ross the UK. genome ates were ource outbreak. al practice and bund gels to s.	1. R trair ens for s a. <u>S</u> con i. ii. iii. iv. v. vi. vii. vii. vii.	 undertaken in the following 24 hou in labour where there is high likelil of C-section or use of invasive instrumentation during delivery where there is contact with or nea non-intact skin where the ultrasound examination near to an indwelling invasive dev where there is contact with mucou membranes (sterile gel to be used inside and outside of probe covers for severely immunocompromised patients

For any enquiries about this alert contact: NatPSA@phe.gov.uk

Additional information:

Organisational implementation of this alert is aligned to the guidance recommendations outlined in the full version of the <u>UKHSA guidance for the safe use of ultrasound gel</u>.

General principles for the safe use of ultrasound gel:

For both sterile and non-sterile gel:

- ensure healthcare workers carry out hand hygiene before and after use of ultrasound gel
- ensure gel is stored according to manufacturer's instructions in an area that is dry and away from potential sources of contamination
- dispose of a gel container if it appears soiled, is damaged or is out of date

For sterile ultrasound gel:

- ensure that only unopened sachets and containers that are labelled as 'sterile' are used
- do not reuse the container or sachet once opened, either with other patients or stored and reused with the same patient, as sterile gels are for single use only

For non-sterile ultrasound gel:

- do not decant gel from a larger container into other bottles
- use single use sachets or pre-filled, multi-patient disposable bottles; ensure pre-filled disposable bottles are not re-filled
- once opened, date the bottle and dispose of it when either empty, after one month or on expiry date, whichever comes first
- clean the whole bottle, including the tip, with a disinfectant wipe between uses
- ensure the tip/nozzle of the bottle does not come into contact with anything; if it does, clean
 immediately with a disinfectant wipe
- after the procedure remove all residual gel from the patient's skin and advise patients to wash area when feasible
- if an invasive procedure is subsequently undertaken within 24 hours of the use of non-sterile gel at or near to the site, then ensure all residual gel is removed, and the skin is thoroughly cleaned using antiseptic skin preparation in line with local policy for the procedure (Note: use of sterile ultrasound gel is required in advance of invasive procedures)

The warming of gel is not recommended unless there is a clinical benefit that outweighs applying gel at room temperature. Where warming of gel is performed:

- use dry heat warmers instead of warm water
- ensure gel bottles are kept upright in warmers and not inverted
- clean warmers regularly according to the manufacturer's instructions, where these exist, or clean according to local guidance

Stakeholder engagement

UKHSA have consulted with the following organisations and societies to develop this National Patient Safety Alert: The Medicines and Healthcare Products Regulatory Agency, the Department for Health and Social Care, NHS England and NHS Improvement, Public Health Wales, NHS National Services Scotland, Public Health Agency Northern Ireland, NHS Supply Chain and patient and public representatives.

Advice for Central Alerting System (CAS) officers and risk managers

This is a safety critical and complex National Patient Safety Alert. In response to <u>CHT/2019/001</u> your organisation should have developed new processes to ensure appropriate oversight and co-ordination of all National Patient Safety Alerts. CAS officers should send this Alert to the executive lead nominated in their new process to coordinate implementation of safety critical and complex National Patient Safety Alerts.