

Abstracts for the BASO Trainees Audit / QiP Poster Prize Presentation

at the 2020 BASO Annual (virtual) Scientific Meeting 21st – 23rd November 2020

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2020 BASO Annual (virtual) Meeting 21st – 23rd Nov



Poster 1: Four-monthly Foundation doctor rotations affect compliance with colorectal cancer surgery-related 2020 BASO Annual (virtual) extended VTE prophylaxis prescriptions at discharge: a closed-loop audit Chea Tze Ong1, Adarsh P Shah1,2,Ed Leung3 Meeting 1 Department of Surgery, The County Hospital, Hereford. HR1 2ER. 2 Surgical Registrar, Health Education England West Midlands 21st – 23rd Nov

3 Department of Surgery, Taranaki Base Hospital, New Zealand

Introduction / Background

Colorectal cancer and major abdominopelvic surgery are venous thromboembolism (VTE) risk factors. Prophylaxis at discharge mitigates VTE events. Four-monthly Foundation doctor (FY) rotations rely on departmental induction and/or handing down of knowledge to prescribe extended VTE prophylaxis upon discharge.

Objectives

This audit aimed to assess departmental compliance with VTE prophylaxis prescribing after elective and emergency colorectal cancer surgery.

Standard: NICE Guideline NG89 To identify, address and rectify variations with compliance.

Methods and Materials

A retrospective audit of all colorectal cancer surgery between 1/8/2018 to 29/2/2020. Data obtained from electronic patient records and NELA database. All discharge summary prescriptions, correspondence and imaging records analysed to identify VTE events. Patients taking oral anticoagulation preoperatively were excluded. The authors decided to stop audit in February as the COVID-19pandemic was beginning to affect elective surgical services across the UK and locally.

Contact

CHEA TZE ONG Department of Surgery, Hereford County Hospital cheatze.ong@nhs.net

Results

Compliance was higher in the elective cases compared to emergency. Compliance remained highest in the first two months of each FY1 rotation, but declined towards the end, with similar four-monthly cyclical trend noted for each rotating cohort.

Six key educational and operational interventions incorporating a multi-disciplinary approach were made in January 2020. Re-audit demonstrated 100% compliance in the three months following intervention. No VTE events were noted from missed prescriptions.

- Documentation of clear post-operative instructions by the operating surgeon in their operation note.
- Documentation of duration of VTE prophylaxis duration on the drug kardex if the patient was not already on anticoagulation medication prior to surgery.
- 3. Hospital pharmacist engagement and involvement in monitoring the medical records and drug kardex to increase compliance with extended prophylaxis prescribing at discharge.
- Modification of the electronic discharge summary by inserting prompts Where a diagnosis of 'cancer' was entered or a colorectal surgical procedure was entered, a reminder to the discharging clinician would appear.
- Education of ward nursing, pharmacy and medical teams.
- Patient education to increase awareness.

Box 1 : List of the six innervations performed as part of action plan following initial audit

References



Foundation

At our rural English hospital, the rotation of Foundation Doctors is the most frequent movement of healthcare professionals forming the extended colorectal surgery team. Foundation doctor rotation has not been attributed as a factor in decreased compliance with extended VTE prophylaxis prescribing at discharge.

Our audit demonstrated foundation doctor education, amongst other institutional changes, can improve extended VTE prophylaxis prescribing in colorectal cancer surgery.



Figure 1 : Timeline of variation in compliance with extended VTE prophylaxis prescribing at discharge before and after implementation of action plan

Discussion

Conclusions



Poster 10: Accuracy in Completing theatre listing forms

<u>Adlene Adnan¹</u>, Bismark Adjei¹, Deniz Hassan², Hazem Alfeky, Ashraf Mostafa², Sami Ramadan², Alex Benson²

The numbers of cancer-related cases are increasing every day. There is a high turnover of patients on the elective lists. The theatre listing form is an important document to complete as it entails details of the procedure, type of anaesthesia, type of skin cancer patient has and many more. Patients with skin cancer need accurate listing because they are often old with multiple co-morbidities. They have multiple skin lesions which need to be clear of which specific site to be operated on.

Therefore, the lists need to be planned efficiently from admissions, to ensure a full list can be completed in a timely manner. This, in turn would allow the staff members to anticipate and plan for problems, provide efficient and safe use of theatre list, avoid cancellations and delays, avoid near events and also act as a source of income for the department.



We reviewed the accuracy and completion of current listing forms. Improvements to the form were considered along the way.

Theatre listing forms for elective surgeries from Burns and Plastic Surgical Department at St. Helens and Knowsley Teaching Hospital were reviewed. 267 forms were analysed under two months period, to review if it is completed and if so, whether the forms were completed correctly. Several information such as demographics of patients, surgeons or registrars completing the form, legibility and patients' comorbidities were taken into account.

Introduction:

Theatre Listing Form of Burns and Plastic Surgery Department

l:		Hospital number:	
:		Name:	
el:		DOB Ger	ider Select
ne & Practice):		Address:	
nt Name:	Select	Listed by: Grade:	Select
nt only to do		Agreed TCI date	
WAITING LIST			
TETIC OPINION to the flowchart for gu	I ONLY	Procedure	
(SCC/Melan	oma) imeframe		
= (BCC) d into Next Available	Slot		
toria 🗌 Ma	t 🗌 Not applicable	Special requirements:	
eference num	ber	(kit required/ clinical delay)	?/ special circumstances
LCP Policy befo	ore listing		
nt seen under 2 week cancer rule?			
No Date of C	P referral?		
management	Aspirin	Fie-op clinic	operating time:
StH/Whist	Clopidogrel	No / Yes / Anaesthetic	Hrs Mins
naesthesia	Warfarin/Dipyridamole	Medical Photography	CWT Target Track
gional/Sedation	Hormone drugs	On admission	Patient (A200)
rivate	Stop pre-op?	Performed	CWT Diagnosis
	Yes/No		confirmed (A219)
ASCULAR			
	Emphysema	Lymphoma	
rdial Infarction	Asthma Bronchiectasis	Anaemia	Melanoma Actinic Keratosis
d Pressure	Bronchitis	Previous DVT	Bowens Disease
esterol	GASTROINTESTINAL	Previous PE	CANCER
eplacement	Peptic ulcer disease	Coagulopathy	Lung cancer
Vasc disease			Gastric cancer
s insufficiency	Crohns	Diabetes type 1	Pancreatic cancer
brillation	Ulcerative Colitis	Diabetes type 2	🔲 Sarcoma
utter	Diverticular disease	Requires Insulin	ANAESTHETIC RISK
		↑ Thyroid	Malignant hyperthermia
DIOCK	Rheumatoid arthritis		Scoline Apnoea
DIOCK htricular failure		Stroke / TIA	OTHER
DIOCK htricular failure cardiac failure	Systemic Scierosis		L I Obenity
DIOCK htricular failure cardiac failure ge renal failure	Ank. Spondylosis	Cerebral Palsy	
ntricular failure cardiac failure ge renal failure renal Disease	Ank. Spondylosis	Cerebral Palsy Epilepsy	

Aim:

Method:

Results:

• 90% of patients had skin cancer-related condition. • Median age of patients were 76 (Range 25-96).

Description	Percentage Complete
Patient Details	87.6
Consultant Details	98.5
Listing Surgeon	84.6
Diagnosis	4.9
Procedure	99.6
Operating time	92.9
Urgency of Surgery	88.8
Use of Anti-Coagulant	99.6
Pre-Operative Assessment Clinic	70.8
Pacemaker Check	99.2
Legibility	88.4
Completed List of Comorbidities	41.1

• Only 19.9% had accurate completion of theatre listing forms.

Discussion:

There were several cancellations and delays in the surgical procedure due patient becoming temporarily unfit for the procedure or had a pacemaker. However since the forms were not filled properly, it was only known on the day of the procedure. This delay reduced the efficiency of the theatre list and patients' surgical procedure had to be rescheduled. This indirectly causes dissatisfaction in patients' care and a waste of NHS resources as the surgical slot could be given to another patient on the waiting list.

There was lack of information of patients' co-morbidities. This caused the department to lose money when not all co-morbidities are ticked.

Conclusion:

Improvement is needed as over 80% of the forms were incompletely filled. An online listing form would increase the accuracy of completing these theatre forms. This will improve legibility and increase the completion of all criteria to avoid unnecessary cancellations and ensure excellent patient care.

A re-audit in six months will be performed after the implementation of the online listing forms.

<u>References:</u>

1. NHS.Non-Melanoma Skin Cancer Treatment. https://www.nhs.uk/conditions/non-melanoma-skincancer/treatment/ (accessed 2 July 2020).

2. NHS. Operating theatres: opportunities to reduce waiting lists.https://improvement.nhs.uk /documents/3711/Theatre_productivity_report__Final.pdf (accessed 2 July 2020). 3. NHS. The NHS Long Term Plan. https://www.longtermplan.nhs.uk/wp-content/uploads/2019/01/ nhs-long-term-plan-june-2019.pdf (accessed 3 July 2020).

Contact Details: Name: Dr Adlene Adnan Trust: East Lancashire Trust Hospital Email: adlene_aia@yahoo.com Phone : 07709710653





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Poster 24: Management of Incidental Pancreatic Cysts - Are we adhering to guidelines? Rezwan Ahmed¹, Afroza Sharmin², Tarun Singhal², Mayur Kumar³

Introduction

The prevalence of asymptomatic pancreatic cyst ranges from 2.2% - 13.5%. The majority of these are incidentally diagnosed. Only 31% of these cysts were documented in radiology reports. Neoplasia was increasingly identified in them. Most NHS Trusts do not have robust pathways to manage incidental pancreatic cysts. We reviewed management of incidental pancreatic cysts and adherence to guidelines.

Retrospective data was collected across three hospital sites in our Trust between January 2018 to January 2019 when there were no trust guidelines. Reaudit was performed between July 2019 to February 2020 following the introduction of local guidelines which recommend all pancreatic cysts to be discussed in specialist multi-disciplinary team (MDT) meetings.

Types of	f Pancreatio	c Cysts
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Pseudocysts

- Seen in pancreatitis. Benign in nature with no malignant transformation.

Serous Cystadenomas

- Usually women in 50s.

- Mostly
- asymptomatic.
- Benign in nature.

Intraductal Papillary Mucinous Neoplasms

- Most common neoplastic cyst in pancreas. - Produces mucin and Has risk of malignant transformation.

Mucinous Cystic Neoplasms

- Typically found in women. - They have malignant
- potentials







		Result	S	
Table 1:	1		< 7	
Periods	N	MDT Referrals	No MDT I	Referral
First	79	42 (53%)	37 (47%)	
Second	28	18 (64%)	10 (36%)	
		First Pe	eriod	
Surv	eilla	nce	28%	A .
			30/0	
No S	urve	elllance		62%
No S	urve	eillance	30/0	62%
No S	urve	elllance Second Pe	eriod	62%
No S	eillar	Second Pe	eriod	62%
 No S Surv No S 	eillar	Second Pe	eriod	62%
 No S No S 	eillar	Second Period	eriod 0%	62%
No S Surv No S	eillar Gurve	Second Perillance	eriod 0% 100%	G2%
 No S Surv No S igure 1: 100% - 	eillar	Second Perillance	eriod 0% 100%	G2%
 No S Surv No S igure 1: 100% 50% 	eillar Surve	Second Pe	eriod 0%	G2%
 No S Surv No S igure 1: 100% 50% 0% 	eillar Gurve	Second Period Second	Period	G2%

1.Department of General Surgery, Royal Free Hospital NHS Foundation Trust, NW32QG

- 2. Department of General Surgery, Princess Royal University Hospital, BR68ND
- 3- Department of Gastroenterology, Princess Royal University Hospital, BR68ND

Methodology







Implication of COVID-19: 12 months data could not be collected in the second phase due to disruptions in the local services caused by COVID-19. The resulting sample size over nine months is therefore smaller in comparison to the first audit cycle.

A trend of increased MDT referral was observed in the second period by 11% (p=0.3 with Chi square test).

36% of patients were still not referred (Table 1)

During the initial audit, 62 % (23/37) of patients in the Non-MDT group had no surveillance scans, potentially missing high-risk patients and 38% of patients (14/37) still underwent surveillance scans from non-GI specialists which could be unnecessary. (Fig.1)

44% of patients underwent surveillance following MDT in the second period as compared to 83% prior to guidelines (p= 0.002) (Fig.2)

Conclusion

-Robust guidelines in place for incidental pancreatic cysts helps identify high risk cysts which warrant future surveillance and appropriate treatment, avoid unnecessary imaging, thereby releasing radiology capacity.

-MDT referral ensures malignant transformations are identified early and reduce morbidity and mortality.



Recommendation

Discussion and dissemination of the new trust guidelines with other relevant non-GI teams will help in the adherence to this pathway and avoid losing high-risk patients in the community.

-Re-audit cycle to be performed over 12 months period after one year of implication of the guidelines for more updated and comparable results.

King's Guidelines: Snapshot

Clinical features that warrant urgent referral to King's HPB MDT regardless of size & morphology:

- Obstructive jaundice, weight loss.
- Elevated serum 19-9 or CEA.
- Strong family history of pancreatic cancer
- New onset or worsening diabetes.
- Repeated attacks of pancreatitis.

References

(1)Karen S L, Aarti S, Nell M R, et al. Prevalence of Incidental Pancreatic Cysts in the Adult Population on MR Imaging (2) Ye R C, Joo K P, Jin-Young J, et al. Incidental pancreatic cystic neoplasms in an asymptomatic healthy population of 21,745 individuals (3) James M S, Joo H H, Paul M. American Gastroenterological Association Technical Review on the Diagnosis and Management of Asymptomatic Neoplastic Pancreatic Cysts. Grace H E, Brintha K E, Bryan G S, et al. American College of Gastroenterology Clinical Guideline: Diagnosis and Management of pancreatic cysts



Poster 25: Audit of Patient Outcomes after Free Flap Breast Reconstruction following Mastect 2020 BASO Annual (virtual) Meeting Lessons Learned in Improving Quality of Service Provision.

Introduction / Background

In 2011 the National Mastectomy and Breast Reconstruction Audit (NMRBA) found clear variations in the delivery of information, services and patient outcomes nationally in 18,000 women.

This lead to the development the 2012 Oncoplastic Breast Reconstruction Guidelines for Best Practice (OBPS)¹. The OBPS provide a range of quality criteria (QC) and associated targets, which define a framework that should be used to assess current practice and deliver high quality care in every stage of the patient's clinical pathway.

A new autologous breast reconstruction service was established in our unit on July 2018. This audit was developed to assess the new service against quality criterias (OBPS) related to patient outcomes, complications and satisfaction with information; as well as areas for service improvement.

Objectives

- Identify the rate of post-operative complications following free flap breast reconstruction; and the incidence of return to theatre and length of hospital stays related to this.
- Determine number of unplanned readmissions after free flap breast reconstruction within 3 months following discharge from initial surgery. **QC17 of OBPS targets** unplanned readmissions should occur in less than 5% of cases within 3 months.
- Determine if all patients with postoperative complications following free flap breast reconstruction are reported (audited) and discussed in the departmental clinical governance; CG (morbidity and mortality; M&M) meetings; *as targeted in QC18 of OBPS*.
- Determine the number of patients who were satisfied with their information provision at 4. 3 months; based on their BREAST-Q survey tool^{2,3} results. **QC19 of OBPS states that** satisfaction with information provision should be reported by 80% of patients at 3 months.

National	ABS		BREAST-Q [™] - RECONSTRUCTION MODULE (POSTOPERA SATISFACTION WITH INFO	TIVE) VERS	ION
Mastectomy		BAPRAS	How satisfied or dissatisfied were you with the information you recei	ived from yo	ur :
and Breast	BREAST SURGERY	British Association of Plastic Reconstructive and Aesthetic Surgeons		Very Dissatisfied	S D
Reconstruction			a. How the breast reconstruction surgery was to be done?	1	
Audit			b. Healing and recovery time?	1	
2011	ONCOPLASTIC BREA	AST RECONSTRUCTION	c. Possible complications?	1	
	Guidelines for Best Pr	actice	d. The options you were given regarding <u>types</u> of breast reconstruction?	1	
			e. The options you were given regarding <u>timing</u> of your breast reconstruction (i.e., same time as your mastectomy versus later)?	1	
REPART -			f. The pros and cons of the <u>timing</u> of your breast reconstruction?	1	
All the second s			g. How long the process of breast reconstruction would take from start to finish?	1	
1 Charles and the second second			h. What size you could expect your breasts to be after reconstructive surgery?	1	
			i. How much pain to expect during recovery?	1	
			j. What you could expect your breasts to look like after surgery?	1	
			 How long after reconstruction surgery it would take to feel like yourself/feel normal again? 	1	
			 How the surgery could affect future breast cancer screening (e.g., mammogram, self-examinations)? 	1	Γ
			m. Lack of sensation in your reconstructed breast(s) and nipple(s)?	1	
			 What other women experience with their breast reconstruction surgery? 	1	
	Editors: Dick Rainsbury and Alexis Willet	t	o. What the scars would look like?	1	
	N		BREAST-Q VERSION 2.0 © Memorial Sloan Kettering Cancer Center and The	University of	Brit

Contact

Miss Vi Vien Toh/ Mr. William Holmes Mid Yorkshire Hospitals NHS Foundation Trust Email: vivien.toh@nhs.net, willholmes@nhs.net Vi Vien Toh; John Kiely; William Holmes Mid Yorkshire Hospitals NHS Trust

Methods and Materials

- Sample: All patients who have had free flap reconstruction following mastectomy since service inception (July 2018) up to March 2020 were identified using the UK National Flap Registry.
- Sample size: 32 patients; 33 flaps.
- Audit process: Prospective data collection using the UK National Flap registry; patient electronic medical records, patient survey (Breast-Q) and Plastic Surgery department M&M archives (electronic) by Plastic Surgery trainees in the Breast Microsurgery firm. 100% of data obtained was validated through an independent review by a Consultant and results were compared at completion of data collection.



Results

- 3% (1/33) of free flaps failed. The average length of stay of readmissions is 3 days (0-15) Common complications (Chart 1) include mastectomy flap infections (23%) or fat necrosis (15%)
- 33% (11) of patients were readmitted to hospital. The average time of admission was on 2. post-op Day 25 (7-82). 73% (8/11) of readmitted patients returned to theatre;
- 3. Patients who were classified as Grade II and above in the Clavien-Dindo Classification for Surgical Complications⁴ were deemed significant enough to be reviewed at CG. 11 patients were identified; only 73% (8) of cases were formally discussed at M&M.
- 59% (19) of patients returned their post-operative Breast-Q's despite a 100% return rate 4. of pre-operative questionnaires. 58% (11/19) of patients scored an overall above 80% for satisfaction with information provision (Chart 2); although results were skewed by a poor response rate.



Chart 2. Overall Breast-Q scores for satisfaction with information provision



References

- 2. Breast-Q[™] UK Version; Reconstruction module (Postoperative) 2.0. http://qportfolio.org/wp-content/uploads/2018/12/BREAST-Q-USERS-GUIDE.pdf





Chart 1. Frequency of complication types as causes for readmission.

Discussion & Plans for Service Improvement

1. Majority of reoperations were debridement of mastectomy flap necrosis. This was presented at Breast CG. To reduce mastectomy flap necrosis rates; intraoperative assessment and aggressive debridement of mastectomy skin flaps is performed.

2. All readmissions were reviewed; 27% (3/11) were inappropriate. To reduce unnecessary readmission, follow-up appointments are streamlined to help early identification and management of complications with support of the use of telemedicine.

3. Although 100% of postoperative complications were audited in the local Breast Reconstruction database; some significant complications were not highlighted for CG. A named representative (trainee) was tasked to monitor and log future cases for CG.

4. Poor postoperative response rates were related to difficulties with postal returns and inconsistencies with timing of follow-ups. To improve return rates; an online form was enabled and follow-up appointments were streamlined to allow surveys at 3 months post-op.

Conclusions

Prospective audits using objective and nationally recognised tools can help surgeons to identify areas for development earlier in order to build a strong service. The lessons learned include:

• Aggressive intraoperative assessment of mastectomy skin flaps by Breast and Plastic surgeons;

Need for earlier recognition and senior review of patients at higher risk of reoperation.

Regular follow-up appointment to enable postoperative Patient Reported Outcome Measures (PROMS) questionnaire completion.

1. Oncoplastic Breast Reconstruction: Guidelines for Best Practice. November 2012. Source: http://www.bapras.org.uk/docs/default-source/commissioning-and-policy/final-oncoplastic-guidelines---healthcare-professionals.pdf?sfvrsn=0

3. Pusic AL, Klassen A, Scott A, Klok J, Cordeiro PG, Cano SJ. Development of a New Patient Reported Outcome Measure for Breast Surgery: The BREAST-Q[©]. Plast Reconstr Surg. 2009 Aug;124(2):345-53.

4. Dindo D, Demartines N, Clavien PA. Classification of surgical complications: a new proposal with evaluation in a cohort of 6336 patients and results of a survey. Ann Surg. 2004;240(2):205-213. doi:10.1097/01.sla.0000133083.54934.ae



Poster 31: Achieving 62-day targets in the management of skin cancer – lessons 2020 BASO Annual (virtual) learned and future directions

Ailbhe Kiely¹, Chantal Patel², Amir Ismail² 1. Department of Plastic and Reconstructive Surgery, Queen Elizabeth Hospital 2. Department of Plastic and Reconstructive Surgery, Royal Stoke University Hospital

Background

The 62-day target requires all fast-track suspected cancers to be treated within 62-days of referral.

This objective was set out by the Department of Health in the National Health Service (NHS) Cancer Plan 2000¹ and adjusted in the 2007 Cancer Reform Strategy² to include an expected compliance of 85%.



Objectives

The objective of this audit was to established the cause of delay for patients exceeding the 62-day wait target for skin cancer excisions at University Hospitals of North Midlands.

This was measured against the NHS Cancer reform strategy standard.

Methods

A thorough analysis of the timeline from GP referral to treatment was undertaken for all patients who breached the 62-day treatment target for cutaneous squamous cell carcinoma (SCC) and melanoma between Oct 2017 – Sep 2019.

Factors involved in the breach of these patients were identified and explored. These included:

- Patient co-morbidities
- Time between GP referral sent and received
- Initial specialty and action taken
- Time to biopsy
- Time from biopsy to formal procedure
- MDT and histology wait times

Statistical analysis was undertaken using SPSS.

rec Day app Day sur Day tol Day Day Sur Day

Table demonstrating delays at various stages of the skin cancer referral pathway

References

1.Department of Health. The NHS Cancer plan: a plan for investment, a plan for reform. 2000. 2.Department of Health. NHS Cancer reform strategy. 2007.

A chart to show delays (days) at each stage in the pathway using boxplots

	Mean/*median	SD/ *IQR
Total number of days from GP referral to formal procedure	<u>70.5</u>	6.24
Days taken for GP referral to be received	*5	*5.5
Days from GP referral to Dermatology appointment	9.34	4.552
Days from GP referral to Plastic surgery (1 st) appointment	9.86	8.03
Days from Dermatology appointment to Plastic Surgery appointment	41.71	25.23
Days taken to biopsy in Dermatology	25.07	16.06
Days taken to biopsy in Plastic Surgery	26.38	10.56
Days from biopsy to formal procedure	49.6	29.9

Results

- period

Suggestions for future directions and Conclusions

With the above efforts, the number of patient encounters with the healthcare service and the length of time they spend waiting for diagnosis and treatment of skin cancer could potentially be reduced.

Contact

Chantal Patel University Hospitals of North Midlands Email: chantalpatel@hotmail.co.uk

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Seventy-two patients (mean age 79 years) breached the 62-day target, making up 10.1% of the skin cancers treated for the time

There were 65 SCCs and 7 melanomas

• The median time from referral to procedure in patients who breached was 75 days (IQR 68-90)

The longest delays in the pathway occurred in those who had an initial diagnostic biopsy (mean 54.0 days) or an initial appointment with dermatology that were subsequently referred to plastic surgery (mean 42.7 days)

Delays were most commonly due to inadequate operating capacity (29%), followed by delays due to patient fitness for surgery (26%)

• In accordance with Summer being the busiest time for referrals in our centre, the peak of breaches occurred in November and in February, following a decrease in service provision over the Christmas period

• Appropriate triaging of patients to either plastic surgery or dermatology in order to reduce delays caused by inter-specialty referrals e.g. for complex lesions

"Parallel" clinics where dermatologists and plastic surgeons are consulting in adjacent rooms

• Consider some form of mini pre-assessment for patients so that unexpected co-morbidities don't lead to cancellations

• Fast Track histology pathways for those undergoing incision biopsy









Fig 1 – Intra-operative photograph showing the resection of an intradural tumour (meningioma)

To provide a service evaluation of all intradural spinal tumour resections conducted at the Royal Orthopaedic NHS Foundation Trust (ROH) from January 2017 to December 2018

December 2018 were reviewed.

Pre-operative, intra-operative and post-operative outcomes were obtained from patient case notes, the online clinical portal, theatre books and the PICS software system.

Inclusion Criteria

Intradural spinal tumour resection Treated at ROH January 2017 – December 2018

Table 1 – Inclusion and exclusion criteria for cases in this service evaluation

18 patients were identified. One patient excluded (extradural pathology), leaving patients for review.

The following NICE guidelines, applicable to the excision of extramedullary intradural tumours, were used as a guide for generating outcomes. ⁽³⁾ These served as a benchmark to which the ROH intradural resection service was compared.

- following presentation.
- Investigation with MRI.
- deterioration.
- complications or tumour recurrence.

the 'Results' section.

Pre-Operative Outcome

PMH requiring HDU admission (Y/N Significant FH (Y/N) ASA

Smoking status (Y/N)

Pre-operative imaging: Whole spin MRI (Y/N), gadolinium MRI (Y/N)

Mean time from diagnosis* to oper MDT review (Y/N)

Pre-operative Treatment

Oswestry Disability Index (ODI) EQ-5D

Table 3: Results of pre-operative outcomes. *diagnosis taken as date of MDT.

Contact: Basil Yannoulias Email: BXY544@student.bham.ac.uk Telephone: 07979615223

Poster 60: Intradural Tumour Resections at The Royal Orthopaedic Hospital NHS Foundation Trust: Service

Evaluation Yannoulias B¹, Golmohamad R², Czyz M²

¹The University



BACKGROUND

Intradural tumours can be intramedullary or extramedullary. The vast majority are benign, and are treated with surgical resection if they become symptomatic. ^(1, 2)

The Royal Orthopaedic H

OBJECTIVE

METHODS

All patients who underwent intradural tumour resections at the ROH between January 2017 and

	Exclusion Criteria
า	Insufficient follow-up data (under 6 weeks)
	Extradural pathology

was 17	Mean Age at Surgery (Years)	60.9 (Range: 29-82)
	Sex (M:F)	3:14

Table 2 – Summary of patient characteristics (n=17)

Specialist MDT discussion and management plan formulation is beneficial for all patients

• Aim of treatment for patients with low-grade tumours is to prevent further neurological

 Monitoring and early resection of enlarging or symptomatic lesions in high-risk patient groups, for example those with neurofibromatosis types 1 & 2. Regular follow-up with MRI and clinical examination to identify and treat postoperative

All pre-operative, intra-operative and post-operative outcomes investigated are outlined in

RESULTS

The following four tables show the results for each outcome.

	Overall Result (n=17)
N)	8
	1
	ASA 3: 2 patients ASA 2: 12 patients ASA 1: 3 patients
	3
e MRI (Y/N), brain	16 patients had a full-spine MRI. Of these, 3 also had a brain MRI and 5 had a gadolinium-enhanced MRI.1 patient had a cervical spine MRI only
ration (weeks)	7.6. (Range: 1 day-16 weeks)
	15 patients were reviewed at MDT pre-operatively 1 patient had symptomatic spinal cord compression and underwent urgent resection 1 patient was added onto operating list following diagnosis, without MDT review
	Opioids: 7 NSAIDS: 3 Physiotherapy: 4 Steroid Injections : None
	Not reported
	Not reported

of Birmingham		21 st – 23 rd No
spital NHS Foundation Trus	t	
Intra-operative Outcome	Ove	erall Result (n=17)
'Skin-to-skin' mean time (hours)	2.8	(based on data from 13 cases)
'In-out' mean time (hours)	3.3	(based on data from 15 cases)
Mean estimated blood loss (ml)	280) (based on data from 6 patients)
Use of instrumentation (Y/N)	1 (h	pemilaminectomy performed for [5 peuroma)
Valsava Manoevre Performed (Y/N)	_ (. 	
Use of staples for closure (Y/N)	т 2	
Tothering of tumour to cord or rootlets	12	
(Y/N)	12	
Rootlets excised (Y/N)	9	
Dural Tear (V/N)	1	
Local Apacthetic Infiltration (V/N)	17	
	I/	ceribed at 24 hours past operatively in all cases. Detionts the
	me	an of 1.5 additional doses on subsequent days. (Range: 0-6)
Dexamethasone use	Ove	er 1 day (9); over 2 days (4)
Mean bedrest duration (hours)	29.	5 (based on data from 13 patients)
Antibiotic cover	9 p	atients received 24 hour cover. 8 patients received a single d
	Nor pro reg	rth American Spine Society recommend a 'single dose of pre- phylactic antibiotics' for typical cases, whilst 'prolonged pos- imens may be considered in complex situations'. ⁽⁴⁾
Table 4 – Results of intra-operative outco	omes	
Short-term* Post-operative Outcome		Overall Result (n=17)
Infection (Y/N)		None
Neurological Deficit (Y/N)		4
CSE Leak (V/N)		None
Return to theatre (Y/N)		None
Post operative headache (V/N)		4 Moon duration: 2 E days
Post-operative neadacite (1/10)		4. Mean duration. 5.5 days.
Mean time of bed-rest (days)		2.4
Maximum post-operative pain score (VA	S)	5.9 (Range: 1 to 10)
Post-operative Opioids (Y/N)		8
Post-operative NSAIDS (Y/N)		4
Mean time to TWOC (days)		4.7 (Range: 1-14)
Mean length of stay (days)		7.7 (Range: 2-18)
Table 5 – Results of short-term post-oper	ative	outcomes. *Short-term was defined as within two weeks po
Long term Pact anarative Outcome		Overall Posult (n=17)
Clinical examination at follow up		17
Post operative imaging		Post operative MPL in 12
Post-operative imaging		XR only in 1 patient No post-operative imaging in 3 patients
Post-operative symptoms		14 patients experienced improvement, 11 of which experies complete resolution of symptoms. No change form present seen in 3 patients.
		awaiting MRI for a suspected new lesion; suffered propriod
Return to theatre (Y/N)		None
Post-operative headache (Y/N)		4. Mean duration: 3.5 days.
Mean time of bed-rest (days)		2.4
Post-operative treatment		1 patient received steroid injections (suffered from degene changes in lumbar spine; not to do with resection)
Re-admission (Y/N)		1 patient was re-admitted (following a fall unrelated to the
Recurrence (Y/N)		0 patients (minimum 5-month follow-up period)
Time for histological diagnosis (days)*		12.5 (Range: 5-20).
Oswestry Disability Index (ODI)		Not reported
EQ-5D		Not reported
Table 6 – Results of long-term post-opera	tive	outcomes. * Specimen taken during surgery, then sent for hist
analysis.		
		DISCUSSION
	. In	
service from January 2017 to Dec	nat cem	ber 2018. All patients received pre-operative MRI

underwent post-operative clinical examination. No recurrences were reported over a minimum 5-month follow-up period. However, one patient was **not reviewed at MDT** pre-operatively and four patients did **not undergo post-operative MRI** scanning.

CONCLUSION

The intradural resection service in January 2017– December 2018 largely adhered to NICE guidelines. The following changes will be made to improve the service:

- 1. Review all patients by the spinal oncology MDT pre-operatively and neuro-oncology MDT following histopathology results
- 2. Calculate and record pre-operative and post-operative ODI and EQ-5D scores for all patients undergoing intradural tumour resections.
- 3. Upload outcomes to British Spine Registry

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en received a

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esection scans, 16/17 patients did not suffer from further neurological deterioration, and all patients



- Pancreatic cancer mortality
- Surgical resection via pancre for cases that have not meta
- Preoperative biliary drainage operating on jaundiced patie complications(3).
- A 'fast track' pathway for res University Hospitals Birming 2015(4).
- The pathway has been show the time taken to receive PD

Study Design: service eval sent to members of the he of the hepatobiliary MDT in development of a topic gui

- Inclusion criteria: member referring centre and able to
- Exclusion criteria: any pati • Ethics: ethical approval obt
- Sampling and recruitment recruited using snowball m up
- Data collection: questionn recorded and transcribed v
- Data analysis: questionnai Clarke's thematic analysis u independently coded by pr



Figure 1: Awareness of fast track from UHB. Questionnaire in respondents were aware of resectable pancreatic cancer in U respondents indicated awarenes the number of respondents, and Yes/No options available.



Figure 2: Awareness of fast trac from referring centres. Horizonta respondents, and vertical y-axis available.

- Pathway depends on extensiv centres Clinical nurse specialists vital
- unit, UHB and patients. Pathway relies on clinical lead
- manage opposition and ensu Phased implementation of th
- arose, providing more time to Culture of continuous improv dedicated pathway coordinat
- Pathway follows NICE guidant but more evidence needed to
- Interviewees noted emotional Practical factors such as flexib and referring centres.
- A definitive randomised cont track surgery is carried out, s advantage of avoiding PBD.
- To assist in wider uptake of t understanding of contextual
- Qualitative work to assess er cancer patients

Poster 61: 'Fast track' Path	Way for Resectable P Health Services Manageme University Hospitals Bir Basil Yannoulias ¹ , Mark Exw	ancrea ent Centre rminghan vorthy ¹ , F	Itic Cai 2, Univers n NHS Fo Hilary Bro	ncer: a Mix sity of Birmingl undation Trust own ¹ , Keith Rok	ked-Me ⁻ ham ¹ 2 perts ²	thods Servio	ce Evaluation	2020 BASO Anr Meeti 21 st – 23 rd
BACKGROUND					W	HAT DOES THI		
tality closely matches incidence(1).			This stud	y is the first to	incorpora	te both quantita	ative and qualitative to	echniques to eva
pancreaticoduodenectomy (PD) offers a potentially curative solution the pancreatic tissue(2).		n 1	fast track	pathway for r	resectable	pancreatic cance	er in UHB and referrir	ig centres
ainage (PBD) became standard practice to minimise the risk of dependent of dependent of dependent of dependent of the standard practice the risk of dependent of the standard practice the risk of dependent of the standard practice the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of dependent of the standard practice to minimise the risk of			Aim: To r	provide an up-t	o-date eva	AIM & OB. aluation of the fa	JECTIVES ast track pathway for	resectable panci
for resectable pancreatic cancer which irmingham NHS Foundation Trust (UH	n avoids PBD was introduced in B) and referring centres in	n (cancer, b Objectiv I. To a	y exploring view es: Issess awarene	ws of clini	cians involved in ast track pathwa	n its delivery. Ny among clinicians in	UHB and referri
n shown to increase the number of pative PD, and save around £3200 per pa	ients undergoing PD, decrease tient(4).	e l	cent II. To a III. To a	tres issess barriers i issess facilitato	n impleme rs in imple	enting the pathw menting the pat	vay in UHB and referr thway in UHB and refe	ng centres erring centres
		METHO	IV. IO e	xplore cliniciar	ns' views o	f reasons behind ay	d successful, partially y	successful and
ce evaluation with a sequential explan	atory design. Online question	naires	Sample					
the hepatobiliary MDT in UHB, and se MDT in referring centres. Questionnai pic guide for one-to-one, semi-structu	parate questionnaires to mem re results used to inform red interviews.	bers	UHB Qu	estionnaire	3 respo and con	ndents: consulta sultant surgeon.	ant hepatologist, consu	ıltant gastroente
ember of MDT involved in treating par able to communicate in English	ncreatic cancer in UHB or a		Referrin	g Centre	11 resp	ondents (8 respo	ndents provided occu	pation information
ny patient treated for pancreatic cance	er via the fast track pathway		Question	nnaire	consulta specialis	ant gastroenterol sts and 1 consulta	logists, 2 consultant su ant hepatologist.	rgeons, 2 clinica
tment: purposive sampling for questic	onnaire respondents. Interview	vees	Intervie	ws	-		· -	
ball method from established contact stionnaires designed to take less than	5 minutes to complete. Interv	ow- riews			11 clinic ✓ 6 cli ✓ 4 su	ans interviewed inicians from UHI irgeons, 5 clinical	(5 face-to-face, 6 by te B, 5 clinicians from ref I nurse specialists, 1 ga	elephone), comp erring centres. Astroenterologist
ionnaire analysis auto-generated by Q alysis used to analyse interview transc	ualtrics XM [®] software. Braun a ripts. One transcript was	and			med	dical oncologist		
a by project supervisor for investigato		RESU	LTS					
	"We went to the local team started with a fairly soft laur	is and we nch: I thin	ık	"They have	made a re	al effort to visit,	, "We just went	round all the re
	Heartlands and New Cros	ss first."		give feedb thing. improvem	oack on cas s are going ents, ask v	ses, tell us how g, suggest vhat we think."	trusts. I think worth we'd b trusts."	vithin three or s been to all the re
1.5 2 2.5 3	Theme: Evolution			Theme: Co	ollabora	ation	Theme: Le	adership
ire included an item asking if	 Phased implement Introduction of ter 	tation molate	,	 UHB tea provide 	am wiili regulai	ng to r feedback t	 Securing Visits to 	; funding
er in UHB and referring centres; all 3	 Introduction of template documents to guide 		referring teams			to engag	stakehold	
areness. Horizontal x-axis represents nts, and vertical y-axis indicates the	referrers			• Discussi	ions at	professional	l manage	opposition
	Increasing bilirubin	n (mar	ker	meeting	gs of one of	_	Engaging	g and educa
	eligible patier The	me: Co	ordina	ation	ar oper ati T	heme: Clini	ical benefit	udv davs
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ast track pathway among respondents rizontal x-axis represents the number of	ec er	aucate	reterr	ing teams t	.0	Further		y
y-axis indicates the Yes/No options	"We've fou	und it qui	te easy to	o do the		to "The ma	ain reason to do it was	s just to
	we work bed	cause we	re a big :	team and		ne avoid the	e biliary drainage and e care for the natients	improve
	we dor	n't have r	าamed lis	;ts."		resectable	pancreatic	
CONCLUSION						CERCETHS &	LIMITATIONS	
xtensive collaboration between stakeh	olders in UHB and referring		Strength	IS			Limitations	
s vital in managing the communicatio cal leaders in LIHB to 'sell' benefits of r	n triangle between the referrin	ng	 ✓ Clin cen[*] 	icians from botl tres included	h UHB and	referring	× Limited questionn	aire respondents
d ensure ongoing stakeholder engager n of the pathway may have aided in m	nent anaging clinician opposition as	s it	 ✓ Clin prot 	icians from a ra fessions include	inge of spe ed	cialties and	× Patients not includ	led
mprovement, such as through introdu	ction of template documents a	and	 ✓ Inde triai 	pendent codin ngulation	g of transc	ript for	× Underrepresentat medical oncologists a	ion of gastroente and radiologists
ded to ascertain effects of NAC(5). otional impact on patients of early dia s flexible theatre space ensured sustai	agnosis and surgery nability of the pathway in UHE	, 3	 ✓ Que und inte dep 	estionnaires pro erstanding of th rviews explored th	ovided geno he topic wl d clinicians	eral nereas ' views in	× Potential for gates snowball sampling or	eeper bias due t f interviewees
FUTURE RESEARCH						REFERE	ENCES	
d controlled trial comparing NAC to a out, such that the patients in the con PBD. ke of the pathway futuro research ma	control group in which fast trol group can have the		1. Neop Hepa 2. Kimu	tolemos JP, Kle tol. 2018. ra W, Miyata H,	eff J, Mich , Gotoh M,	l P, Costello E, G Hirai I, Kenjo A,	reenhalf W, Palmer D , Kitagawa Y, et al. Anr	H. Nat Rev Gastr n Surg. 2014.
extual factors in other tertiary centres sess emotional impact of early versus	and their referrers. delayed PD for pancreatic		3. Scheu 4. Rober 5. NICE	ifele F, Schorn S rts KJ, Prasad P, Guideline 85: F	S, Demir IE , Steele Y, I Pancreatic	:, Sargut M, Tieft Marcon F, Faulkn cancer in adults:	trunk E, Calavrezos L, her T, Cilliers H, et al. I : diagnosis and manag	et al. Surgery. 20 HPB (Oxford). 20 gement. 2018

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Poster number 92: A Retrospective Study Comparing Histopathology Proformas For Anterior **Resections Against The RCPath Guidelines**

Dr S Dardak (FY2); Dr S Gooneratne (FY2); Mr W Butterworth (ST4 General Surgeon); Mr E Leung (Consultant General Surgeon). Acknowledgements: Dr R Rao (Consultant Histopathologist). Hereford County Hospital, Wye Valley NHS Trust.

Introduction / Background

The Royal College of Pathologists (RCPath) [1] have published guidelines on the clinical information required on histopathology request forms for colorectal cancers. Specific information such as the nature of resection and site of tumour, histological type of tumour, preoperative tumour staging (along with details of preoperative therapy if given) should be specified on the request forms. A background of the patient's family history (specifically familial cancers or IBD), if the tumour was detected as part of a screening programme and the type of surgery performed [1] are also information that the RCPath has identified as being a requirement on histopathology forms.

Objectives

- To audit the compliance of the clinical information provided by surgeons in our local trust in relation to the RCPath guidelines.
- To suggest ways in which the current practices can be improved to 2. ensure greater adherence to guidelines.
- To encourage collaborative work between surgeons and 3. histopathologists with an aim to implement changes to further improve clinical practice





Methods and Materials

Data was initially gathered from the histopathology secretaries who provided a list of 150 patients who have had anterior resections between the years 2014-2019. The request forms were manually checked for the clinical information provided on each paper form against the RCPath guidelines and data recorded on a proforma. A total of 50 paper request forms were reviewed and audited (see figure 1).



Results

94% (47/50) of the request forms mentioned the site of tumour resection; 56% (28/50) specified the nature of resection and 48% (24/50) had mentioned the type of surgery performed, (i.e. whether open or laparoscopic, see figure 2). Out of the 50 request forms reviewed, 10% mentioned whether pre-operative therapy was given and specified the nature of therapy. Only 4% recorded the preoperative tumour staging and whether the cancer was detected from a screening programme (see figure 3). Information such as family history, histological type of tumour on diagnostic biopsy, duration of pre-op therapy, the type and dissection plane of operation were not recorded on none of the request forms.



Figure 3. Bar graph showing the frequency of reporting of clinical information on the request forms provided to histopathologists. (n=50).

A study carried out in Scunthorpe General Hospital, UK [2] assessed 500 clinical request forms of patients with large bowel cancer resections and found that the clinical information was inadequate in relation to the RCPath guidelines. It was noted that the pre-operative stage of the tumour was recorded in 5.4% of cases, and 0.6% of request forms mentioned whether the tumour was detected as part of a screening programme [2]. In comparison, to our audit which was 4% for both parameters. The lack of adequate information on clinical request forms could be due to several reasons, one important aspect we considered was the lack of space on the paper request forms. To improve this, we have suggested an electronic form with mandatory fields to be completed .

To conclude, reporting of clinical information provided on request forms is substandard and needs improvement. The nature of the resection and site of tumour are being well recorded. However, significant information such as pre-op therapy, type and dissection plane of operation attempted and family history are absent in the majority of request forms audited. We believe that the implementation of an electronic form would help improve the information histopathologists receive and plan a reaudit to assess whether our suggested change was significant in improving outcomes.

References:

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Figure 1. Flow diagram illustrating the method and process of data collection. N = 50(total number of request forms audited).

Conclusions

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Poster 95: Audit on Oncoplastic/Reconstructive Breast Surgery Operative Notes According to the Royal College of Surgeons and Association of breast surgeons Guidelines before and after the introduction of standard templates at **Glenfield Hospital Leicester.**

Introduction:

The Association of breast surgeons(ABS) and the Royal College of Surgeons (RCS) have standard guidelines for operative notes as lack of proper documentation can lead to Issues with Patient safety Difficult for on call team to look after patient without all appropriate information

Nursing staff may not be able to read note or post op instructions

Medico legal issues

Is procedure being described in adequate detail?

Would they stand up to scrutiny in a coroners court if needed

Results: All the notes reviewed before introducing the templates had information on the procedure performed, side of the performed procedure, the type of prosthesis used and instructions for the drains. Date was missing in 2% of notes, surgeons name in 10%, Name of assistant in 15% and specimen weight in 60% of the notes. Similarly, 50% of the notes missed out the indication for surgery, the VTE prophylaxis and the type of dressings used. Specimen orientation was only mentioned in 5% of the notes. Similarly, other standards like position of prosthesis (subpectoral/pre-pectoral), amount of expansion, postoperative antibiotics, use of mesh, use of local anaesthesia were missing. None of the notes reviewed were 100% compliant with the standards. Re-audit after the introduction of the templates showed 100% information on all the standards except for indication of surgery which was missing in 9(30%)) of the operative notes.70% of the notes were 100% compliant.

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Conclusion:

The introduction of preformed standard operative notes for complex Oncoplastic and reconstructive procedures improved the compliance rate from 0% to 70%.

Contact

Miss Javeria Iqbal University Hospitals Leicester. javeriaiqbal5@hotmail.com 07944635654

Methods:

First Audit: A Retrospective review of 31 operative notes of oncoplastic/reconstruction procedures from August-October 2019. Review of operative notes of oncoplastic/reconstruction procedures **Intervention** : Standard Operative note templates introduced. **Re-Audit:** Total 31 operative notes reviewed from July-September 2019 (delay due to Covid:19).

Javeria Iqbal ,Ahmed Gaber, Walid Sasi ,Jaroslaw Krupa. **University Hospitals Leicester.**





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Poster 111: How Well Do We Optimise Patients Prior To Lung Resection?



Introduction & Objectives

- The thoracic patient undergoing lung resection often has modifiable risk factors.
- We set out to examine our current practice in optimising key variables from referral to anatomical lung resection for cancer.
- Our key variables were chosen pragmatically as both optimisable and with evidence base of importance in lung cancer resection

Evidence Based Optimisation Criteria

1) ANAEMIA¹

- Associated with increased morbidity and mortality of thoracic surgery
- Should be identified, investigated and corrected pre-operatively
- Iron therapy preferred 1st line treatment for iron deficiency anaemia

2) BMI²

- Mulnutrition is a risk factor for complications after thoracic surgery
- BMI<18.5 / weight loss >10-15% / 6 months recommended to delay surgery to allow for enteral nutrition
- Initiate oral nutritional supplements for 5-7days before surgery

3) SMOKING^{1,3}

- Associated with increased risk postoperative morbidity and mortality (pulmonary complications)
- Should be stopped at least 4 weeks before surgery
- A delay of 4 weeks to allow smoking cessation appears reasonable
- Both behavioral support and pharmacotherapy are effective

4) COPD⁴

- Use short-acting bronchodilators, as necessary, as the initial empirical treatment of COPD to relieve breathlessness and exercise limitation.
- Offer LAMA+LABA+/-ICS to people who have spirometrically confirmed COPD and do not have asthmatic or steroid responsive features and remain breathless or have exacerbations

Contact

Matthew Smith Specialty Trainee Cardiothoracic Surgery Liverpool Heart and Chest Hospital Email: Matthew.Smith@lhch.nhs.uk

References

M Smith¹, S Mason², S Oo¹, M Shackcloth¹ ¹Liverpool Heart and Chest Hospital, ²University Of Liverpool

Methods and Materials

- Retrospective analysis of 101 consecutive cases undergoing anatomical lung resections in 2018 was performed.
- Pre-operative anaemia, BMI, smoking status and COPD were studied
- The actual management was then compared to evidence based optimisation strategies.

Results

- 32% of the patients were current smokers.
 - Of these smokers, 43% were advised to stop smoking pre-operatively, 39% offered nicotine replacement therapy and 28% referred to a smoking cessation service.
 - Referral rates by registrars were higher than by consultants.
- 43% of patients had COPD based on spirometry with all being in either Stage 1 or Stage 2.
 - Only 51% of those with COPD were on appropriate inhaled therapy.
- Only 2% of patients had a haemoglobin <10, with one being investigated for this and one not.
- 3% of this cohort had a BMI < 18.5 yet none were referred to the dietician.



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Discussion	
KEY NDINGS:	 Considerable gains could be made in efforts to aid smoking cessation One group demonstrated a paradoxical increase in pulmonary complications post surgery in patients who had recently stopped smoking⁵ It is more generally accepted that pre operative smoking cessation is beneficial prior to lung resection^{6,7}. It appears many patients are not on optimal inhaled therapy prior to lung resection and it may be the referring respiratory physician best placed to initiate this.
ITATIONS:	 We acknowledge inherent limitations of retrospective case note analysis It is possible that measures taken but not documented or performed at referring unit A larger cohort is necessary to evaluate anaemia and BMI more fully
JTURE:	 We aim to introduce changes in practice to improve our optimisation In the Covid era with greater use of telephone consultations the optimisation is even more challenging Our unit intends to recruit into the Project MURRAY feasibility study

Conclusions

We identify several areas of potential improvements for our patients undergoing anatomical lung resection.

Considerable gains could be made with our smoking cessation measures and in the treatment of COPD with appropriate inhaled therapies. These improvements need to be made as a collaborative effort with our respiratory colleagues.

Our ability to keep patient waiting times short from outpatient review to admission date provides a challenge in providing optimisation pre-operatively.

FI

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