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Aim:

To evaluate the quality of CT reporting for large abdominal hernias at a District General Hospital and to develop a standardized reporting framework. The goal is to improve the clarity and consistency of radiological assessments, thereby enhancing preoperative planning and supporting informed surgical decision-making.

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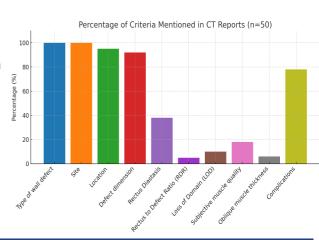
Results:

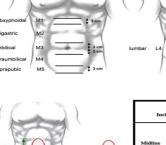
The analysis revealed variability in the documentation of critical diagnostic features:

- Hernia site documented in 100%, location in 95.2%
- Defect dimensions reported in 92% of cases
- Rectus diastasis (38%) and muscle quality (18%) were infrequently mentioned
- Loss of domain and oblique muscle thickness were documented in only 10% and 6%, respectively
- Complicating factors (e.g. stoma, mesh, incarceration) included in **78%** of reports

Methodology:

A retrospective audit of 50 patients with large abdominal hernias with preoperative CT scans assessed key features including hernia location, size, sac contents, rectus diastasis, domain loss, and complications such as obstruction or ischemia. Muscle condition and anatomical factors impacting surgical planning were also evaluated.





mbar L4	L2 flank	3 cm	1
Inc	E H S isional Hernia C	lassificatio	on
Midline	subxiphoidal	MI	
	epigastric	M2	+
	umbilical	M3	+
	infraumbilical	M4	-
	suprapubic	M5	-
Lateral	subcostal	LI	-
	flank	L2	+
	iliac	L3	-
	lumbar	L4	+
Recurrent	incisional hernia	? Yes O	No C
length:	cm	width:	cm
Wideb	WI	W2	W3

274mm 274mm 131mm 251mm

Conclusion:

The findings underscore inconsistencies in CT reporting for large complex abdominal hernias, particularly in documenting crucial aspects like muscle quality and domain loss. These gaps in reporting can impact surgical planning and outcomes. The audit advocates for the development of standardized CT reporting guidelines to ensure comprehensive and consistent evaluations, ultimately aiding surgeons in making informed decisions for hernia repair.

Structured Report			
Number of defects	[]		
Defect 1	[primary / incisional]		
Site	[medial / lateral]		
Location	[from xiphoid, symphysis, 12 th rib, iliac crest]		
Defect dimension	Length: [] cm Width: [] cm		
Defect 2	[same as above]		
Rectus Diastasis	[present absent]. Length: [] cm Width: [] cm.		
Rectus to defect Ratio	[right rectus] cm + [left rectus] cm / [width of defect] cm		
Loss of Domain	[HSV / TPV] x 100% (HSV = hernia sac volume) (TPV = total peritoneal volume = Hernia sac volume + abdominal cavity volume)		
ubjective impression of muscle and quality	[]		
Thickness oblique abdominal muscle	[]		
Presence of	[Stoma Fistula Mesh Collection Previous surgery Adhesions Incarceration]		

Reference: www.radiologyassistant.nl/abdominal wall hernias, www.pubmed.com

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