

Obstetric screening issues

Rose Gill

Blood Transfusion Practitioner

contents

- ▶ Case one– anti kell antibody issues notification issues
- ▶ Case two – missing anti Kpa antibodies



Case 1.

Anti Kell antibody notification issues

- ▶ Anti K detected at booking sent off for titre to NBS
- ▶ Titre = 8. wording on report led clinical staff to think risk was low
 - ▶ “Anti-K is more likely to cause fetal anaemia than hyperbilirubinaemia. The risk of HDN is low as the titre is less than 32”
- ▶ Routine screening regime, (4 week samples to 28 week then 2 week to term)
- ▶ Titre stayed at 8



-
- ▶ 38/40 weeks patient admitted in late stage labour
 - ▶ Delivered in 17 mins from admission!!!
 - ▶ Unexpected Stillborn
 - ▶ Noticed in review of case the issues related to anaemia not related to titre for Anti K
 - ▶ PM showed not Hydrops, so anti K not implicated



Actions for future Anti Kell

- ▶ Now ensure early referral to foetal medicine unit for all anti K mums – irrespective of titre
- ▶ Contacted NBS Leeds and discussed ambiguous wording on report;
- ▶ Contacted NBS national group to review wording on report have agreed But still waiting



Case 2.

Missing Kpa antibody

- ▶ Patient previous pregnancy showed anti Kpa high titre (128)
- ▶ Partner tested and Kpa-ve therefore no intervention required on foetal medicine unit instructions
- ▶ Healthy baby born
- ▶ This pregnancy no antibody detected on booking but not followed SOP by performing a full panel by lab staff



-
- ▶ Next sample showed anti Kpa, sent off for titre and high level again
 - ▶ Obstetrician quizzed me re 'if anti Kpa is background and not related to baby then why is antibody fluctuating?
 - ▶ I didn't know
 - ▶ D/W NBS reference lab in Sheffield
 - ▶ Asked us to review the screening panel on booking and panel has no Kpa antigen



-
- ▶ D/W everybody I can think of!!! (SHOT. Consultants at NBS and BCSH writing group and read loads)
 - ▶ Outcome is; Screening cells do not need to have Kpa on them because
 - ▶ 98-99% are Kpa –ve therefore
 - ▶ Very rare to be of clinical significance for transfusion or pregnancy
 - ▶ One paper citing severe HDN with previous miscarriages
 - ▶ Only causes mild to moderate haemolysis in transfusion which can be detected during Xmatch.
 - ▶ However, advice is, if it *is* detected then need to screen as with other antibodies
-



Food for thought

- ▶ My worry is we could have a woman with increasing titres of anti Kpa without being aware of it – rare or not!
- ▶ E would not detect anti Kpa unlike Xmatch
- ▶ Following review of the paper, we will do a full panel on women with multiple miscarriages (but only if we know of them of course)
- ▶ Lab staff are now all aware of performing a full panel if antibody disappears, especially Kpa!



Thank you for listening

- ▶ Any questions

