

A thick, blue, wavy line that curves across the top of the slide, separating the header from the main content.

Pennies From Hell

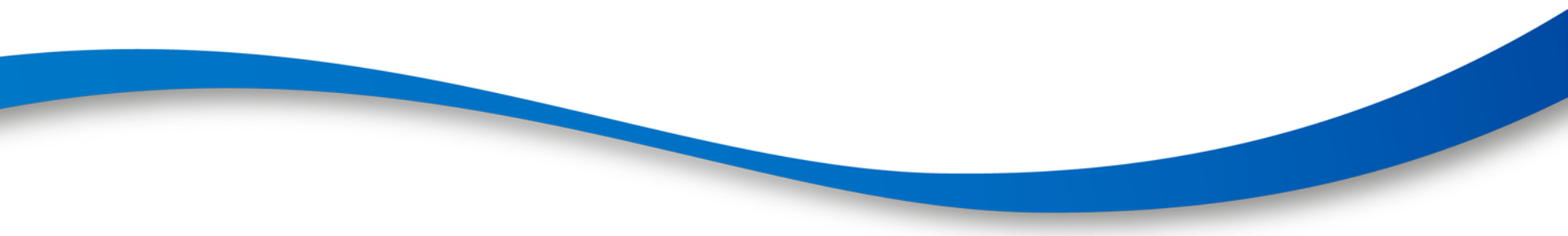
Martin Maley – RCI HoL

NHSBT Newcastle

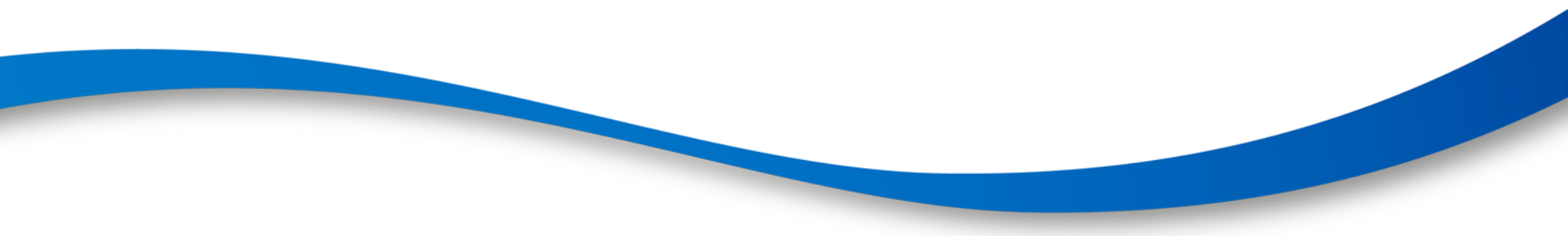
Other title options;

- Old but gold
 - Communication (nearly) let me down
- 

Old but gold

- “Something that is old or classic, but is still regarded as having aged well and still being able to compare to things from today”.
- 
- A thick, solid blue wavy line that curves across the bottom of the slide, starting from the left edge, dipping down, and then rising towards the right edge.

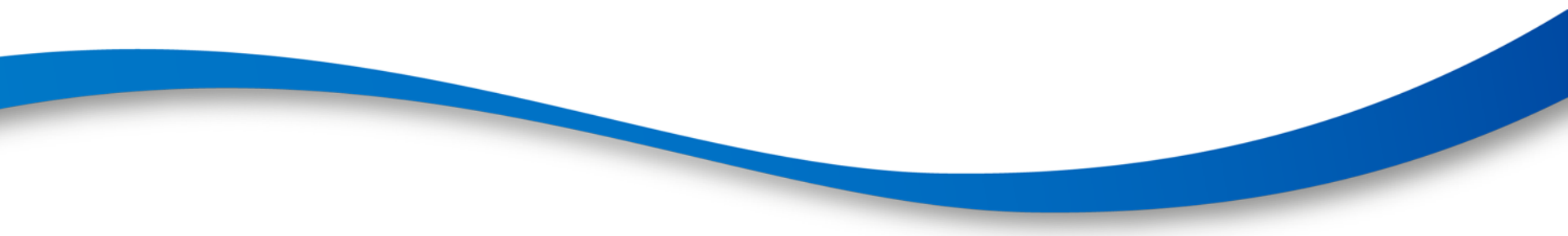
Kell System Antibodies

- “ Anti-K system antibodies are more likely to cause fetal anaemia than hyperbilirubinaemia. Titre levels are not a reliable indicator of the risk of anaemia and may need further investigation and management”
 - Kpa???
- 

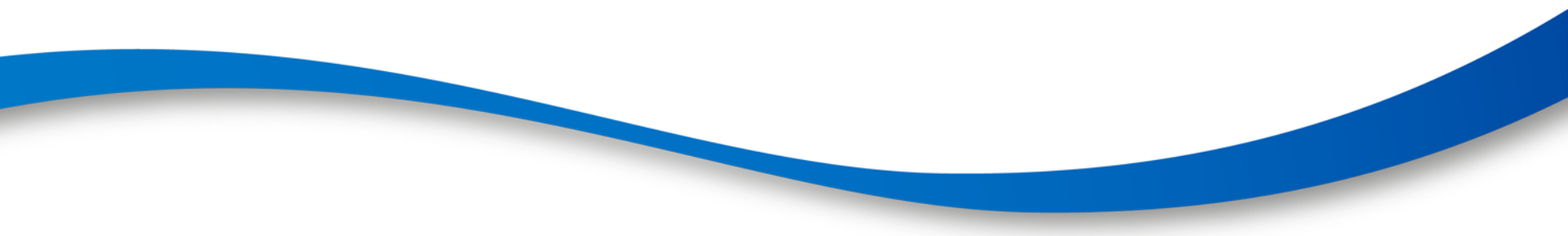
Communication



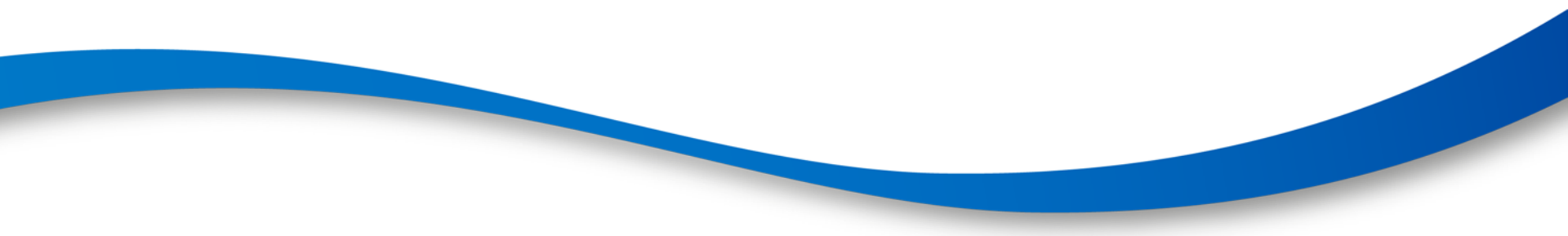
How it all started

- Request for Kpa- IUT unit came in to HS **
 - Phone call from Fetal Medicine
 - “I’ve got a lady in for IUT who has anti-Kpa in her notes, but our computer system says no antibodies present”
- 

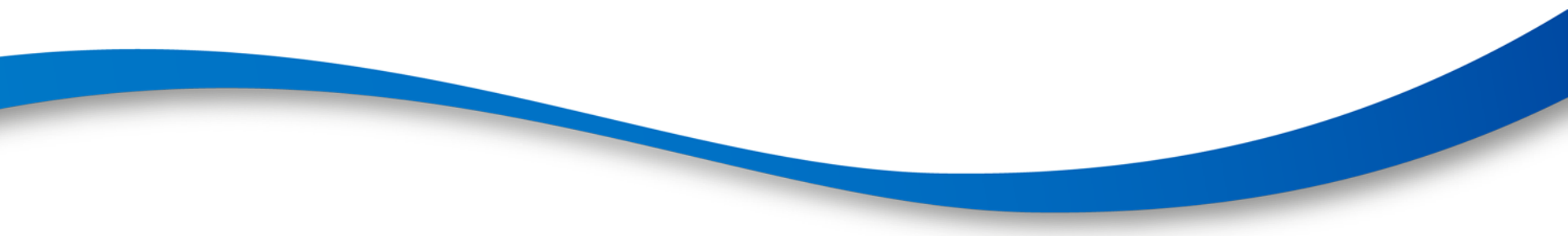
Referring (Booked) Hospital Info

- Anti-Kpa
 - No further antibodies
 - Titre: 4
 - Referred to FMU
 - Kpa present on screening cells
- 
- A thick, blue, wavy decorative line that curves across the bottom of the slide.

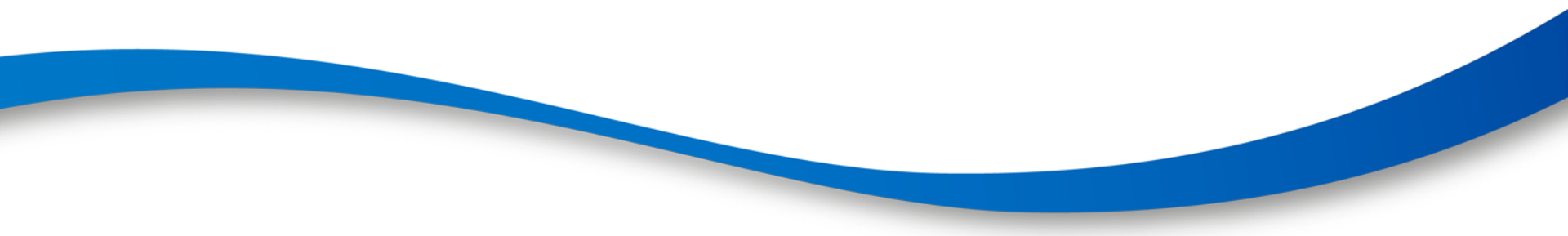
FMU Hospital Info

- “Yes, we’ve only just been told that there was anti-Kpa there – we’re on with a panel now.”
 - Kpa not present on screening cells
- 

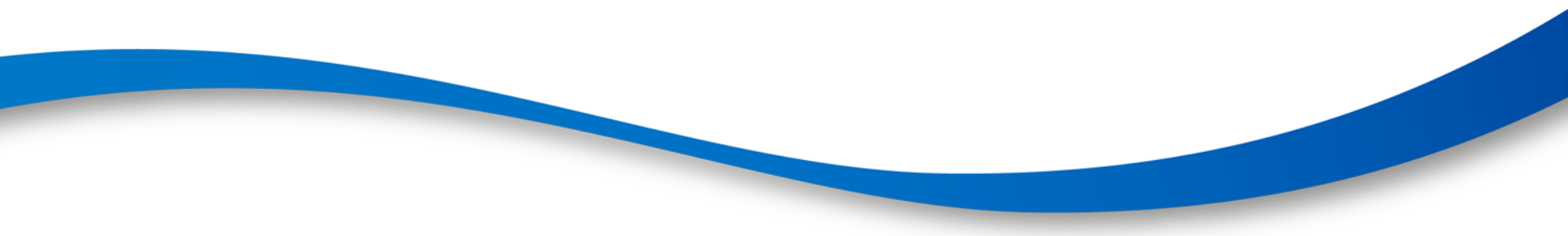
RCI results - mum

- Anti-Kpa
 - No further antibodies
 - Titre: 4
- 
- A thick, solid blue wavy line that curves across the bottom of the slide, starting from the left edge, dipping down, and then rising towards the right edge.

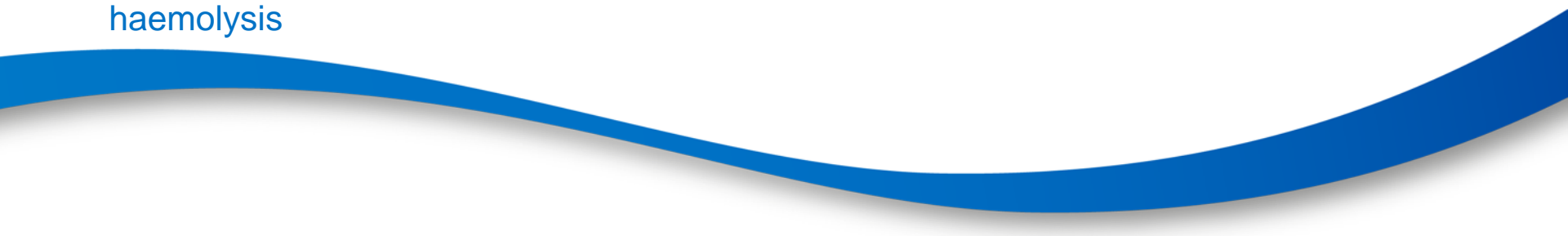
FMU hospital Fetal results

- 16/05/17 – Pre IUT (1)– sample clotted
 - 16/05/07 – Mid IUT (1) – Hb 135 g/L
 - 16/05/17 – Post IUT (1) – Hb 155 g/L
 - 07/06/17 – Pre IUT – (2) Hb 114 g/L
 - 07/06/17 – Mid IUT (2) – Hb 140 g/L
 - 07/06/17 – Post IUT (2) – 146 g/L
- 

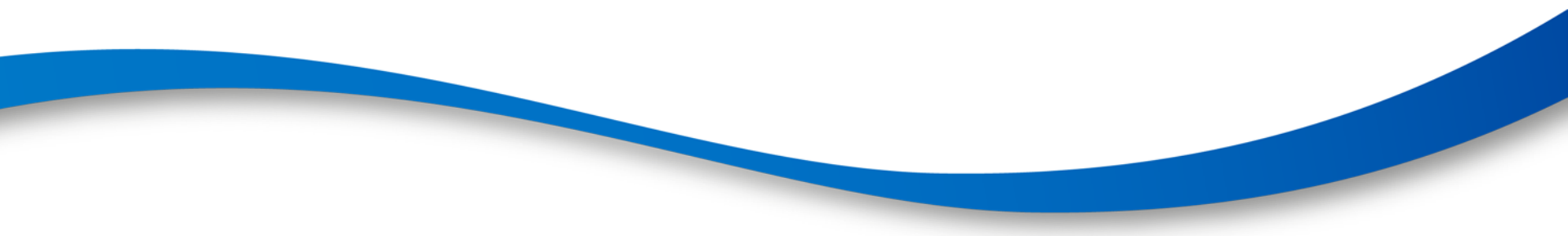
RCI results – Fetal sample

- DAT IgG 2+ (BioRad card)
 - Kpa+ (tube technique with relevant controls)
 - Eluate: Anti-Kpa
- 

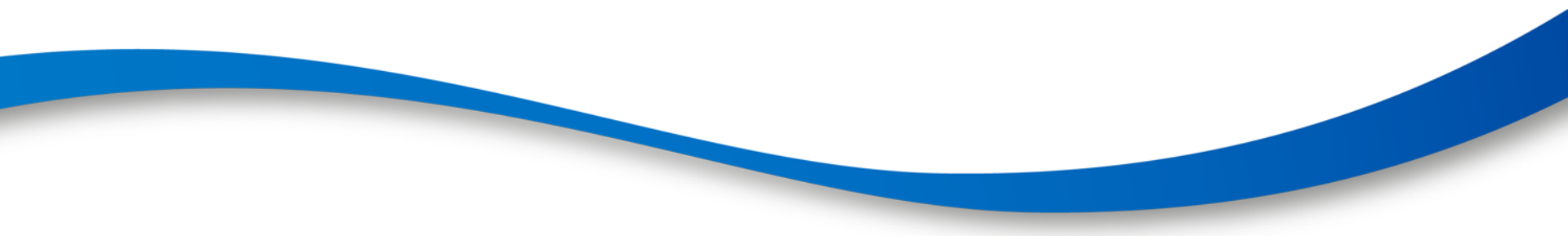
Outcome Data

- No further IUT procedures (2 in total)
 - C/S 37 weeks gestation
 - At delivery - Hb 126g/L, Total Bilirubin 34umol/L
 - Bilirubin 65umol/l at 12 hours and 71umol/l at 24 hours
 - Baby put on intensive phototherapy
 - 2 days post delivery - Hb 138g/L
 - 14 days post delivery - Hb 117g/L
 - 6 weeks post delivery - Hb 84g/L but blood film had no features of haemolysis
- 

Kp^a

- ISBT: KEL3
 - Obsolete names; Penny, K3
 - Antigen prevalence 2% (caucasian), <0.1% (blacks)
 - Expressed on cord cells, papain resistant
 - Antibody; IgG / IAT
 - Transfusion 'mild to moderate / delayed'
 - HDN 'Mild to severe'
- 

Talking points

- Kpa on screening cells
 - Inter-hospital communications
 - Consistent messages / exceptions
 - Kell system antibodies can still cause severe HDN
 - Missed opportunity to add weight to the 'suppresses erythropoiesis' theory
 - Don't dismiss oldies when they lecture you on what's right!
- 

Thank you

- Contributors;
 - Haley Ranton (RVI)
 - Chris Elliott (JCUH)

 - The Blood Group Antigen FactsBook (3rd Ed) Marion Reid, Christine Lomas-Francis, Martin L. Olsson
- 
- A thick, solid blue wavy line that curves across the bottom of the slide, starting from the left edge and ending at the right edge.