Appendix

- 1. Direct Observation of Procedural Skills Formative Assessment Form
- 2. Physician characteristics associated with proximal adenoma detection
- 3. Physician characteristics associated with distal adenoma detection
- 4. Physician characteristics associated with distal SSL detection

Formative DOPS Assessment Form

Colonoscopy and Flexible Sigmoidoscopy

Adapted from Joint Advisory Group on GI Endoscopy



Colonoscopist	Scale a	nd Criteria Key		
	4 Highly skilled performance 3 Competent and safe throughout procedure, no			
Trainer / Peer	2	uncorrected errors		
Trainer / Feet		Some standar improved, sor	ds not yet met, aspects to be ne errors uncorrected	
D-1- 7DD (MM 02020	1	Accepted stan	idards not yet met, frequent errors	
Date (DD/MM/YYYY)	n/a	Not applicable	9	
	=	Major Criteria	Minor Criteria	
Criteria		Scale	Comments	
Assessment, consent, communication		2		
 Obtains informed consent using a structured approach 				
o Satisfactory procedural information o Risk and complications explained				
o Co-morbidity				
o Sedation				
o Opportunity for questions	Martin Contractory of the			
 Demonstrates respect for patient's views and dignity during the presence of the patient of the pat	rocedure			
 Communicates clearly with patient, including outcome of procedur appropriate management and follow up plan. Full endoscopy reporting the processing of the proces				
Safety and sedation				
Safe and secure IV access				
 Gives appropriate dose of analgesia and sedation and ensures ad oxygenation and monitoring of patient 	equate			
 Demonstrates good communication with the nursing staff, includidosages and vital signs 	ng			
Endoscopic skills during insertion and procedure				
Checks endoscope function before intubation				
Performs PR				
 Maintains luminal view / inserts in luminal direction 				
 Demonstrates awareness of patient's consciousness and pain dur procedure and takes appropriate action 	ing the		-	
Uses torque steering and control knobs appropriately				
Uses distension, suction and lens washing appropriately				
 Recognises and logically resolves loop formation 			-	
 Uses position change and abdominal pressure to aid luminal view 	s			
 Completes procedure in reasonable time 				
Diagnostic and therapeutic ability				
Adequate mucosal visualisation				
 Recognises caecal/desc. colon landmarks or incomplete examinat 	ion		-	
 Accurate identification and management of pathology 			-	
· · ·				
 Uses diathermy and therapeutic techniques appropriately and safe 	elv			

Recognises and manages complications appropriately

Learning Objectives for Next Cases

Case Difficulty

Extremely	Fairly	Average	Fairly	Very
easy	easy		difficult	challenging
1	2	3	4	5

Physician characteristics associated with proximal adenoma detection

Variable	OR*	95%CI*	p-value
Male Physician	1.06	0.93-1.20	0.377
Specialty Training			
Gastroenterology	Reference		
General surgery	0.92	0.83-1.02	0.128
Internal medicine	0.76	0.55-1.04	0.084
Year of Medicine Graduation			
< 1980	Reference		
1980 - 1990	1.11	0.93-1.32	0.245
1990 - 2000	1.20	1.02-1.42	0.027
After 2000	1.07	0.91-1.26	0.430
North American Medical School	0.99	0.85-1.15	0.898
Colonoscopy Volume	1.00	0.94-1.07	0.929
DOPS			
Achieved 3 or 4 on all major criteria	Reference		
Achieved a 2 on any major criteria	1.02	0.91-1.15	0.731
Achieved a 1 on any major criteria	0.82	0.61-1.12	0.214
No DOPS	1.00	0.88-1.14	0.978
Patient Age	1.18	1.16-1.19	<0.001
Patient Male Gender	1.52	1.47-1.57	<0.001
First FIT	1.37	1.34-1.39	<0.001
FIT Value			
FIT 10-15 mcg/gram	Reference		
FIT 15-20 mcg/gram	1.25	1.19-1.31	<0.001
FIT 20-40 mcg/gram	1.40	1.34-1.46	<0.001
$FIT \ge 40 \text{ mcg/gram}$	1.69	1.63-1.76	<0.001

*OR = Odds Ratio

*CI = Confidence Interval

Physician characteristics associated with distal adenoma detection

Variable	OR	95%CI*	p-value
Male Physician	1.07	0.93-1.24	0.360
Specialty Training			
Gastroenterology	Reference		
General surgery	0.92	0.82-1.04	0.209
Internal/family medicine	0.70	0.50-0.99	0.042
Year of Medicine Graduation			
< 1980	Reference		
1980 - 1990	1.02	0.84-1.24	0.846
1990 - 2000	1.11	0.92 - 1.34	0.267
After 2000	0.95	0.79 - 1.15	0.612
North American Medical School	0.95	0.80 - 1.12	0.535
Colonoscopy Volume	1.03	0.96 - 1.11	0.402
DOPS			
Achieved 3 or 4 on all major criteria	Reference		
Achieved a 2 on any major criteria	1.03	0.90 - 1.18	0.666
Achieved a 1 on any major criteria	0.85	0.60 - 1.20	0.347
No DOPS	0.97	0.83 - 1.12	0.657
Patient Age	1.20	1.18 - 1.21	<0.001
Patient Male Gender	1.57	1.52 - 1.62	<0.001
First FIT	1.40	1.38-1.42	<0.001
FIT Value			
FIT 10-15 mcg/gram	Reference		
FIT 15-20 mcg/gram	1.23	1.18 - 1.29	<0.001
FIT 20-40 mcg/gram	1.36	1.31 - 1.42	<0.001
$FIT \ge 40 \text{ mcg/gram}$	1.63	1.57 – 1.69	<0.001

*OR = Odds Ratio

*CI = Confidence Interval

Physician characteristics associated with distal SSL detection

Variable	OR*	95%CI*	p-value
Male Physician	0.96	0.79 - 1.16	0.646
Specialty Training			
Gastroenterology	Reference		
General surgery	0.90	0.78 - 1.04	0.155
Internal/family medicine	0.56	0.31 - 1.00	0.050
Year of Medicine Graduation			
< 1980	Reference		
1980 - 1990	0.90	0.70 - 1.17	0.449
1990 - 2000	1.04	0.81 - 1.32	0.767
After 2000	0.92	0.72 - 1.18	0.524
North American Medical School	0.98	0.78 - 1.24	0.882
Colonoscopy Volume	1.00	0.93 - 1.08	0.931
DOPS			
Achieved 3 or 4 on all major criteria	Reference		
Achieved a 2 on any major criteria	1.00	0.85 - 1.18	0.969
Achieved a 1 on any major criteria	0.66	0.36-1.20	0.170
No DOPS	1.11	0.92-1.34	0.268
Advanced adenoma	1.81	1.56-2.09	<0.001
Patient Age	1.10	1.03 - 1.17	0.005
Male Patient	1.43	1.25 - 1.63	<0.001
First FIT	1.27	1.15-1.38	<0.001
FIT Value			
FIT 10-15 mcg/gram	Reference		
FIT 15-20 mcg/gram	1.29	1.06 - 1.56	0.012
FIT 20-40 mcg/gram	1.29	1.08 - 1.55	0.006
$FIT \ge 40 \text{ mcg/gram}$	1.49	1.27 - 1.74	<0.001

*OR = Odds Ratio

*CI = Confidence Interval