Patient Experience Questionnaire

Please circle one answer for each question

1.	Have you had a rigid sigmoidoscopy performed before?
	Yes / No
	a. If so, how does your experience of LumenEye compare to your previous rigid sigmoidoscopy?
	Much worse / Worse / The Same / Better / Much Better
2.	I was very anxious about having the examination
	Strongly disagree / Disagree / Neutral / Agree / Strongly agree
3.	The LumenEye examination was more comfortable than expected.
	Strongly disagree / Disagree / Neutral / Agree / Strongly agree
4.	Please indicate by marking the line below with an 'X' how comfortable/ uncomfortable you found the procedure
	Comfortable
5.	I felt embarrassed/awkward during the procedure
	Strongly disagree / Disagree / Neutral / Agree / Strongly agree
6.	My doctor was gentle during the LumenEye examination
	Strongly disagree / Disagree / Neutral / Agree / Strongly agree
7.	I felt I had enough privacy when the LumenEye examination was performed
	Strongly disagree / Disagree / Neutral / Agree / Strongly agree
8.	Having a LumenEye examination in the community is more convenient than going to hospital for an endoscopy

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

9. Given the option, would you rather have future investigations:

In the community / In hospital / No preference

10. I feel that there is a benefit from having early specialist review of the images from your LumenEye assessment before being seen in the hospital

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

11. I am comfortable having images from my LumenEye examination shared with a specialist in the hospital

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

12. I find it reassuring that my images have been reviewed by a specialist whilst awaiting an appointment in the hospital

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

13. From my perspective, the LumenEye examination was necessary and could benefit my health

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

14. If needed, I would be willing to undergo a further examination with a LumenEye in future

Strongly disagree / Disagree / Neutral / Agree / Strongly agree

15. What is your overall opinion of your experience with LumenEye assessment?

Very poor / Poor / Neutral / Positive / Very positive

Thank you for your time

LuCID Study

Case Report Form

Patients demographics

Patient Identifier:		Setting:	(inpatient/outpatient)
Age:	Site:	Sex (M/F):	
GP Name:		Contra-indications Yes	□ No □
Consent: Yes 🗌 No 🗌			
Symptoms:			
Established diagnosis Of IBD	Yes No	(Crohns or	· UC)
Rectal Bleeding	Yes No)	
Altered bowel habit	Yes No		
Mucus discharge	Yes No		
Proctalgia	Yes No		
Pruritis Ani	Yes No		
Known Haemorrhoids	Yes No)	
Mass or prolapse	Yes No		
Family history of cancer	Yes No)	
Other symptoms:			
			

Procedure details

Enema given? Home Clinic C	Inpatient		
Repeat enema required? Yes \square No \square			
Distance reached (cm):			
Landmarks visualised:			
Dentate line	Upper rectal fold		
Rectosigmoid junction \square Sigmoid \square			
Number of air pumps delivered:			
Quality of bowel prep Good			
(Good; more than 80% mucosa visible, Average; more than 50% mucosa visible, Poor; less than 30% mucosa visible)			
Length of procedure (mins)	_		
Normal study: Yes	(if no please answer below)		
Lesions identified:			
Tumour:	(describe features, size and location)		
Adenoma	(size and location)		
Inflammation present: Yes $\ \square$ No $\ \square$			
Foreign body:			
Proctological disease:	(e.g. haemorrhoids, fissure, fistula)		

Biopsy performed? Yes \(\square\) No \(\square\)
No of biopsies taken:
Confidence in suspected diagnosis: v. confident \square Reasonably confident \square Unsure \square unable to make diagnosis \square
Images captured? Yes No
Videos captured? Yes □ No □
Remote consultation required? Yes \(\square\) No \(\square\)
No of attempts to connect
Delay in connection? Yes No
Overall experience of RTC? Excellent Good Average Poor
If poor, please state reasons
Post procedure
Post procedure Were there any patient related complications? Yes \(\square \) No \(\square \)
Were there any patient related complications? Yes No If yes, please
Were there any patient related complications? Yes No
Were there any patient related complications? Yes No Service No Se
Were there any patient related complications? Yes No If yes, please
Were there any patient related complications? Yes \(\simega \) No \(\simega \) If yes, please state Were you able to reach a diagnosis? Yes \(\simega \) No \(\simega \) If not, please state
Were there any patient related complications? Yes \(\simeq \text{No} \square \) If yes, please state
Were there any patient related complications? Yes \(\simega \) No \(\simega \) If yes, please state Were you able to reach a diagnosis? Yes \(\simega \) No \(\simega \) If not, please state
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Were there any patient related complications? Yes No If yes, please state Were you able to reach a diagnosis? Yes No If not, please state reason:
Were there any patient related complications? Yes No I If yes, please state

Patient Reference ID	_
Name of endoscopist	_
GMC number	_
Grade	
Signature	
Chaperone name:	
Chaperone signature	
Name of virtual Proctor	
PPE used? Yes \(\square\) No \(\square\)	
Report completed? Yes \(\square\) No \(\square\)	
GP letter sent? Yes \(\square\) No \(\square\)	
Concern about Covid-19 transmission? Yes \(\square\) No \(\square\)	
Device swabbed and sent for PCR? Yes \(\simega\) No \(\simega\)	

Table S1. Patient and Clinician responses to the post examination questionnaire of their experience with LumenEye $^{\mathbb{R}}$

Patient responses		n	%
More Comfortable than Expected	Strongly Disagree	3	3%
	Disagree	6	6%
	Neutral	19	17%
	Agree	38	35%
	Strongly Agree	44	40%
Total responses		110	
The procedure was embarrassing or	Strongly Disagree	36	32%
awkward	Disagree	24	22%
	Neutral	22	20%
	Agree	18	16%
	Strongly Agree	11	10%
Total responses		111	
The doctor was gentle	Strongly Disagree	3	3%
	Neutral	4	4%
	Agree	24	22%
	Strongly Agree	80	72%
Total responses		111	
I had enough privacy during the	Strongly Disagree	2	2%
examination	Neutral	3	3%
	Agree	43	39%
	Strongly Agree	63	57%
Total responses		111	
This examination is more convenient in the	Strongly Disagree	2	2%
community	Neutral	4	4%
	Agree	26	24%
	Strongly Agree	78	71%
Total responses		110	
Where would you rather have the	Community	76	70%
examination	No Preference	28	26%
	Hospital	4	4%
Total responses		108	
I feel there is a benefit from early specialist	Strongly Disagree	2	2%
input whilst awaiting an appointment in the	Neutral	5	5%
hospital	Agree	25	23%
	Strongly Agree	78	71%
Total responses		111	
I was comfortable having my images shared	Strongly Disagree	2	2%
with a specialist	Neutral	2	2%
	Agree	27	25%
	Strongly Agree	79	72%
Total responses		110	
I felt reassured my images were reviewed	Neutral	2	2%
by a specialist	Agree	24	22%
	Strongly Agree	84	76%

Total responses		110	
LumenEye can benefit my health	Neutral	4	4%
	Agree	27	25%
	Strongly Agree	79	72%
Total responses		110	1 1
I have undergone rigid sigmoidoscopy	Yes	24	22%
before	No	86	78%
Total responses	110	110	, 0, 0
How does LumenEye compare to your experience of rigid sigmoidoscopy	Much worse	0	0%
	Worse	1	5%
	The same	4	19%
	Better	5	24%
	Much better	11	52%
Total responses		21	
If needed, I would be willing to undergo a	Strongly Disagree	1	1%
further examination with a LumenEye	Neutral	4	4%
, and the second	Agree	31	28%
	Strongly Agree	74	67%
Total responses		110	
Overall Opinion	Very Positive	87	79%
_	Positive	20	18%
	Neutral	3	3%
Total responses		110	
Visual analogue score of how comfortable	0-24	6	6%
(100) or uncomfortable (0) was LumenEye	25-49	22	21%
examination	50-74	28	26%
	75-100	50	47%
Total responses		106	
Clinician responses		n	%
Were you able to make a diagnosis?	Yes	91	80%
	No	23	20%
Total responses		114	
Confidence in the suspected diagnosis	Very confident	62	54%
	Reasonably confident	38	33%
	Unsure	4	4%
	Unable to make	9	8%
	diagnosis/incomplete examination		
	No answer	1	1%
Total responses		114	
Overall experience of LumenEye and CHiP	Excellent	96	84%
	Good	11	10%
	Average	2	2%
	Poor	1	1%
	No answer (incomplete	4	4%
	examination)		
Total responses		114	

Figure SI-ROC curve demonstrating the sensitivity and specificity of the LumenEye[®] for all pathology when compared with colonoscopy or flexible sigmoidoscopy (Gold Standard) findings (in 48 patients with subsequent colonoscopy or flexible sigmoidoscopy). Area Under Curve (AUC) = 81.9% (66.2-97.6%).

