XANTHOGRANULOMATOUS CHOLANGITIS

Dr: R.Zbaida, Dr: Pawel T Schubert*, Prof: B. Baniegbal
Division of Pediatric surgery
* Anatomical Pathology department
Stellenbosch university
Clinical presentation:

- 9 month old boy
- No antenatal or post-natal events
- Worsening jaundice and pale stool (over 1 month)
- Hepatomegaly
### Blood results (LFT):

<table>
<thead>
<tr>
<th>Age (months)</th>
<th>Tol Bilirubin (5 – 21)</th>
<th>Conj Bilirubin (0 – 5)</th>
<th>ALP (82 -383)</th>
<th>GGT (1 – 39)</th>
<th>AST (0 – 65)</th>
<th>ALT (4 – 35)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 (pre-surgery)</td>
<td>61</td>
<td>42</td>
<td>502</td>
<td>461</td>
<td>85</td>
<td>79</td>
</tr>
<tr>
<td>9 (at surgery)</td>
<td>63</td>
<td>54</td>
<td>1178</td>
<td>1549</td>
<td>128</td>
<td>138</td>
</tr>
</tbody>
</table>
Abdominal sonar:
MRCP
Intra-operative cholangiogram:
Surgical intervention:

- Surgical finding and resection of fibrotic mass (at the confluence of the right and left bile ducts)
- Cholecystectomy
- Hepatico-duodenostomy
### Post operative

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<th>Age (months)</th>
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<tr>
<td>9 (5 days post-op)</td>
<td>38</td>
<td>35</td>
<td>696</td>
<td>601</td>
<td>86</td>
<td>82</td>
</tr>
</tbody>
</table>
Histopathology:

- Xantogranulomatous cholangitis
- Gall bladder: Obstructive cholangiopathy
  (No histological findings of Xanthogranulomatus disease)
CHD
MFN-117 stain
Foamy macrophages
Gall bladder
Xanthogranuloma:

- Idiopathic chronic destructive granulomatous inflammation
- Clusters of foamy macrophages among other inflammatory cells
- Kidney, skin or gallbladder
- Often mistaken with cholanigocarcinoma
Xanthogranulomatous cholangitis causing obstructive jaundice: A case report

Susumu Kawate, Susumu Ohwada, Hayato Ikota, Kunihiro Hamada, Kenji Kashiwabara, Yasuo Morishita
Conclusion

- Unusual cause of obstructive jaundice in infants
- Diagnosis can be confirmed on histology
- Macrophages with intracellular lipids
- Management: surgical resection with reconstruction of biliary drainage
THANK YOU