**Ectopic ACTH secreting neuroendocrine tumor of the small bowel mesentery**

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**Abstract:**

**Background:** Neuroendocrine tumors (NET) commonly involve the gastrointestinal system, particularly the small intestine, appendix and pancreas. These tumors can result in ectopic production of ACTH. Mesenteric NETs are extremely rare and often secondary to another primary tumor. Our aim is to discuss a case and literature review to raise awareness about this rare condition.

**Method:** We report a case of a primary small bowel mesenteric ACTH secreting NET. Ethics approval was gained, the patient’s electronic medical records were accessed and intraoperative images taken of the mass. A literature review was conducted and extensive search of electronic databases including Medline, Scopus, Embase, Cochrane and PubMed was performed.

**Results:** A 69 year-old female presented to hospital with hypokalemia and metabolic acidosis. Other investigations revealed elevated ACTH and cortisol levels, and PET scan demonstrated a singular avid mass in the mesentery suspicious for malignancy. No other primary or abnormality was detected. A laparoscopic assisted small bowel resection was performed, and post-operative hydrocortisone therapy was commenced. An extensive literature search revealed only two case reports reporting primary mesenteric neuroendocrine tumor resulting in ectopic ACTH production.

**Conclusion:**. This is an extremely rare occurrence of ectopic ACTH secreting neuroendocrine tumor of the mesentery. Based on our literature search, it is the third ever reported case.

**Biography of presenting author** (should not exceed 100 words)

Dr. Carlaw has a Doctor of Medicine (MD) degree from University of Sydney in 2019 and a Bachelor of Biomedical Sciences degree (BBiomedSc) from Monash University in 2015. She is currently studying for a Master of Surgery at the University of Sydney. She is interested in General Surgery and is a General Surgery Senior Resident at Westmead Hospital. She has published research internationally in a variety of surgical fields and has presented at national conferences.

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