

NEDi2 Key Performance Indicators

This document defines the key performance indicators (KPI) that will be presented to users on the National Endoscopy Database (NED) dashboard

The KPIs are categorised by procedure type. Calculation methods and other considerations are given. Where available/BSG standards and aspirational JAG targets are given.

For many KPIs/the numerator (total number of specific procedures performed by a specific endoscopist in a stated period) will be derived from procedures where the endoscopist is recorded as 'Independent endoscopist 1'.

For a trainee/this will be the total number of procedures where the trainee is listed as 'trainee' or as 'Independent endoscopist 1' (but is known to be an independent trainee by cross referencing the unique endoscopist ID with their training status).

Endoscopists will be uniquely identified by their GMC/NMC number. Non clinical endoscopists or endoscopists not willing to be identified by their GMC/NMC number will be identified by a unique code generated within the ERS at a local level. This code will be recorded within the ERS in the GMC/NMC code field but would only be known to the local ERS administrator.

An important role of the NED database will be to allow individual colonoscopists/units and hospital trusts to count the overall number of procedures of each type they are performing. Additionally/the database will allow these data to be broken down by indication and procedure findings and the ability to drill down to hospital and trust level.

Table of Contents

OGD..... 3

Colonoscopy.....10

Flexible Sigmoidoscopy.....22

ERCP28

EUS33

ENT.....37



OGD

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
Procedure count	UGIProcNum	Number of diagnostic or therapeutic OGD performed by an endoscopist or site in a stated period of time	Procedure Name - <i>OGD</i>	integer		per endoscopist/including those directly supervising a trainee within the room	100	100% > 100 aspirational standard
D2 intubation rate	OGDD2IR	Percentage of OGD performed by a stated endoscopist /site in a stated period where D2 reached	Numerator: Procedure Name – <i>OGD</i> Extent - <i>Duodenum- Duodenum 2nd part/ Duodenum 3rd part/ duodenum 4th part</i> Denominator: Procedure Name - <i>OGD</i> Exclude procedures where indication is <i>Barretts oesophagus or varices surveillance/screening</i>	percentage		per endoscopist	95%	
Intubation success rate	OGDISR	Percentage of OGD performed by a stated endoscopist /site in a stated period where at least oesophagus reached	Numerator: Procedure Name - <i>OGD</i> Extent - <i>oesophagus/stomach/jejunum/ileum or any of their lookups</i> Denominator: Procedure Name - <i>OGD</i>	percentage		per endoscopist	95%	
J manoeuvre rate	OGDJR	Percentage of OGD performed by a stated endoscopist /site in a stated period where J manoeuvre successfully performed	Numerator: Procedure Name – <i>OGD J Manoeuvre – Yes</i> Denominator: Procedure Name - <i>OGD</i>	percentage		per endoscopist	95%	

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
Median dose (age <70) Midazolam	OGDMLT70	Median dose of midazolam administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name - <i>OGD/midazolam - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> - Yes or <i>General anaesthetic</i> - Yes Age is less than 70	percentage		per endoscopist	≤ 5mg Midazolam	
Median dose (age ≥70) Midazolam	OGDMGT70	Median dose of midazolam administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name - <i>OGD/ midazolam - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	percentage		per endoscopist	≤ 2 mg Midazolam	
Median dose (age <70) Pethidine	OGDPLT70	Median dose of pethidine administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name - <i>OGD/ pethidine - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	percentage		per endoscopist	≤ 50mg Pethidine	

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
Median dose (age ≥70) Pethidine	OGDPGT70	Median dose of pethidine administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name - <i>OGD/ pethidine - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	percentage		per endoscopist	≤ 25 mg Pethidine	
Median dose (age <70) Fentanyl	OGDFLT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name - <i>OGD/ fentanyl - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - Yes age < 70	percentage		per endoscopist	(≤100mcg Fentanyl	
Median dose (age ≥70) Fentanyl	OGDGT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name – <i>OGD / fentanyl - number</i> Denominator: Procedure Name - <i>OGD</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - Yes age ≥ 70	percentage		per endoscopist	(≤ 50 mcg Fentanyl	

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
Unsedated procedures	OGDUS	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the no midazolam/fentanyl or pethidine was administered.	Numerator: Procedure Name - <i>OGD/ pethidine - null / midazolam - null / fentanyl - null</i> Denominator: Procedure Name - <i>OGD</i> Exclude where <i>Propofol - Yes</i> or <i>General Anaesthetic- Yes</i>	percentage		per endoscopist		
Greater than recommended dose	OGDTRD	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70	Procedure Name - <i>OGD</i> When Age <70, midazolam >5mg When Age ≥70, midazolam >2.5mg	percentage		per endoscopist	0	
Comfort score	OGDCOM34	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the comfort level is recorded as moderate or severe.	Numerator: Procedure Name - <i>OGD</i> Discomfort - <i>moderate or severe</i> Denominator: Procedure Name - <i>OGD</i>	percentage		per endoscopist		
Gastric ulcers re-scoped within 12 weeks	OGDGURS12	Percentage of procedures with diagnosis of gastric ulcer who undergo repeat OGD within 12 weeks	Numerator: Procedure name – <i>OGD</i> Diagnosis - <i>Gastric Ulcer and further OGD with indication- ulcer healing within 12 weeks of initial OGD session date</i> Denominator: Procedure Name – <i>OGD</i>	percentage	JAG	service	100%	
Follow up of GU/oesophageal ulcer or grade D oesophagitis at <6-8 weeks	OGDGUOUS68	Percentage of procedures with diagnosis of gastric ulcer/oesophageal ulcer or grade D oesophagitis who undergo repeat OGD within 6-8 weeks	Numerator: Procedure name – <i>OGD</i> Diagnosis - <i>Gastric Ulcer / oesophageal ulcer or Oesophagitis- reflux and LA classification Oesophagitis - D and further OGD with indication - ulcer</i>	percentage	BSG			>90% minimum/100% aspirational

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
			<i>healing within 12 weeks of initial OGD session date</i> Denominator: Procedure name - <i>OGD</i> Diagnosis - <i>Gastric Ulcer / oesophageal ulcer or Oesophagitis- reflux and LA classification Oesophagitis - D</i>					
Quality of mucosal visualisation reported	OGDMVDOC	percentage of OGD procedures where quality of mucosal visualisation reported	Numerator: Procedure name - <i>OGD</i> Proc OGD mucosal visualisation - <i>populated.</i> Denominator: Procedure name - <i>OGD</i>	percentage	BSG			>90% aspirational
Checklist completion	OGDCC	percentage of OGD procedures where a safety checklist is completed prior to the procedure.	Numerator: Procedure Name - <i>OGD</i> Procedure checklist- <i>Yes</i> Denominator: Procedure Name - <i>OGD</i>	percentage	BSG			
Photo documentation (photo obtained of UO/GOJ/fundus in RF/gastric body/incisura in RF/antrum/bulb/D2)	OGDPD	percentage of OGD procedures where photo documentation obtained in line with BSG guidance (UO/GOJ/fundus in RF/gastric body/incisura in RF/antrum/bulb/D2)	Numerator: Procedure Name - <i>OGD</i> Procedure photo documentation - <i>Yes</i> Denominator: Procedure Name- <i>OGD</i>	percentage	BSG			>90% aspirational
Prague classification completed for Barretts	OGDBARP	percentage of procedure where Barretts oesophagus detected and Prague classification completed.	Numerator: Procedure name - <i>OGD</i> Diagnosis <i>Barretts oesophagus / Barretts</i> length circumferential >0 and length maximum >0. Denominator: Diagnosis - <i>Barretts oesophagus</i>	percentage	BSG			>90% minimum/100% aspirational

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
Barrett's inspection time	OGDBARIT	Mean Barrett's inspection time where indication is Barrett's surveillance (inspection time- GOJ to extubation during withdrawal/either automatically entered or manually entered).	Procedure Name – <i>OGD</i> Indication – <i>Barrett's oesophagus surveillance</i> Mean Barrett's inspection time	minutes	BSG			
Procedure time	OGDPT	mean procedure time for OGD/'from teeth to teeth'	Procedure Name – <i>OGD</i> mean <i>Procedure time</i>	minutes	BSG			
Mucosal visualisation quality	OGDMVQ	percentage of procedures where mucosal visualisation for OGD is adequate (recorded as satisfactory or excellent)	Numerator: Procedure Name – <i>OGD</i> Mucosal visualisation - satisfactory views obtained or Excellent views of all areas. Denominator: <i>OGD</i> and mucosal visualisation - excellent views of all areas <i>or</i> satisfactory views obtained <i>or</i> poor views of some areas or examination was curtailed	percentage	BSG			75% adequate minimal/100% adequate aspirational
2 biopsy sites in suspected eosinophilic Oesophagitis	OGDOEBX	percentage of patients with suspected eosinophilic oesophagitis (food bolus obstruction or dysphagia and no alternative cause found) in whom biopsies taken in two different regions of oesophagus.	Numerator: Procedure Name – <i>OGD</i> Indication - <i>dysphagia and/or Food bolus obstruction and Biopsies</i> - any 2 of upper oesophagus / middle oesophagus or lower oesophagus. Denominator: Indication - <i>dysphagia and/or Food bolus obstruction</i> Exclusion diagnosis - <i>oesophageal candidiasis/oesophageal stricture-benign/oesophageal stricture-malignant/oesophageal tumour-benign/oesophageal tumour-</i>	percentage	BSG			>90% minimum/100% aspirational

KPI	Abbreviation	Definition	Data fields	Output format	Reference	JAG Audit	JAG Standards	BSG QA standards
			<i>malignant/oesophageal varices/pharyngeal pouch</i>					
Gastric antral and body biopsies in gastric atrophy	OGDGABX	percentage of procedures with a diagnosis of gastric atrophy with biopsies taken from gastric antrum and body	Numerator: Procedure Name – OGD Indication - <i>High Cancer risk surveillance / Gastric atrophy and biopsies - antrum general or lesser curvature/greater curvature/anterior wall or posterior wall and Body general/greater curvature/lesser curvature/anterior wall or posterior wall</i> Denominator: Procedure Name – OGD Indication - <i>High Cancer risk surveillance / Gastric atrophy</i>	percentage	BSG			
Coeliac biopsies from duodenum (>3) and bulb (1)	OGDCDBX	percentage of procedures with suspected coeliac disease with biopsies taken from second part of duodenum and bulb	Numerator: Procedure Name - OGD Indication- <i>Positive TTG / EMA and biopsies - Duodenum 2nd part and Duodenum 1st part</i> Denominator: Indication- <i>Positive TTG / EMA</i>	percentage	BSG			

Colonoscopy

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Procedure count	COLProcNum	Number of diagnostic or therapeutic colonoscopies performed by an endoscopist or site in a stated period of time	Procedure Name - <i>COLON</i>	Integer	per endoscopist/including those directly supervising a trainee within the room	GRS/JETS/NED	JAG- 100/ year		
Caecal intubation rate	COLCIR	Percentage of colonoscopies where caecum or anastomosis reached by a stated endoscopist or at a stated site in a stated period	Numerator: Procedure Name - <i>COLON</i> / Extent Type - <i>Caecum or terminal ileum or anastomosis or ileo-colon anastomosis or neo-terminal ileum</i> Denominator: Procedure Name- <i>COLON</i> Exclusion- exclude procedures where planned extent is <i>not caecum or terminal ileum or neo-terminal ileum or anastomosis</i> .	Percentage	per endoscopist	JETS/NED	Minimum standard 90%/aspirational target 95%	90% unadjusted completion rate	Minimum standard 90%/aspirational target 95%

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Terminal ileum intubation rate	COLTIIR	Percentage of colonoscopies where terminal ileum reached	Numerator: Procedure Name- <i>COLON</i> / Extent Type - terminal ileum or neo-terminal ileum Denominator: Procedure Name- <i>COLON</i> Exclusion- exclude procedures where planned extent is <i>not caecum or terminal ileum or neo-terminal ileum or anastomosis</i>	Percentage	per endoscopist	JETS/Paeds			
Rectal retroversion	COLRRR	Percentage of colonoscopies where rectal retroversion is recorded as having been performed by a stated endoscopist or at a stated site in a stated period	Numerator: Procedure Name- <i>COLON</i> Rectal retroversion - Yes Denominator: Procedure Name- <i>COLON</i>	percentage	per endoscopist	JETS/NED/BSG	Minimum Standard 90% (BSG)		Minimum Standard 90%
Colonoscopy Withdrawal time	COLNCCWT	Mean withdrawal time for all negative/complete colonoscopies performed by a stated endoscopist in a stated period	Numerator: Sum of withdrawal time where no procedure performed and no polyps detected (normal colonoscopy). Denominator: Procedure Name- <i>COLON</i> where no procedure performed and no polyps detected (normal colonoscopy) and Extent Type - <i>Caecum or terminal</i>	minutes	per endoscopist	NED/BSG	Minimum standard – mean of ≥6mins Aspirational target- mean of ≥10 mins (BSG)		Mean of ≥6 mins/Mean of ≥10 minutes

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
			<i>ileum or anastomosis or ileo-colon anastomosis or neo-terminal ileum</i>						
Polyp detection rate	COLPDR	Percentage of colonoscopies performed by a stated endoscopist or at a stated site in a stated period at which one or more polyps were detected	Numerator: Procedure Name- <i>COLON</i> Diagnosis - <i>Polyps</i> Denominator: Procedure Name- <i>COLON</i> Only include complete procedures: Extent Type - <i>Caecum or terminal ileum or anastomosis or ileo-colon anastomosis or neo-terminal ileum</i>	percentage	per endoscopist	NED/BSG			
Polyp retrieval success- percentage	COLPRR	Percentage of polyps successfully retrieved by a stated endoscopist or at a stated site in a stated period.	Numerator: Procedure Name- <i>COLON/</i> Therapeutic Type - <i>polypectomy - successful / retrieval - successful</i> Denominator: Procedure Name- <i>COLON/</i> Therapeutic Type - <i>polypectomy - successful</i>	percentage	per endoscopist	JETS		Polyp recovery >90%	Polyp retrieval rate ≥ 90%

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Median dose of Pethidine <70	COLPLT70	Median dose of pethidine administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>COLON / pethidine - number</i> Conditions: Exclude where <i>pethidine</i> - null age < 70 Exclude values from median calculation out with range <i>12.5-200mg</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Median dose (mg)	per endoscopist	JETS/NED			
Median dose of Pethidine ≥70	COLPGT70	Median dose of pethidine administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>COLON / pethidine - number</i> Conditions: Exclude where <i>pethidine</i> - null age ≥ 70 Exclude values from median calculation out with range <i>12.5-200mg</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Median dose (mg)	per endoscopist	JETS/NED			
Median dose of Midazolam <70	COLMLT70	Median dose of midazolam administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>COLON / midazolam - number</i> Conditions: Exclude where <i>midazolam</i> - null age < 70 Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes Exclude values from median calculation out with range <i>0.5-10mg</i>	Median dose (mg)	per endoscopist	JETS/NED			

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Median dose of Midazolam ≥70	COLMGT70	Median dose of midazolam administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Procedure Name- <i>COLON / midazolam - number</i> Conditions: Exclude where <i>midazolam</i> - null age ≥ 70 Exclude values from median calculation out with range <i>0.5-10mg</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Median dose (mg)	per endoscopist	JETS/NED			
Median dose of Fentanyl <70	COLFLT70	Median dose of fentanyl administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Procedure Name- <i>COLON / fentanyl - number</i> Conditions: Exclude where <i>fentanyl</i> - null age < 70 Exclude values from median calculation out with range <i>12.5-200mcg</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Median dose (mcg)	per endoscopist	JETS/NED			
Median dose of Fentanyl ≥70	COLFGT70	Median dose of fentanyl administered when used for colonoscopy by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Procedure Name- <i>COLON / fentanyl - number</i> Conditions: Exclude where <i>fentanyl</i> - null age ≥ 70 Exclude values from median calculation out with range <i>12.5-200mcg</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Median dose (mcg)	per endoscopist	JETS/NED			

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Unsedated procedures	COLUS	Percentage of colonoscopy performed by a stated endoscopist or at a stated site in a stated period where the no midazolam/fentanyl or pethidine was administered.	Numerator: Procedure Name- <i>COLON / pethidine - null / midazolam - null / fentanyl - null propofol-null/General anaesthetic-null</i> Denominator: Procedure Name- <i>COLON</i> Exclude where <i>Propofol - Yes</i> or <i>General Anaesthetic-Yes</i>	Percentage	per endoscopist	JETS/NED			
Sedation greater than recommended dose	COLGTRD	Percentage of colonoscopy performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70 or the dose of fentanyl exceeded 100 mcg in patients aged <70 and 50mcg in patients aged ≥70 or where the dose of pethidine exceeded 50 mg in patients aged <70 and 25 mg in patients aged ≥70	Procedure Name- <i>COLON</i> Age <70 <i>pethidine >50mg</i> <i>midazolam >5mg</i> <i>fentanyl >100mcg</i> Age ≥70 <i>pethidine >25mg</i> <i>midazolam >2.5mg</i> <i>fentanyl >50mcg</i>	Percentage	per endoscopist	JETS/NED		Auditable outcome	

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Colonoscopy Comfort Score	COLCOM34	Percentage of colonoscopies performed by a stated endoscopist or at a stated site in a stated period where the comfort level is recorded as moderate or severe discomfort.	Procedure Name- <i>COLON</i> Numerator: Discomfort - moderate or severe Denominator: Procedure Name- <i>COLON</i>	Percentage where comfort score is moderate or severe	per endoscopist	JETS/NED			Units should audit comfort and less than 10% of patients should have moderate or severe discomfort.
Bowel preparation quality	COLBPQ	Proportion of colonoscopies where bowel prep poor (Using BBOPS scale)	Procedure Name- <i>COLON</i> Numerator: Number of procedures where <i>Bowel Prep Total < 6</i> or <i>Bowel Prep Total < 4</i> <i>IF Planned Extent - Hepatic Flexure/Transverse/Splenic Flexure</i> or <i>Bowel Prep Total < 2</i> <i>IF Planned Extent - Descending colon/sigmoid or rectum</i> Denominator: Procedure Name- <i>COLON</i>	Percentage where bowel prep was 'Poor' (BBOPS).	For whole service	NED/BSG/JAG/GRS		Good quality bowel prep > 90%	Bowel preparation of at least adequate quality to be achieved in 90% of patients. Aspirational: bowel preparation of at least adequate quality to be achieved in 95% of patients.
Digital Rectal Examination		Percentage of procedures where digital rectal examination is recorded	Numerator: Procedure Name - <i>COLON / Digital rectal examination - Yes</i> Denominator: Procedure Name - <i>COLON</i>	Percentage	per endoscopist	GRS	Rectal examination or omission should be recorded in 100% of cases (BSG)		Rectal examination or omission should be recorded in 100% of cases

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
UCEIS or Mayo score in UC	COLUCScore	Percentage of procedures where diagnosis is UC and a mayo or UCEIS score recorded	Procedure Name- <i>COLON</i> Numerator: <i>UCEIS if Diagnosis - Ulcerative Colitis or Mayo if Diagnosis - Ulcerative Colitis</i> Denominator: <i>Diagnosis - Ulcerative Colitis</i>						
CDEIS score in Crohns	COLSCorE	Percentage of procedures where diagnosis is Crohn's and CDEIS recorded	Procedure Name- <i>COLON</i> Numerator: <i>CDEIS if Diagnosis - Crohns Colitis or Crohn's-terminal ileum</i> Denominator: <i>Diagnosis - Crohns Colitis or Crohn's-terminal ileum</i>						
Rutgeerts score in Crohn's with previous resection	COLCRUT	Percentage of procedures where diagnosis is Crohn's with extent to neo-terminal ileum and Rutgeert's score recorded.	Numerator: Procedure Name- <i>COLON</i> <i>Rutgeerts score recorded if Diagnosis - Crohn's Colitis or Crohn's - terminal ileum and Extent - Neo-terminal ileum</i> Denominator: Procedure Name- <i>COLON</i> <i>Diagnosis - Crohns Colitis or Crohn's-terminal ileum and Extent - Neo-terminal ileum</i>	Percentage					

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Distal Attachment use	COLDA	Proportion of colonoscopies by Distal attachment use	<i>Distal Attachment - x / Distal Attachment - None, distal cuff attachment/cap/other</i>	Percentage by distal attachment lookup option					
CO2 Insufflation	COLCO2	Proportion of colonoscopies by insufflation gas	Procedure Name- <i>COLON Insufflation - x / Insufflation - air/carbon dioxide</i>	Percentage by insufflation lookup					
Proportion by insertion technique	COLINS	Proportion of procedures by insertion technique	Procedure Name- <i>COLON Insertion technique - x / Insertion technique - Gas insufflation/Water assisted technique</i>	Percentage by insertion lookup					

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
AI system use	COLAI	Proportion of Procedures by AI system use	Procedure Name- <i>COLON AI - x/ AI - None</i> /Lesion detection software used/Lesion recognition software used	Percentage by AI Lookup field					
Checklist completion	COLCL	Percentage of procedures where checklist completed	Numerator: Procedure Name- <i>COLON</i> Procedure checklist- <i>Yes</i> Denominator: Procedure Name- <i>COLON</i>	percentage					
Tattoo of Cancers and polyps ≥20mm	COLTATCAP	Proportion of suspected cancers or polyps ≥20mm (not in the caecum or rectum) where a tattoo is placed	Numerator: Procedure Name - <i>COLON polyp ≥ 20mm or cancer and tattoo placed or previous tattoo not in rectum or caecum</i> Denominator: Procedure Name- <i>COLON</i> number of polyps ≥20mm or cancers <i>not in rectum or caecum</i>	percentage	per endoscopist	JAG		100%	

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
Diagnostic biopsies for unexplained diarrhoea	COLRCB	Proportion of procedures where chronic diarrhoea is the indication and a minimum of 2 left colonic and 2 right colonic biopsies are obtained	Numerator: Procedure Name- <i>COLON</i> Biopsy taken Denominator: Procedure Name- <i>COLON</i> / Indications – Diarrhoea - <i>chronic</i>	percentage	per endoscopist	JAG/BSG			100%
Adverse events	COLAEALL	Number of adverse events recorded during or following colonoscopies performed by a stated endoscopist or at a stated site in a stated period	Procedure Name- <i>COLON</i> Adverse event - <i>X</i>			JETS/NED			
Serious complications	COLAESEV	Number of 'severe' adverse events recorded during or following colonoscopies performed by a stated endoscopist or at a stated site in a stated period	Procedure Name- <i>COLON</i> Serious complications - <i>X</i>						
Post colonoscopy colorectal cancer rate	COLICR3 (or5)	Proportion of times outcome of second colonoscopies within 3 or 5 years has an outcome of cancer which wasn't present at the first	Numerator: First colonoscopies - Diagnosis is not <i>oesophageal tumour- malignant or gastric tumour- malignant</i> Second colonoscopies – Diagnosis - <i>oesophageal tumour- malignant or gastric tumour- malignant</i>	percentage		BSG			

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA Standards
			Denominator: Procedure Name- <i>COLON</i>						
Polyp removal rate	COLPRR	Percentage of polyps identified and successfully removed by a stated endoscopist or at a stated site in a stated period.	Numerator: Procedure Name- <i>COLON</i> , Therapeutic Type - polypectomy - successful Denominator: Procedure Name- <i>COLON</i>	percentage		JETS			
Polyp removal success <1cm	COLPRSLT10	Percentage of polyps less than 1cm in size successfully removed by a stated endoscopist or at a stated site in a stated period.	Numerator: Procedure Name- <i>COLON</i> , Therapeutic Type - polypectomy - successful, <i>polyp Size <10mm</i> Denominator: Procedure Name- <i>COLON</i>	Percentage		JETS			

Flexible Sigmoidoscopy

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Procedure count	FSPNum	Number of diagnostic or therapeutic flexible sigmoidoscopies performed by an endoscopist or site in a stated period of time	Procedure Name- <i>FLEXI</i>	integer	per endoscopist/	JAG/GRS/			
Rectal retroversion	FSRRR	Percentage of flexible sigmoidoscopy where rectal retroversion is recorded as having been performed by a stated endoscopist or at a stated site in a stated period	Numerator: Procedure Name- <i>FLEXI</i> Rectal retroversion - Yes Denominator: Procedure Name- <i>FLEXI</i>	Percentage	per endoscopist	JAG/GRS/	BSG 100%/JAG 90%	90%	100%
Digital Rectal Examination		Percentage of procedures where digital rectal examination is recorded	Numerator: Procedure Name- <i>Flexi</i> Digital Rectal Examination - Yes Denominator: Procedure Name- <i>FLEXI</i>	Percentage	per endoscopist	GRS	Rectal examination or omission should be recorded in 100% of cases (BSG)		Rectal examination or omission should be recorded in 100% of cases
Polyp detection rate	FSPDR	Percentage of colonoscopies performed by a stated endoscopist or at a stated site in a stated period at which one or more polyps were detected	Numerator: Procedure Name- <i>FLEXI</i> Diagnosis – <i>Polyps</i> Denominator: Procedure Name- <i>FLEXI</i>	percentage	per endoscopist	NED/BSG		for info only	
Polyp retrieval success - percentage	FSPRR	Percentage of polyps successfully removed and retrieved by a stated endoscopist or at a stated site in a stated period.	Numerator: Procedure Name - <i>FLEXI</i> Therapeutic Type - <i>polypectomy - successful / retrieval - successful</i> Denominator: Procedure Name - <i>FLEXI</i> , Therapeutic Type - <i>polypectomy - successful</i>	percentage	per endoscopist	JAG/BSG	BSG 90%		90%

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Median dose of Pethidine <70	FSPLT70	Average dose of pethidine administered when used for flexible sigmoidoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>FLEXI</i> / Pethidine - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> <i>colonoscopy</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - Yes age < 70		per endoscopist		≤ 50mg Pethidine		
Median dose of Pethidine ≥ 70	FSPGT70	Average dose of pethidine administered when used for flexible sigmoidoscopy By a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>FLEXI</i> / Pethidine - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> - Yes age ≥ 70		per endoscopist		≤ 25 mg Pethidine		
Median dose of Midazolam <70	FSMLT70	Average dose of midazolam administered when used for flexible sigmoidoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>FLEXI</i> Midazolam - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70		per endoscopist		≤ 5mg Midazolam		

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Median dose of Midazolam ≥ 70	FSMGT70	Average dose of midazolam administered when used for flexible sigmoidoscopy	Numerator: Procedure Name- <i>FLEXI</i> / <i>midazolam</i> - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70		per endoscopist		≤ 2 mg Midazolam		
Median dose of Fentanyl < 70	FSFLT70	by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>FLEXI</i> / <i>Fentanyl</i> - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70		per endoscopist		(≤ 100 mcg Fentanyl)		
Median dose of Fentanyl ≥ 70	FSFGT70	Average dose of fentanyl administered when used for flexible sigmoidoscopy by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>FLEXI</i> / <i>Fentanyl</i> - <i>number</i> Denominator: Procedure Name- <i>FLEXI</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70		per endoscopist		(≤ 50 mcg Fentanyl)		

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Unsedated procedures	FSUS	Percentage of FS performed by a stated endoscopist or at a stated site in a stated period where the no midazolam/fentanyl or pethidine was administered.	Numerator: Procedure Name- <i>Flexi pethidine</i> - null <i>midazolam</i> - null <i>fentanyl</i> - null Denominator: Procedure Name- <i>Flexi</i> Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	Percentage	per endoscopist	JETS/NED			
Sedation greater than recommended dose	FSGTRD	Percentage of flexible sigmoidoscopy performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70 or the dose of fentanyl exceeded 100 mcg in patients aged <70 and 50mcg in patients aged ≥70 or where the dose of pethidine exceeded 50 mg in patients aged <70 and 25 mg in patients aged ≥70	Procedure Name- <i>Flexi</i> Age <70 <i>pethidine</i> >50mg <i>midazolam</i> >5mg <i>fentanyl</i> >100mcg Age ≥70 <i>pethidine</i> >25mg <i>midazolam</i> >2.5mg <i>fentanyl</i> >50mcg	percentage	per endoscopist		JAG 0	0	
Comfort Score	FSCOM34	Percentage of flexible sigmoidoscopy performed by a stated endoscopist or at a stated site in a stated period where the comfort level is recorded as moderate or severe discomfort	Numerator: Procedure Name- <i>FLEXI</i> Discomfort - moderate or severe Denominator: Procedure Name- <i>FLEXI</i>	Percentage where comfort score is moderate or severe	per endoscopist			JAG <10% moderate or severe discomfort	Units should audit comfort and less than 10% of patients should have moderate or severe discomfort.

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Bowel preparation quality	FSPBQ	Percentage of FS where bowel prep poor (Using BBOPS scale)	Numerator: Procedure Name - FLEXI Number of procedures where Proc Bowel Prep Total < 2 Denominator: Procedure Name - FLEXI Exclude procedure if Bowel Prep Total >3	Percentage where total score is 0-1 for a FS	For whole service	NED/BSG/JAG/GRS		90%	Bowel preparation of at least adequate quality to be achieved in 90% of patients. Aspirational: bowel preparation of at least adequate quality to be achieved in 95% of patients.
Descending colon intubation rate	FSDCIR	Percentage of flexible sigmoidoscopies where descending colon or anastomosis reached by a stated endoscopist or at a stated site in a stated period	Numerator: Procedure Name- FLEXI Extent Type - <i>Descending colon or transverse colon or ascending colon or caecum anastomosis or ileo-colon anastomosis or neo-terminal ileum</i> Denominator: Procedure Name- FLEXI	Percentage	per endoscopist			For info only	
Splenic flexure intubation rate	FSSFIP	Percentage of flexible sigmoidoscopies where splenic flexure or anastomosis reached by a stated endoscopist or at a stated site in a stated period	Numerator: Procedure Name- FLEXI Extent Type - <i>Splenic Flexure or transverse colon or ascending colon or caecum anastomosis or ileo-colon anastomosis or neo-terminal ileum</i> Denominator: Procedure Name- FLEXI		per endoscopist			for info only	
Tattoo of Cancers and polyps ≥20mm	FSTATCAP	Proportion of suspected cancers or polyps ≥20mm (not in the caecum or rectum) where a tattoo is placed	Numerator: Procedure Name - FLEXI Polyp ≥ 20mm or Diagnosis - <i>Colorectal cancer and tattoo placed or previous tattoo not in rectum or caecum</i> Denominator: number of polyps ≥20mm or cancers not in rectum or caecum	percentage	per endoscopist	JAG		100%	

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	Reference	Targets	JAG Standards	BSG QA standards
Checklist completion	FSCL	Percentage of FS where checklist completed	Procedure Name- <i>FLEXI</i> Numerator: Procedure checklist- Yes Denominator: Procedure Name- <i>FLEXI</i>	percentage					

ERCP

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Procedure count	ERCPProcNum	Number of diagnostic or therapeutic ERCP performed by an endoscopist or site in a stated period of time	Procedure Name - <i>ERCP</i>	integer		min 75 asp 100/for whole service min 150/asp 200
Median dose (age <70) Midazolam	ERCPMLT70	Median dose of midazolam administered when used for ERCP by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>ERCP midazolam - number</i> Denominator: Procedure Name- <i>ERCP</i> Conditions: Exclude where midazolam - null Exclude where <i>Propofol -Yes</i> or <i>General Anaesthetic-Yes</i> age < 70	integer		≤ 5mg Midazolam
Median dose (age ≥70) Midazolam	ERCPMGT70	Median dose of midazolam administered when used for ERCP by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>ERCP midazolam - number</i> Denominator: Procedure Name- <i>ERCP</i> Conditions: Exclude where midazolam - null Exclude where <i>Propofol -Yes</i> or <i>General Anaesthetic-Yes</i> age ≥ 70	integer		≤ 2 mg Midazolam
Median dose (age <70) Pethidine	ERCPPLT70	Median dose of pethidine administered when used for ERCP by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name - <i>ERCP Pethidine – number</i> Denominator: Procedure Name- <i>ERCP</i> Conditions: Exclude where <i>pethidine - null</i>	integer		≤ 50mg Pethidine

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
			Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - Yes age < 70			
Median dose (age ≥70) Pethidine	ERCPGT70	Median dose of pethidine administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>ERCP Pethidine</i> - number Denominator: Procedure Name- <i>ERCP</i> Conditions: Exclude where pethidine - null age ≥ 70 Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes	integer		≤ 25 mg Pethidine
Median dose (age <70) Fentanyl	ERCPFLT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>ERCP Fentanyl</i> - number Denominator: Procedure Name- <i>ERCP</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer		≤100mcg Fentanyl
Median dose (age ≥70) Fentanyl	ERCPGT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name - <i>ERCP Fentanyl</i> - number Denominator: Procedure Name - <i>ERCP</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	integer		≤ 50 mcg Fentanyl

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Greater than recommended dose	ERCPGTRD	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70	Procedure Name- <i>ERCP</i> Age <70 <i>midazolam</i> >5mg Procedure Name- <i>ERCP</i> Age <70 <i>midazolam</i> >5mg Age ≥70 <i>midazolam</i> >2.5mg	Percentage		
Comfort Score	ERPCOM34	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the comfort level is recorded as moderate or severe discomfort.	Procedure Name- <i>ERCP</i> Numerator: Discomfort - moderate or severe Denominator: Procedure Name- <i>ERCP</i>	Percentage		
Extraction of stones >10mm in size	ERCPSTEX10	Percentage of ERCP procedures where stone (s) >10mm successfully cleared	Procedure Name - <i>ERCP</i> Numerator: Size of largest stone visualised >9mm and Complete stone clearance - Yes Denominator: Size of largest stone visualised >9mm	Percentage		
Successful cannulation (of clinically relevant duct) in first ever ERCP.	ERCPSC	Percentage of ERCP procedures where Successful cannulation of clinically relevant duct achieved at patient's first ever ERCP (exclude those with previous Bilroth 2 / Roux-en-Y)	Procedure Name- <i>ERCP</i> Numerator: Successful cannulation – yes native papilla – yes Previous surgery (ERCP) - no. Denominator: Procedure Name- <i>ERCP</i> native papilla – yes Previous surgery (ERCP) - no	Percentage		min >85%/asp >90%

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
CBD stone clearance at first ERCP.	ERCPCL	Percentage of ERCP procedures where CBD stone clearance at patient's first ever ERCP achieved (exclude those with previous Bilroth 2 / Roux-en-Y)	Procedure Name- <i>ERCP</i> Numerator: Complete Stone Clearance - yes native papilla - yes Previous surgery (ERCP) – no. Denominator- Procedure Name- <i>ERCP</i> Complete Stone Clearance - yes or No native papilla - yes Previous surgery (ERCP) - no	Percentage		min >75%/asp>80%
Extra-hepatic stricture cytology/histology and stent placement at first ERCP	ERCPSTR	Percentage of procedures where Extra-hepatic stricture detected and cytology/histology and stent placement at patient's first ever ERCP (exclude those with previous Bilroth 2 / Roux-en-Y)	Procedure Name- <i>ERCP</i> Numerator: Extra-hepatic Stricture - yes Extra-hepatic Stricture cytology/histology taken – Yes Extra-hepatic Stricture stent successfully placed - yes native papilla - yes Previous surgery (ERCP) – no Denominator- Extra-hepatic Stricture - yes native papilla - yes Previous surgery (ERCP) - no	Percentage		min >80%/asp85%
Prophylactic rectal NSAID use	ERCPRNS	Percentage of ERCP procedures where prophylactic rectal NSAID administered	Procedure Name- <i>ERCP</i> Numerator: ERCP Prophylactic rectal NSAIDS - yes Denominator Procedure Name- <i>ERCP</i>	Percentage		
Checklist completion	ERCPCC	Percentage of ERCP procedures where checklist is completed prior to procedure	Procedure Name- <i>ERCP</i> Numerator: <i>Procedure checklist</i> - Yes Denominator: Procedure Name- <i>ERCP</i>	Percentage		

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Proportion with GA or propofol	ERCPGAPR	Percentage of ERCP procedures performed with GA or propofol	Procedure Name- <i>ERCP</i> Numerator: <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - yes Denominator: Procedure Name- ERCP	integer		

EUS

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Procedure Count	EUSProcNum	Number of diagnostic or therapeutic EUS performed by an endoscopist or site in a stated period of time.	Procedure Name- EUS	integer	per endoscopist/including those directly supervising a trainee within the room. Also present for whole service.	min 75 asp 100/for whole service min 150/asp 200
Median dose (age <70) Midazolam	EUSMLT70	Median dose of midazolam administered when used for EUS by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>EUS</i> <i>Midazolam - number</i> Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	≤ 5mg Midazolam
Median dose (age ≥70) Midazolam	EUSMGT70	Median dose of midazolam administered when used for EUS by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>EUS</i> <i>Midazolam - number</i> Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - Yes age ≥ 70	integer	per endoscopist	≤ 2 mg Midazolam

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Median dose (age <70) Pethidine	EUSPLT70	Median dose of pethidine administered when used for EUS by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>EUS Pethidine - number</i> Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	≤ 50mg Pethidine
Median dose (age ≥70) Pethidine	EUSPGT70	Median dose of pethidine administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>EUS Pethidine - number</i> Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	integer	per endoscopist	≤ 25 mg Pethidine
Median dose (age <70) Fentanyl	EUSFLT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>EUS Fentanyl - number</i> Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	(≤100mcg Fentanyl)

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Median dose (age ≥70) Fentanyl	EUSGT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>EUS Fentanyl</i> - number Denominator: Procedure Name- <i>EUS</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	integer	per endoscopist	(≤ 50 mcg Fentanyl)
Greater than recommended dose	EUSGTRD	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70	Procedure Name- <i>EUS</i> Age <70 <i>midazolam</i> >5mg Procedure Name- <i>EUS</i> Age <70 <i>midazolam</i> >5mg Age ≥70 <i>midazolam</i> >2.5mg	Percentage	per endoscopist	
Comfort Score	EUSCOM34	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the comfort level is recorded as moderate or severe discomfort.	Numerator: Procedure Name- <i>EUS Discomfort</i> - moderate or severe Denominator: Procedure Name- <i>EUS</i>	Percentage	per endoscopist	
Unsedated procedures	EUSUS	Percentage of EUS performed by a stated endoscopist or at a stated site in a stated period where the no midazolam/fentanyl or pethidine was administered.	Numerator: Procedure Name- <i>EUS Pethidine</i> - null / <i>Midazolam</i> - null / <i>Mentanyl</i> - null Denominator: Procedure Name- <i>EUS</i>	Percentage	per endoscopist	

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Prophylactic antibiotics before puncture of cystic lesion	EUSPRABCY	Percentage of EUS procedures where Prophylactic antibiotics administered before EUS guided puncture of cystic lesions	Numerator: Procedure Name- <i>EUS</i> Prophylactic antibiotics (EUS) - yes. Denominator: Procedure Name- <i>EUS</i> and Prophylactic antibiotics (EUS) - yes or No	Percentage	per endoscopist	min 90%/asp 95%
Successful acquisition of tissue (FNA or FNB) from solid lesions	EUSTISACQ	Percentage of EUS procedures where diagnostic tissue sample in EUS FNA or FNB (fine needle biopsy) of solid lesions obtained	Numerator: Procedure Name- <i>EUS</i> EUS FNA or FNB of solid lesions - yes Denominator Procedure Name- <i>EUS</i> and EUS FNA or FNB of solid lesions - yes or no	Percentage	per endoscopist	min 85%/asp 90%
Tissue adequacy of EUS FNA/B (not mandatory)	EUSTISAD	Percentage of EUS procedures where diagnostic tissue sample in EUS FNA or FNB (fine needle biopsy) of solid lesions adequate	Numerator: Procedure Name- <i>EUS</i> Tissue adequacy of EUS FNA/FNB - yes Denominator Procedure Name- <i>EUS</i> and Tissue adequacy of EUS FNA/FNB - yes or no	Percentage		
Checklist completion	EUSCC	Percentage of EUS procedures where checklist completed before procedure	Numerator: Procedure Name- <i>EUS</i> Procedure checklist- Yes Denominator: Procedure Name- <i>EUS</i>	Percentage		
Proportion with GA or propofol	EUSGAPR	Percentage of EUS procedures performed with GA or propofol	Numerator: Procedure Name- <i>EUS</i> <i>Propofol</i> - Yes or <i>General Anaesthetic</i> - yes Denominator: Procedure Name- <i>EUS</i>	integer		

ENT

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Number	ENTProcNum	Number of diagnostic or therapeutic ENT performed by an endoscopist or site in a stated period of time	Procedure Name- <i>ENT</i>	integer	per endoscopist/including those directly supervising a trainee within the room. Also present for whole service.	min 75 asp 100/for whole service min 150/asp 200
Median dose (age <70) Midazolam	ENTMLT70	Median dose of midazolam administered when used for ENT by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>ENT / midazolam - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	≤ 5mg Midazolam
Median dose (age ≥70) Midazolam	ENTMGT70	Median dose of midazolam administered when used for ENT by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>ENT Midazolam - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>midazolam</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaestheti</i> c- Yes age ≥ 70	integer	per endoscopist	≤ 2 mg Midazolam

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Median dose (age <70) Pethidine	ENTPLT70	Median dose of pethidine administered when used for ENT by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>ENT Pethidine - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	≤ 50mg Pethidine
Median dose (age ≥70) Pethidine	ENTPGT70	Median dose of pethidine administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>ENT Pethidine - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>pethidine</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> - Yes age ≥ 70	integer	per endoscopist	≤ 25 mg Pethidine
Median dose (age <70) Fentanyl	ENTFLT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients less than 70 years of age.	Numerator: Procedure Name- <i>ENT Fentanyl - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age < 70	integer	per endoscopist	(≤100mcg Fentanyl)

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Median dose (age ≥70) Fentanyl	ENTGT70	Median dose of fentanyl administered when used for OGD by a stated endoscopist or at a stated site in a stated period in patients 70 years of age or older.	Numerator: Procedure Name- <i>ENT Fentanyl - number</i> Denominator: Procedure Name- <i>ENT</i> Conditions: Exclude where <i>fentanyl</i> - null Exclude where <i>Propofol</i> -Yes or <i>General Anaesthetic</i> -Yes age ≥ 70	integer	per endoscopist	(≤ 50 mcg Fentanyl)
Proportion with GA or propofol	ENTGAPR	Percentage of Enteroscopy procedures performed with GA or propofol	Numerator: Procedure Name- <i>ENT Propofol - Yes or General Anaesthetic- yes</i> Denominator: Procedure Name- <i>ENT</i>	integer		
Greater than recommended dose	ENTGTRD	Percentage of OGD performed by a stated endoscopist or at a stated site in a stated period where the dose of midazolam exceeded 5mg in patients aged <70 and 2.5mg in patients aged ≥70	Procedure Name- <i>ENT</i> Age <70 <i>midazolam</i> >5mg Procedure Name- <i>ENT</i> Age <70 <i>midazolam</i> >5mg Age ≥70 <i>midazolam</i> >2.5mg	integer	per endoscopist	
Checklist completion	ENTCC	Percentage of ENT procedures where checklist completed before procedure	Numerator: Procedure Name- <i>ENT Procedure checklist- Yes</i> Denominator: Procedure Name- <i>ENT</i>	integer		

KPI	Abbreviation	Definition	Data fields	Output format	JAG Audit	JAG Standards
Proportion by technique	ENTTECH	Percentage of procedure by technique	Table of number of procedures by technique - Push - Single balloon oral - Double balloon oral - Spiral - Single balloon oral - Single balloon anal - Other	integer	put in KPI activity/ demographic tab	
Maximum depth of insertion recorded	ENTMAXD	Percentage of procedures where maximum depth of insertion recorded	Numerator: Procedure Name- <i>ENT Depth of insertion</i> - number. Denominator: Procedure Name - <i>ENT</i>	integer		
Tattoo placed at maximum depth of insertion	ENTTAT	Percentage of procedures where tattoo placed at maximum depth of insertion.	Numerator: Procedure Name- <i>ENT Tattoo max depth of insertion</i> - yes Denominator: Procedure Name- <i>ENT Tattoo max depth of insertion</i> - yes or no Exclude if <i>tattoo max depth of insertion</i> - not applicable	integer		