

National Oesophago-Gastric Cancer Audit

The Utility of Pathology Reports for Monitoring Outcomes after Curative Surgery for Oesophago-Gastric Cancer

T.R. Palser, D.A. Cromwell, R.H. Hardwick, S. R. Riley, K. Greenway,
J.H.P. Van der Meulen.

NCIN Conference – Birmingham 2009

Background



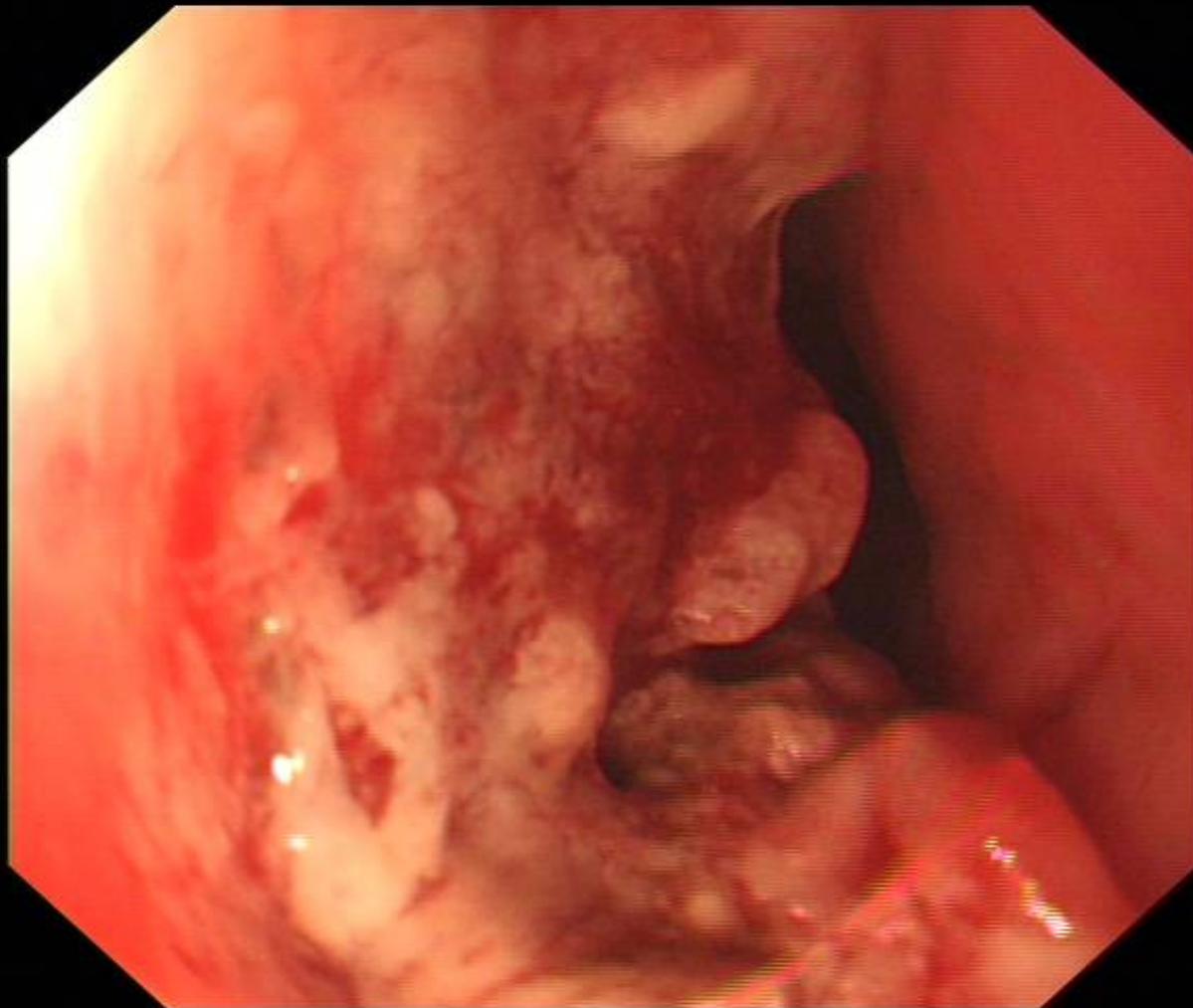
Sex : Age :
D.O.Birth :

28/12/2007
15:20:47

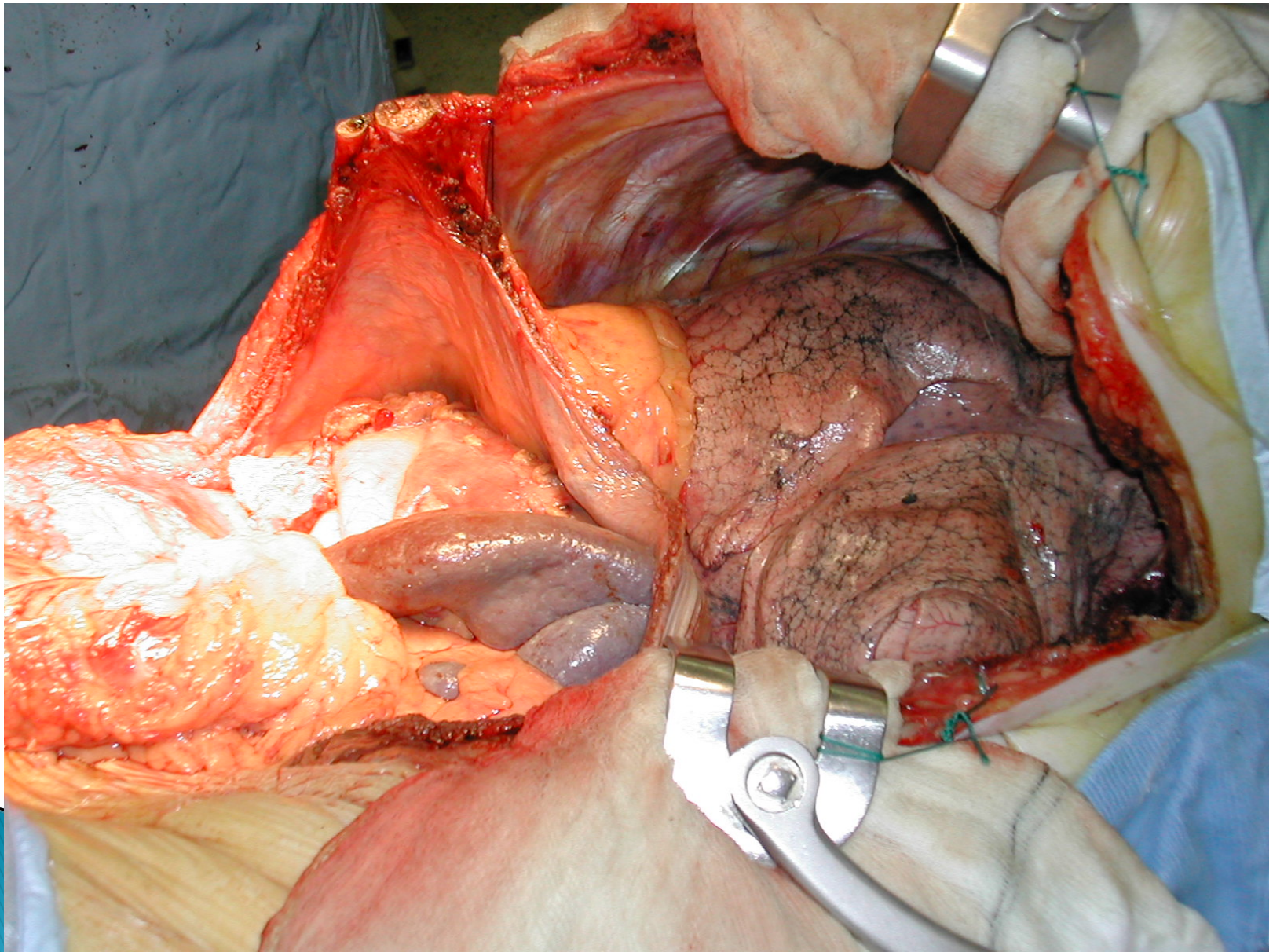
SCV:8
CVP:A1/1

Ct: N Eh: A1
Ce: O Z: 1.0

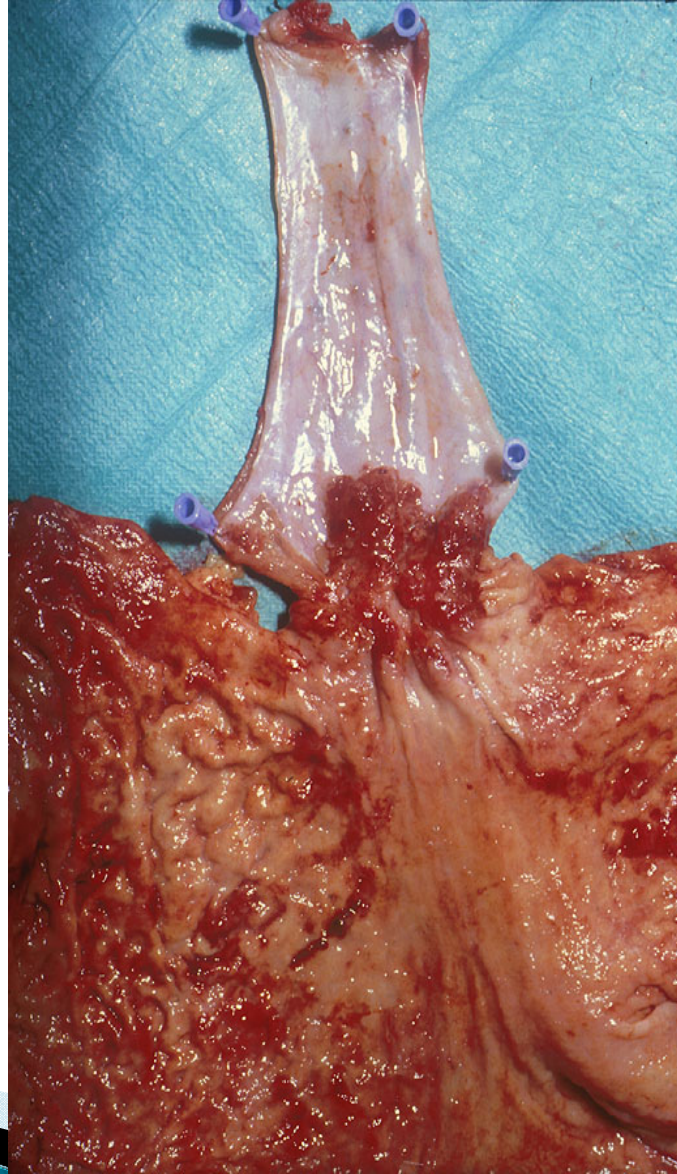
Physician :
Comment :



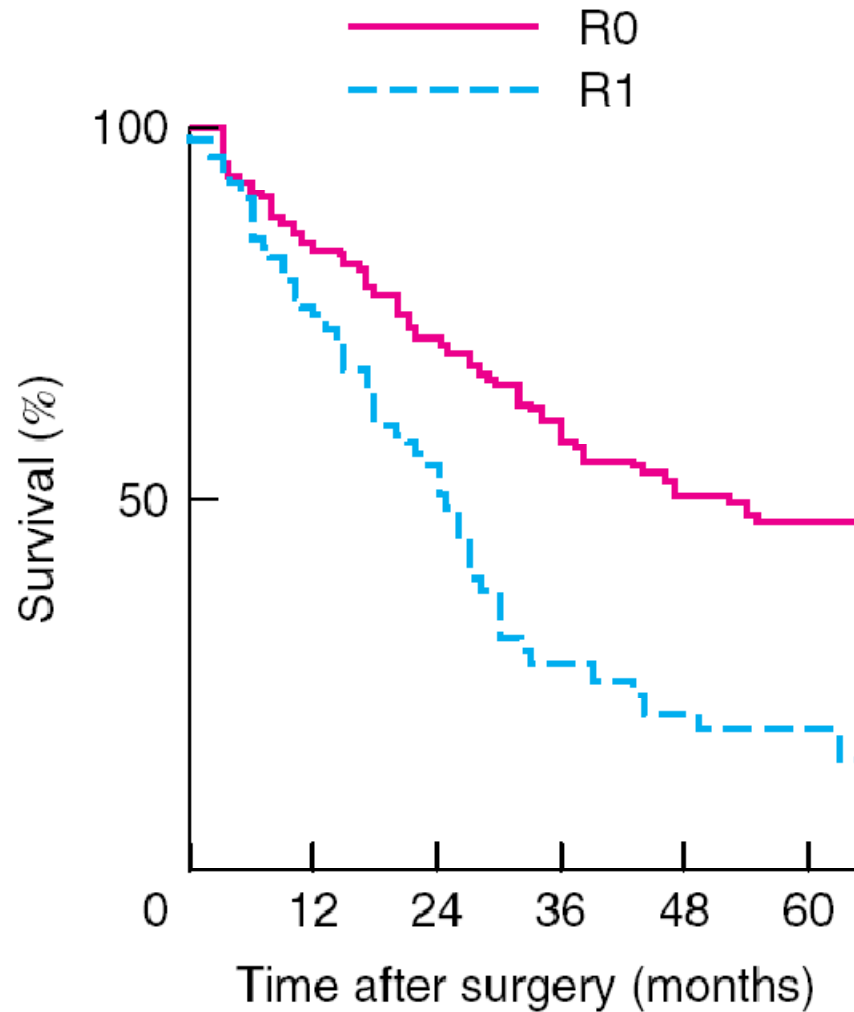
Background



Resection Margins



Resection Margins



Resection Margins

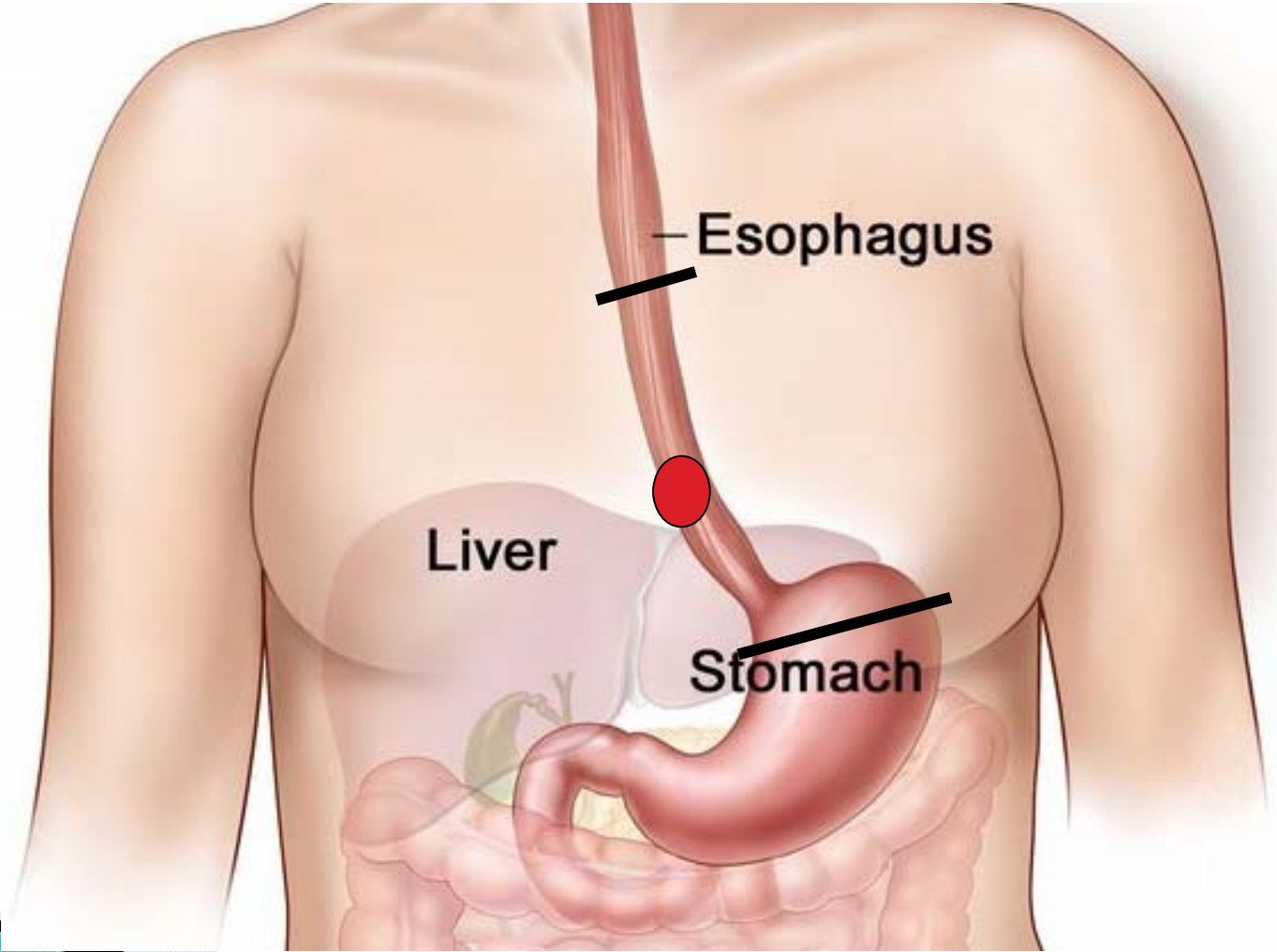
- ▶ Wrong patient

Resection Margins

- ▶ Wrong patient
- ▶ Wrong operation

Resection Margins

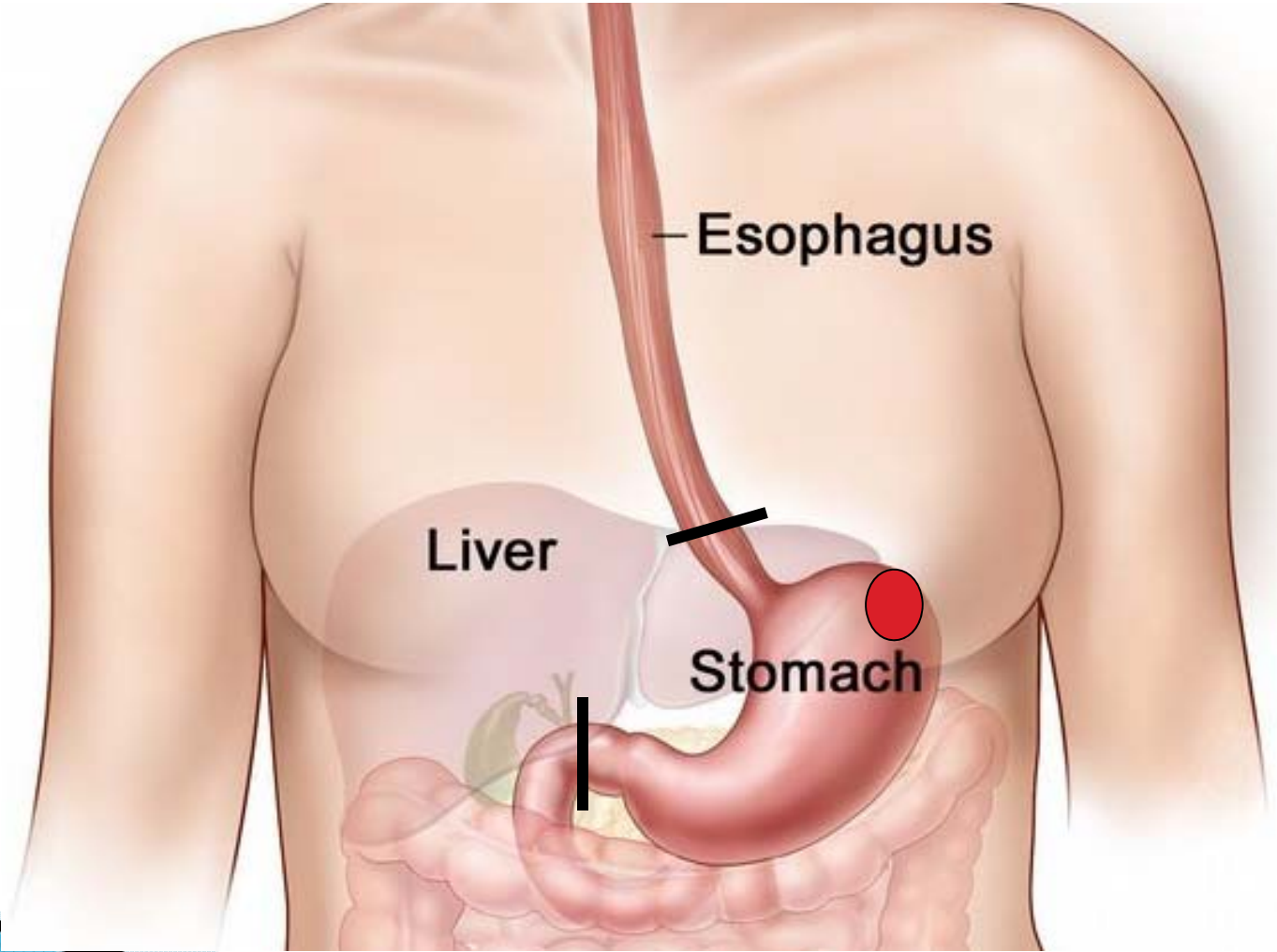
- ▶ Wrong patient
- ▶ Wrong operation
- ▶ Right operation badly



— Esophagus

Liver

Stomach



— Esophagus

Liver

Stomach

Pathology Data



The Royal College of Pathologists
Pathology: the science behind the cure

Standards and Datasets for Reporting Cancers

**Dataset for the histopathological reporting of
oesophageal carcinoma (2nd edition)**

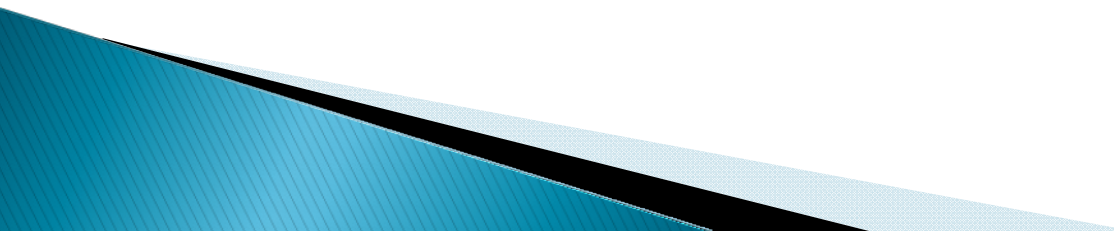
Background Summary

- ▶ OG Cancer Common

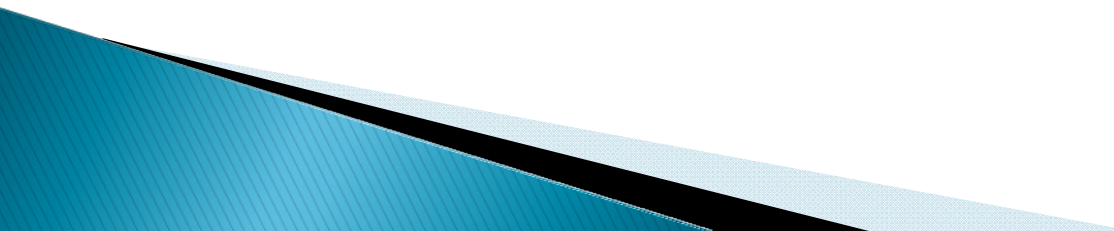
Background Summary

- ▶ OG Cancer common
- ▶ Resection margins

Background Summary

- ▶ OG Cancer common
 - ▶ Resection margins
 - ▶ Routinely collected
- 

Methods



Methods

- ▶ Patients-
 - Curative Surgery for O-G Cancer
 - England & Wales

Methods

▶ Patients-

- Curative Surgery for O-G Cancer
- England & Wales
- Dx Date
 - 1st October 2007 – 30th September 2008

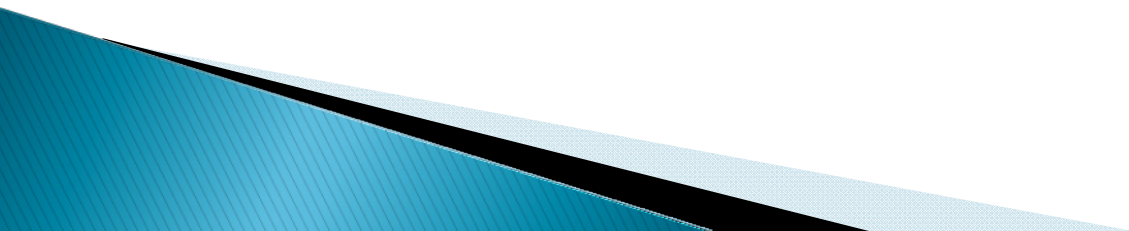
National Oesophago-Gastric Cancer Audit

Postoperative Datasheet – Page 2

Postoperative Pathology and Staging

Site						
Oesophagus:	Upper 1/3 <input type="checkbox"/>	Middle 1/3 <input type="checkbox"/>	Lower 1/3 <input type="checkbox"/>	<i>NB: cervical oesophageal tumours are not included in this audit</i>		
Gastro-Oesophageal Junction (adenocarcinomas only) Siewert classification:						
	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>			
Stomach:	Fundus <input type="checkbox"/>	Body <input type="checkbox"/>	Antrum <input type="checkbox"/>	Pylorus <input type="checkbox"/>		
Histology:						
Adenocarcinoma	<input type="checkbox"/>		Squamous cell carcinoma	<input type="checkbox"/>		
Adenosquamous carcinoma	<input type="checkbox"/>		Small-cell carcinoma	<input type="checkbox"/>		
Undifferentiated carcinoma	<input type="checkbox"/>		Other epithelial carcinoma	<input type="checkbox"/>		
Unspecified malignant neoplasm (histology not done) <input type="checkbox"/>						
<i>NB: Non-epithelial tumours (GIST, sarcomas or melanomas) are NOT included in this audit</i>						
Proximal resection margin involved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unknown <input type="checkbox"/>			
Distal resection margin involved?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unknown <input type="checkbox"/>			
Circumferential resection margin involved? (<1mm)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Unknown <input type="checkbox"/>	N/A <input type="checkbox"/>		
Number of lymph nodes examined:						
Number of lymph nodes positive:						
Post operative staging:						
T:	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	x <input type="checkbox"/>
N:	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	x <input type="checkbox"/>	
M:	0 <input type="checkbox"/>	1 <input type="checkbox"/>	M1a <input type="checkbox"/>	M1b <input type="checkbox"/>	x <input type="checkbox"/>	
History of neo-adjuvant therapy						
	Yes <input type="checkbox"/>	No <input type="checkbox"/>				

Results



Data collected

Data Record	Number	
Tumour details / treatment plan	12,175	
Surgical details (All)	2,132	
No. Resections	1,929	75% predicted
Post-operative pathology	1,798	93.2% predicted

Data collected

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Data Completeness

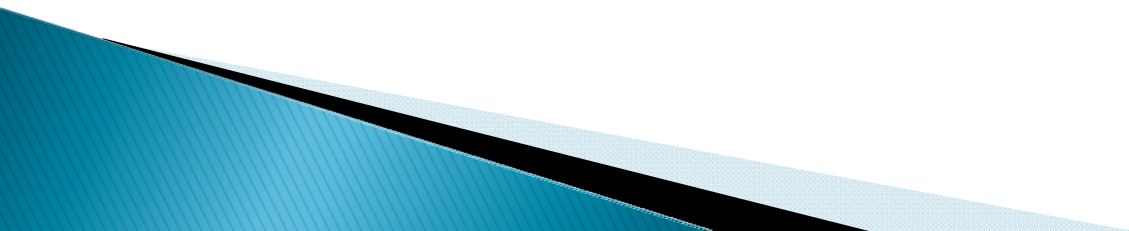
Data Item	% Complete
Proximal / distal margin	92.8%
Circumferential margin (Oes)	85.2%

Resection Margins

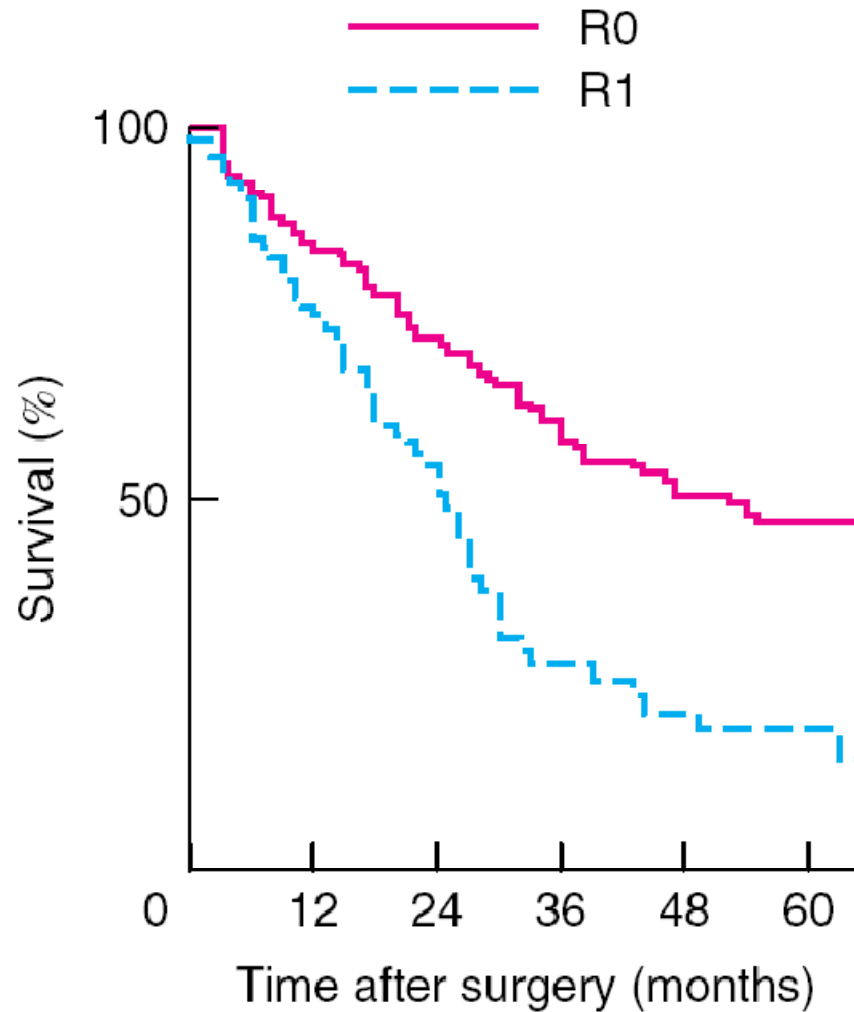
Status	Oesophagectomy (n = 995)	Gastrectomy (n = 633)
+ve <u>proximal</u> margin	38 (3.8%)	33 (5.2%)
+ve <u>distal</u> margin	50 (5.0%)	31 (4.9%)
+ve margin (overall)	73 (7.3%)	53 (8.4%)

Status	Oesophagectomy
Positive resection margin (circumferential)	26.5%

Conclusion



Resection Margins



Pathology data

- ▶ Feasible

Pathology data

- ▶ Feasible
- ▶ Useful

Acknowledgements



The Royal College of Surgeons of England

Dr. David Cromwell, Professor Jan Van der Meulen

AUGIS

Mr. Richard Hardwick



Dr. Stuart Riley



Kimberley Greenaway, Steve Dean, Rose Napper