

Chlorhexidine- a cause of allergic reactions in blood donors



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NHS Blood and Transplant

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Disclaimers: None

Caring Expert Quality

Background

Around 1.8million blood donations are collected by NHSBT annually

Since 2006, ChloraPrep (2% Chlorhexidine gluconate and 70% Isopropyl alcohol) is the only skin disinfectant used

Allergic or irritation skin reactions are very rare (<1/10,000)

Registing Vectors and Vector

Reactions are reported via the Yellow Card Scheme to the Medicines and Healthcare products Regulatory Agency(MHRA).

Aim of this study:



Blood and Transplant



Identify scope for improvement

Improve donor safety

Review incidence in blood donors





Methodology



All relevant policies, documents and practices were also reviewed



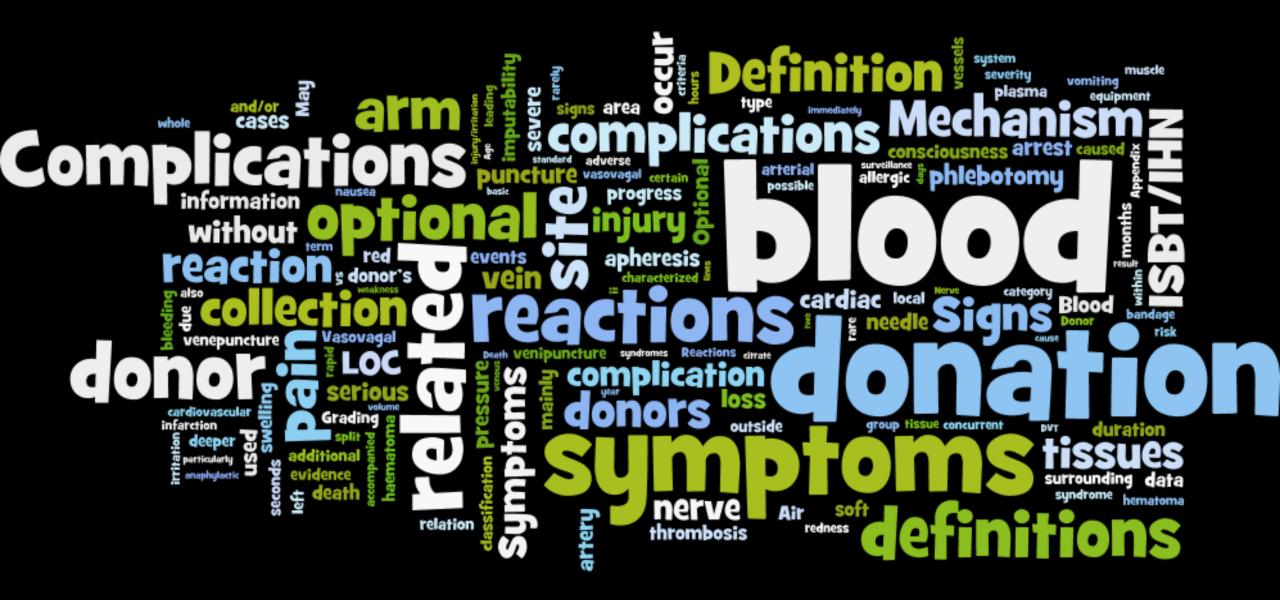
Current practice with any donors ^a suspected of a reaction to chlorhexidine

Reviewed by nurse on session- donor assessment and management as appropriate

Donor provided with post donation advice and card

Reaction documented on donor health check with product and reaction details and permanent withdrawal donation instruction applied

Logged as Quality incident, Clinical Support team(CST) informed as needed. QA report these to MHRA via the Yellow Card system. CST follow up donor via phone calls as appropriate.



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Results:



Approximate risk of 0.5 per 10,000 donors



Only one donor developed a systemic reaction with shortness of breath and generalized hives warranting hospital referral



In majority (36/46=78%) of the affected donors, symptoms resolved before the donor left the session



Six donors had some persistent symptoms for a variable period of time post exposure



Impact

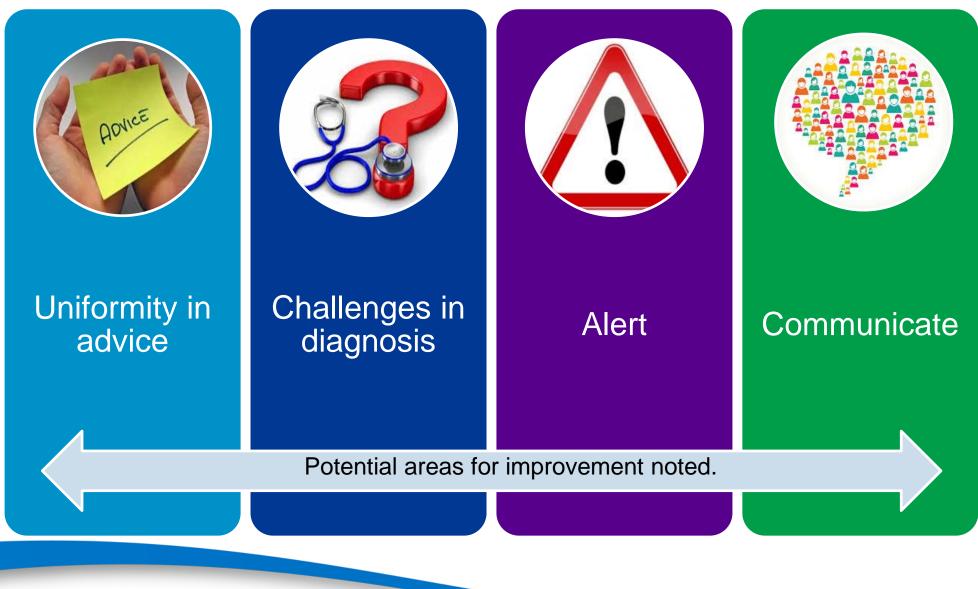
6 donors with non specific localized symptoms continued to donate with no recurrent of symptoms (87%) donors permanently withdrawn from further donations

40/46

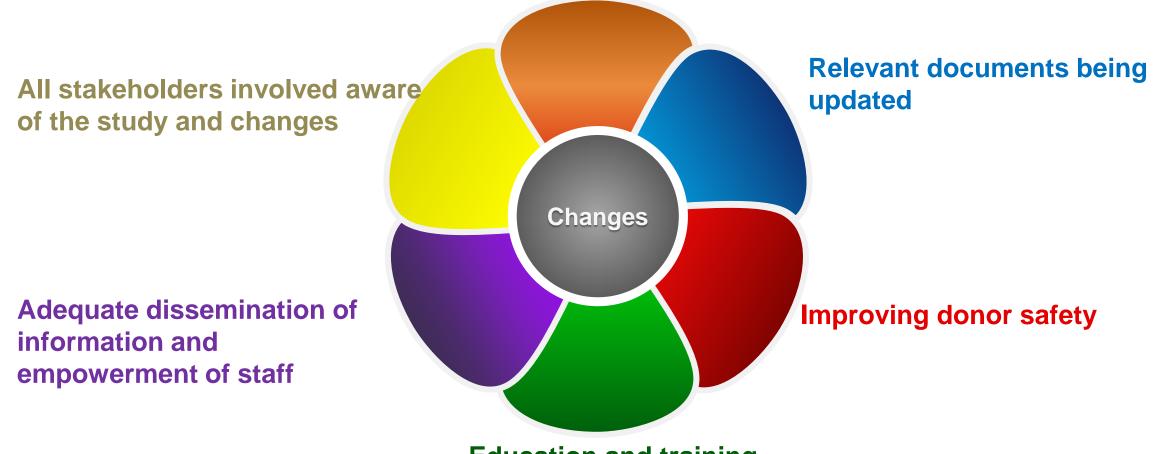
3 donors with a localized reaction following previous donations developed recurrent and worsening symptoms after subsequent donations

No further information was available in any of the donors regarding further investigations including allergen skin testing





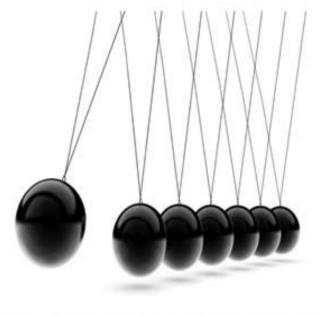
Standardised information letter from Clinical team to donors suspected of chlorhexidine reactions



Education and training



We are what we repeatedly do. Excellence, then, is not an act, but a habit



Delivering Results









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