



# SURGICAL OUTCOME OF EXTENDED HEPATECTOMY FOR CHILDHOOD HEPATOBLASTOMA

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## INTRODUCTION



- Surgical resection of hepatoblastoma in children is essential for a cure
- Partial hepatectomy in children is a complex procedure and associated with high complication rates





- Busweiler et al. (Netherlands) (n=103 over 24years)
  - ▶17% (n=18) liver transplantation
  - ▶74% (n=76) partial hepatectomies (44.7% extended)
  - ▶58% complication rates following partial hepatectomy
    - Hemorrhage necessitating blood transfusion (45%)
    - Biliary complications (12%)
    - ▶ Infection (8%)
    - Vascular complications (3%)
    - Early postoperative mortality: none

## INTRODUCTION



- In our country, availability for liver transplantation is limited
- Extended hepatectomy is our option for all hepatoblastoma with extensive tumor involvement (PRETEXT III / POSTEXT III)



- To review surgical outcomes of extended hepatectomy for childhood hepatoblastoma
  - Postoperative complications
  - Postoperative outcome

## **METHOD**







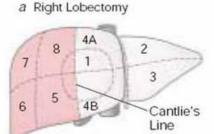
## Study design

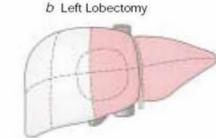
Retrospective: year 2010 to 2016 (7 years duration)

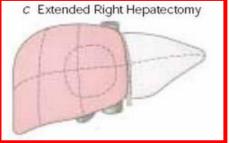
#### ▶ Sample

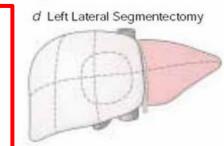
▶ All patients with hepatoblastoma who underwent extended hepatectomy

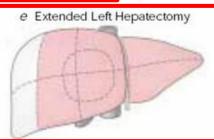
#### HEPATIC RESECTION













- Over the 7 years period,
  - ► Hepatectomies: 57
  - Extended hepatectomy: 25 (43.9%)
    - 24 included in the study (one emergency EH for bleeding post biopsy was excluded)
    - ▶ 7 had caudate lobectomy

Liver resection for hepatoblastoma

Extended hepatectomy (n=25)

# **RESULTS**

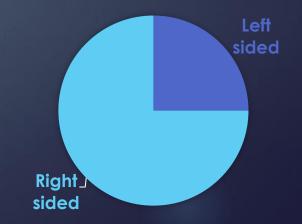


BAPS	Congress 2017
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Category	Number	%
Gender		
Male	10	42%
Female	14	58%
Age (months)		
Mean	35m	
Median	20m	
Side of resection		
Right sided EH	18	75%
Left sided EH	6	25%



#### SIDE OF RESECTION



# Perioperative complications



#### ▶ 11 patients (45.8%) had one or more complications

Complications	n (%)	Remarks
Biliary complications	10 (42%)	7 bile leaks (5 conservatively / 2 surgery)
		3 biliary stricture (all had bilio-enteric anastomosis)
Major hemorrhage	<mark>4</mark> (16.6%)	All patients required intraoperative blood transfusion
		4 patients had major hemorrhage
		2 major intraoperative life threatening hemorrhage
		<ul> <li>2 major postoperative hemorrhage (reoperation)</li> </ul>
Early postoperative death	<mark>2</mark> (8.3%)	Died following major hemorrhage
Liver insufficiency	none	
Surgical site infection	none	

# Perioperative outcome



Outcome	n (%)	Remarks
Free resected margin	<b>20</b> (83.3%)	<ul><li>Involved margin: 2 (8.3%)</li><li>Missing data: 2 (8.3%)</li></ul>
Local recurrence	1 (4.2%)	Free resected margin



- Extended hepatectomy in children is associated with high complication rates (46%) in which most are not life threatening
- In a country where availability for liver transplantation is limited, extended hepatectomy offers a chance of survival among hepatoblastoma cases with extensive tumor involvement



# Terima Kasih THANKS...