## **CLARITY Case Report Form**

Pati	ient characteristics data collection form	Required data (definition / comment)	Suggested source(s) / field notes
Characteristics (includes a check the patient is eligible)			
1.	Patient age	Years (whole years at the time of assessment / admission)	If this is entered outside 16-40     REDCap brings up a not eligible     message     Clinical letters / notes
2.	Patient sex at birth	Male / Female	– Clinical letters / notes
3.	Is the patient pregnant? (for females only)	Yes / No	If this does not match eligibility criteria, REDCap brings up a not eligible message
4.	Patient height and weight to calculate	Height (in centimetres)	– Drug charts
	body mass index (BMI)	Weight (in kilograms)	– Clinical letters / notes
5.	Smoking status	Current, Previous (stopped smoking <6 weeks), Previous (stopped smoking 6 weeks – 1 year), Previous (stopped smoking >1 year), Never smoked	
6.	Clinical Frailty scale	1-3 / 4-6 / 7-9 (Full Clinical frailty scale available at: <a href="https://www.dal.ca/sites/qmr/our-tools/clinical-frailty-scale.html">https://www.dal.ca/sites/qmr/our-tools/clinical-frailty-scale.html</a> )	
7.	WHO performance status	<ul> <li>0 - Asymptomatic (Fully active, able to carry on all predisease activities without restriction)</li> <li>1 - Symptomatic but completely ambulatory (Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature. For example, light housework, office work)</li> <li>2 - Symptomatic, &lt;50% in bed during the day (Ambulatory and capable of all self care but unable to carry out any work activities. Up and about more than 50% of waking hours)</li> <li>3 - Symptomatic, &gt;50% in bed, but not bedbound (Capable of only limited self-care, confined to bed or chair 50% or more of waking hours)</li> <li>4 - Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair</li> </ul>	<ul><li>Admissions clerking</li><li>Clinical notes</li></ul>
8.	Previous abdominal surgery	No / Yes - any open surgery / Yes - laparoscopic or robotic surgery only	
9.	Long-term health conditions	Tick all which apply None Previous myocardial infarction Ischaemic heart disease Peripheral vascular disease Congestive cardiac failure (NYHA I / II / III / IV) Cerebrovascular disease Dementia Previous TIA / stroke COPD	<ul> <li>Admissions clerking</li> <li>Clinical notes</li> <li>Anaesthetic notes</li> <li>Outpatient letters</li> </ul>

	Peptic ulcer disease	
	HIV/AIDS	
	Diabetes Mellitus	
	Mild liver disease	
	Moderate / severe liver disease (cirrhosis)	
	Cancer without metastases	
	Lymphoma / leukaemia	
	Rheumatologic disease	
	Inflammatory Bowel Disease	
	Metastatic cancer	
	Chronic Kidney Disease	
	Venous thromboembolism	
10. If the patient has cardiac failure, what is the NYHA classification?	I / II / III / IV (available at https://www.heartonline.org.au/media/DRL/New_York_Heart_Association_(NYHA)_classification.pdf)	These fields only appear if long term health conditions ticked above  – Admission clerking
11. Stage of chronic kidney disease	I/II/IIIA/IIIB/IV/V	Clinical notes
12. History of diabetes mellitus	Yes - Type I / Yes - Type II (diet controlled, tablet controlled, insulin controlled)	– Anaesthetic notes
13. Active cancer and/or cancer treatment	No / Yes - curative intent / Yes - palliative intent / Yes - end of life	– Outpatient letters

Abbreviations: BMI - Body Mass Index; TIA - Transient Ischaemic Attack; COPD - Chronic Obstructive Pulmonary Disease; HIV/AIDS - Human Immunodeficiency Virus / Acquired Immunodeficiency Syndrome; NYHA - New York Heart Association; RIF - Right Iliac Fossa; WHO - World Health Organisation.

	Initial investigations and treatment				
14.	Source of presentation	Emergency Department / GP / GP out of hours or urgent care centre / referred from another inpatient speciality / referred from another hospital / self-attender / other (specify)	_		
15.	Time of first symptom onset	Date time field (with field validation)			
16.	Time of presentation at hospital for assessment or referral	Date time field (with field validation)			
17.	Has the patient attended previously with RIF pain over the last 24 months?	Yes / No	Admission clerking     Clinical notes     Laboratory / radiology systen     Observations chart	Admission clerking	
18.	Did the patient have any of the following investigations performed prior to assessment / admission to the surgical team for the same symptoms?	No pre-assessment or pre-admission imaging / CT / USS abdomen / USS transvaginal / MRI (when done and what did these show)		Laboratory / radiology systems	
1	Date of imaging appears if scan selected	Date time field (with field validation)			
<b>20</b> . Only	Imaging findings appears if scan selected	No abnormality / Appendicitis - simple without faecolith / Appendicitis - simple with faecolith / Appendicitis - complex localised / Appendicitis - complex diffuse / List of other common diagnoses			

21.	Clinical symptoms	Nausea / Vomiting / Anorexia / Loose stools / RIF pain / Migration to RIF pain (tick all that apply)	
	RIF tenderness on examination	Yes / No	
23.	Clinical examination Only appears if there is rebound tenderness or quarding	No tenderness / Tender but no guarding / Localised guarding / Generalised guarding / Rebound tenderness / Rovsing's +ve (tick all that apply)	
24.	Rebound tenderness or guarding severity	None / Mild / Moderate / Severe	
	Highest recorded temperature on presentation	Enter value (degrees celsius)	
26.	Was a urine dip performed and documented?	No - not performed / Yes - Normal urine dip / Yes (specify findings, including HCG)	
27.	Blood tests on presentation	White cell count / Neutrophil count / CRP – enter values (with field validation)	
		Assessment, imaging and pathway data	
28.	When was the patient first assessed or reviewed by the emergency surgical team?	Date time field (with field validation)	
29.	Grade of surgical team members conducting pre-admission assessment?	Foundation Doctor, Core Trainee, Fellow / staff grade (junior), Speciality registrar (ST3+), Fellow / staff grade (senior), Post-CCT fellow, Consultant, ANP, Physicians Associate, Other	
30.	Was appendicitis risk scoring performed?	No / Yes (AIRS/AAS/Alvarado/Other (specify score if used))	
31.	Result of risk scoring	For AIRS/AAS/Alvarado enter number / Other score: Low-risk, Moderate-risk, High-risk	
32.	What investigations were requested as a result of this assessment or review?	None / Blood tests / Urine dip / USS / Standard CT scan without IV contrast/ Standard CT scan with IV contrast/ Low dose CT scan with IV contrast / MRI / Other (specify)	
33.	If imaging was requested, was this discussed with radiology?	Not discussed and request rejected / Not discussed but scan done / Discussed and request rejected / Discussed and scan done	<ul><li>Admission clerking</li><li>Clinical notes</li></ul>
34.	Was the indication for imaging clearly stated on the request with a differential diagnosis and why the imaging would change management	No – no differential diagnosis or explanation as to how would change management Yes - differential diagnosis stated but no explanation as to how would change management Yes - how would change management stated but no mention of differential diagnosis Yes – differential diagnosis stated with explanation as to how would change management	<ul> <li>Laboratory / radiology systems</li> </ul>
	Time and date patient received USS appears if scan selected	Date time field (with field validation)	
	Time and date patient received CT scan appears if scan selected	Date time field (with field validation)	
	Time and date patient received MRI scan appears if scan selected	Date time field (with field validation)	
	Imaging findings appears if scan selected	No abnormality / Appendicitis - simple without faecolith / Appendicitis - simple with faecolith / Appendicitis - complex localised / Appendicitis - complex diffuse / List of other common diagnoses	

<b>39. Reporter</b> Radiology trainee ST2-3 /Radiology trainee ST4-5 / SPR (unknown grade)/Consultant (internal)/ Consultant (external)
40. Date of initial decision by surgical team Date time field (with field validation)
Admit under surgery - suspected appendicitis – operative management / Admit under surgery - suspected appendicitis – radiological drainage / Admit under surgery – suspected appendicitis - non-operative management / Admit under surgery – alternative diagnosis / Refer to other speciality / Outpatient or ambulatory investigation / Discharge to community - no follow-up
42. Were antibiotics commenced?  No - not indicated / Yes oral - already taking antibiotics (time and date first dose) / Yes IV - already taking antibiotics (time and date first dose) / Yes - started oral antibiotics (time and date first dose) / Yes - started IV antibiotics (time and date first dose)

**Abbreviations**: GP - General Practitioner; RIF - Right Iliac Fossa; HCG - Human Chorionic Gonadotropin; AIRS - Appendicitis Inflammatory Response Score; AAS - Adult Appendicitis Score; USS - Ultrasound Scan; CT - Computed Tomography; CRP - C Reactive Protein; ANP - Advanced Nurse Practitioner; CCT - Certificate of Completion of Training; ST - Speciality Trainee; IV - Intravenous

	CLARITY intervention details These fields are only seen by the intervention sites				
43.	Was appendicitis risk scoring documented using the CLARITY checklist? Field only visible to intervention sites	No - not documented / Yes - documented on CLARITY paper checklist / Yes - documented in electronic notes or CLARITY checklist not available to be scanned			
44.	Upload CLARITY checklist OR complete CLARITY checklist electronically Field only visible to intervention sites	Upload field or complete electronically			
		Ambulatory data collection form			
45.	Did the patient receive outpatient or ambulatory follow-up?	Yes / No			
46.	Date of ambulatory follow-up Only appears if outpatient or ambulatory follow-up undertaken	Date time field (with field validation)			
47.	Were any ambulatory investigations performed? Only appears if outpatient or ambulatory follow-up undertaken	Yes (specify from list) / No	- Admission clerking - Clinical notes - Laboratory / radiology		
48.	What did the ambulatory investigations show? Only appears if outpatient or ambulatory follow-up undertaken	Specify findings (Imaging, urine dip, bloods)  For imaging: No abnormality / Appendicitis - simple without faecolith / Appendicitis - simple with faecolith / Appendicitis - complex localised / Appendicitis - complex diffuse / List of other common diagnoses	- systems		

49. Decision by surgical team at outpatient or ambulatory follow-up Only appears if outpatient or ambulatory follow-up undertaken	Discharge / Admit / Refer / Other investigation	
50. Time and date of admission from ambulatory care Only appears if outpatient or ambulatory follow-up undertaken	Date time field (with field validation)	

	Clinical management				
51.	Did the patient receive an operation within 30 days of admission / assessment?	Yes / No			
52.	When was the decision made to operate? Only appears if patient has an operation	Date time field (with field validation)			
53.	Was non-operative management attempted?	No - initial decision operative management / Yes - nonoperative management failed / Yes - nonoperative management successful			
54.	When did patient fail non-operative management? Only appears if nonoperative management attempted	Date time field (with field validation)			
55.	Patient ASA grade	Grade I-V (Full ASA classification available at:			
56.	Only appears if patient has an operation  Knife to skin time  Only appears if patient has an operation	https://www.asahq.org/resources/clinical-information/asa-physical-status-classification-system)  Date time field (with field validation)	Anaesthetic notes     Operation notes		
57.	Primary operation performed Only appears if patient has an operation	Defined according to list of OPCS codes	·		
58.	Was an additional procedure performed during this procedure?  Only appears if patient has an operation	No / Yes - OPCS list of procedures			
59.	Operative approach Only appears if patient has an operation	Open (performed exclusively using instruments inserted into the abdomen through a <u>surgical incision</u> ).  Laparoscopic (performed exclusively using instruments inserted in to the abdomen through <u>small ports</u> ) or Laparoscopic-assisted (laparoscopic surgery in which an <u>incision is enlarged</u> to deliver a specimen or to insert a gloved hand into the abdomen).  Laparoscopic converted to open (surgery planned to be performed laparoscopically but for unforeseen reasons the decision was made to change to an open approach).			

Yes – completely / Yes – incompletely (stump remaining) / No – not indicated / No – could not be identified	
Clean (Gastrointestinal (GI) and genitourinary (GU) tract not entered) – diagnostic only.  Clean-contaminated (GI or GU tracts entered but no gross contamination).  Contaminated (GI or GU tracts entered with gross spillage or major break in sterile technique).  Dirty (There is already contamination prior to operation, e.g. faeces or bile).	
None / Serous fluid / Localised pus / Free bowel content (i.e. pus or blood)	
Date time field (with field validation)	
	identified  Clean (Gastrointestinal (GI) and genitourinary (GU) tract not entered) – diagnostic only.  Clean-contaminated (GI or GU tracts entered but no gross contamination).  Contaminated (GI or GU tracts entered with gross spillage or major break in sterile technique).  Dirty (There is already contamination prior to operation, e.g. faeces or bile).  None / Serous fluid / Localised pus / Free bowel content (i.e. pus or blood)

Abbreviations: ASA - American Society Anesthesiologists; OPCS - Office of Population Censuses and Surveys Classification of Interventions and Procedures; GI - Gastrointestinal; GU - Genitourinary

	30-day outcomes		
		Required data (definition / comment)	Suggested sources
64.	Underlying diagnosis causing symptoms on presentation	Appendicitis, colorectal cancer, common differentials, other (specify)	
65.	Histopathological assessment Only appears if patient has an operation	Histopathologically normal appendix / Simple appendicitis (not perforated, no abscess) / Complicated appendicitis (perforated or with abscess) / Adenocarcinoma / Appendiceal mucinous neoplasm / Carcinoid / Mucocele / Crohn's / Ulcerative Colitis / Other (specify)	
66.	Did the patient die within 30 days of first admission / assessment?	Yes – inpatient (specify date of death), Yes – out of hospital (specify date of death), No (specify date of discharge)	
67.	Date of discharge or death	Date time field (with field validation)	
68.	Critical care admission (including intensive care and high dependency units)	Yes, planned admission from theatre / Yes, unplanned admission from theatre / Yes, unplanned admission from ward / No	- Clinical notes
69.	Critical care bed days Only appears if has had a critical care admission	Number (days from <u>first postoperative day</u> to day of discharge from critical care. If the patient has not been discharged prior to the end of 30-day follow-up, enter '31').	
70.	30-day reoperation or reintervention for any cause	Yes – return to theatre / Yes – endoscopic reintervention / Yes – interventional radiology reintervention / No (tick all that apply – with field validation)	
71.	Did the patient require radiological, percutaneous or endoscopic drainage of their appendix at any point from first admission / assessment?	Yes – radiologically guided drainage (specify date and time), Yes – non-guided percutaneous drainage (specify date and time), Yes – endoscopically guided drainage (specify date and time), No – no drainage	
72.	30-day readmission	No (this applies if patient had died during initial admission) / Yes - planned / Yes- unplanned	

	Date and length of stay for readmission if they were readmitted	
73. Did the patient have any of the following complications?	List of complications: Surgical, Respiratory, Cardiovascular, Renal / Metabolic, Neurological, Miscellaneous.  Graded Clavien Dindo I-V	