LABOUR
A Risk Assessment Tool
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Outline

- Background
- Risk Assessment Criteria
- Audit & Results
- Implementation of a Risk Assessment Tool
- Feedback
- Conclusions
Background

- Paediatric Family Tree

```
  Consultants
   /          \
  /            \
Trust Grades & SpRs
    /      \    /      \  
  /        \  /        \  
Foundation Years 1 & 2
                  /  
                  /   
GP trainees GPST1 & GPST2
                  /  
                  /   
Paediatric Trainees ST1, ST2, ST3
```


Deliveries – a difficult prediction

Paediatric attendance:
- Fetal distress
- Meconium
- Preterm <34 weeks
- Breech
- Multiple pregnancy

- Dynamic situation
- Unexpected events
- Precipitous arrival
Aims

• Improve neonatal care
• Improve communication between specialities
• Provide a consistent framework for communication
• Effective use of senior paediatric staff at deliveries
Risk Assessment Criteria

- **L** location (theatre / room number)
- **A** age (gestation)
- **B** birth type (vaginal, CS, breech, forceps etc)
- **O** ongoing concerns (CTG, fetal distress)
- **U** urgency
- **R** risk factors (meconium, GBS, maternal fever, abnormal serology, abnormal scans, congenital abnormalities)
LABOUR Audit

• Paediatric Consultant & Senior Midwifery approval

• Prospective audit of 50 calls to on-call SHO bleep 0223

• Collation of information volunteered during request to attend deliveries by labour ward staff to bleep 0223

• Audit criteria based on those factors deemed important in formulating a risk assessment prior to attending a delivery
# Audit Criteria

<table>
<thead>
<tr>
<th>Location</th>
<th>Age</th>
<th>Birth Type</th>
<th>Ongoing concerns e.g. CTG, decels, bradys,</th>
<th>Urgency</th>
<th>Risk factors e.g. mec, pyrexia, GBS etc.</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>
Results

n= 51

• Location 98%
• *Age 27%
• Birth type 57%
• *Ongoing concerns 37%
• Urgency 8%
• *Risk factors 31%

*key criteria
Results

• 29% required resuscitation

• 10% required SCBU admission

• 6% SpR called after SHO’s arrival at delivery
Results

10% required SCBU n = 5

- Location 100%
- * Age 40%
- Birth Type 100%
- * Ongoing Concerns 80%
- Urgency 80%
- * Risk Factors 60%
Comparison of results between centres

<table>
<thead>
<tr>
<th></th>
<th>RGH</th>
<th>UHW</th>
<th>PCH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Location</strong></td>
<td>98%</td>
<td>95%</td>
<td>98%</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td>27%</td>
<td>19%</td>
<td>16%</td>
</tr>
<tr>
<td><strong>Birth type</strong></td>
<td>57%</td>
<td>87%</td>
<td>82%</td>
</tr>
<tr>
<td>*Ongoing concerns</td>
<td>37%</td>
<td>28%</td>
<td>18%</td>
</tr>
<tr>
<td><strong>Urgency</strong></td>
<td>8%</td>
<td>27%</td>
<td>48%</td>
</tr>
<tr>
<td>*Risk factors</td>
<td>31%</td>
<td>11%</td>
<td>20%</td>
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Implementation of LABOUR Risk Assessment Tool

• Presentation of audit results

• Teaching sessions on use of the LABOUR risk assessment tool

• Laminated cards
  - Above phones
  - Attached to notes
<table>
<thead>
<tr>
<th></th>
<th>Initial results</th>
<th>Re audit</th>
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</thead>
<tbody>
<tr>
<td>Location</td>
<td>98%</td>
<td>98%</td>
</tr>
<tr>
<td>*Age</td>
<td>16%</td>
<td>62%</td>
</tr>
<tr>
<td>Birth type</td>
<td>82%</td>
<td>82%</td>
</tr>
<tr>
<td>*Ongoing concerns</td>
<td>18%</td>
<td>60%</td>
</tr>
<tr>
<td>Urgency</td>
<td>48%</td>
<td>74%</td>
</tr>
<tr>
<td>*Risk factors</td>
<td>20%</td>
<td>64%</td>
</tr>
<tr>
<td>SCBU admission</td>
<td>10%</td>
<td>4%</td>
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</table>
Feedback

Junior Doctors
- positive
- concise referrals
- informed decision attending deliveries
- appropriate level of neonatal care

Midwives
- no negatives
- clear about information required by SHO
- pro-active in promoting risk assessment tool
Conclusions

• Improve neonatal care

• Improve communication between specialities

• Provide a consistent framework for communication

• Effective use of senior paediatric staff at deliveries
Next steps

- Full implementation of LABOUR tool
- Re-audit results
- Annual re-audit
- Application in other units
Thank you
References

• WHO Neonatal and perinatal mortality: country, regional and global estimates ISBN 92 4 156320 6

• Neonatal Life Support, Resuscitation Guidelines 2010, Resuscitation Council

• European Resuscitation Council Guidelines for Resuscitation 2010 Section 1. Executive summary on behalf of the ERC Guidelines Writing Group 1. Published online 19 October 2010, pages 1219 - 1276