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Short Communication

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Mucinous Tumour in Ileal Pouch Post Restorative Proctocolectomy and Ileal Pouch Anal Anastomosis for Familial Adenomatous Polyposis

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CLINICAL CONTEXT

We present a fifty-six years old female having surveillance gastroscopy and colonoscopy ten years after a restorative proctocolectomy and Ileal-pouch anal anastomosis (IPAA). This was performed for Familial Adenomatous Polyposis (FAP). The patient was found to have unusual patchy nodular areas of abnormal mucosa in the ileal pouch and at the level of the anastomosis.

Magnetic Resonance Imaging (MRI) was performed which showed a large fluid collection (12x10x13 cm) within the pelvis. Histopathology from biopsy was reported as a low grade mucinous tumour with abundant mucoid material containing scattered degenerate cellular material and histiocytes. Computed Tomography (CT) of chest and pelvis did not reveal any evidence of metastatic disease.

A pelvic exenteration was performed and patient underwent adjuvant radiotherapy. Histopathology showed cystic mass $50 \text{ mm} \times 50 \text{ mm} \times 30 \text{ mm}$ in size containing mucin of intermediate nuclear grade with 0/18 nodes involved (Figure 1).



mucinous tumour (see arrow).

DISCUSSION

There have been only a few case reports of adenocarcinoma within ileal pouches after restorative proctocolectomy and IPAA in FAP. In a recent literature review, only 21 cases were identified. While malignancy is rare, risk of pouch adenomas is common and ranged between 6 to 75% ²⁻⁵ Risk factors for development of pouch adenomas include >1000 colonic polyps and

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age >50 years old 5, age of pouch, with pouches >10 years old at high risk of adenoma² and those who have previously developed pouch adenomas.³

It is unclear why the risk of malignant transformation in these patients is low, but most cohort studies have shown adenomas to be tubular or tubulovillous with only a small percentage demonstrating dysplasia. To the best of our knowledge, there have been no reports of mucinous tumours within an ileal pouch in the literature.

While the incidence of malignancy within an ileal pouch is low, this case illustrates the importance of surveillance for patients who have had restorative proctocolectomy and IPAA for FAP. Apart from ileal pouch malignancy, patients may also develop anastomotic site tumours and anal transitional zone tumours, although this is also a rare entity. Older pouches are more at risk of malignancy. In this case, the mucinous tumour was found thirteen years after restorative proctocolectomy and IPAA.

The Australian Clinical Practice Guidelines and European guidelines recommend annual pouch surveillance post restorative proctocolectomy and IPAA for FAP.^{7,8} As the risk of pouch adenoma and adenocarcinoma, anal transitional zone and anastomotic tumours increases with time, FAP patients post restorative proctocolectomy and IPAA should have lifelong surveillance.

CONFLICTS OF INTEREST

The authors have no conflicts of interest to declare.

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