

# Surgical Pathology and Oncology Research

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### **Anal Canal -The orphaned lesions -A Surgical Oncological perspective**

The distal end of the gastrointestinal tract -the anal canal often gets overlooked and lives under the shadow of colorectal carcinoma which remains the third most common cancer worldwide. Despite advanced diagnostics and therapeutics, accurate recognition of anal canal lesions both clinically and pathologically is fraught with difficulty and remains a diagnostic challenge due to their uncommon yet often complicated clinical presentations. This is further compounded due to the complex anatomy of this region wherein two mucosal surfaces meet to form the anus externally which is predominantly subject to skin related lesions while the inner anal canal gives rise to unusual pathological neoplasms.

This orphaned region of the gastrointestinal tract has many benign lesions including hemorrhoids [piles], fissures and fistulae that are well known as these are often extremely painful lesions. Through a series of clinical cases uncommon and unusual surgical aspects of these cases will be discussed together with their diagnostic pitfalls. Paget's disease of the anus will be discussed from its historical perspectives to our current understanding of this uncommon disease. This will then be followed by a journey through the neoplastic lesions of the anal canal with special references to the unusual anal adenocarcinomas and the unique subset of signet ring cell adenocarcinoma. These lesions are often discovered at a late stage as advanced disease as they are relatively asymptomatic and clinically silent in the early stage of the disease. Current proposed oncological management of these

lesions under the umbrella of multidisciplinary tumor board rounds and its usefulness will be discussed. This session will conclude with clinical discussion of prototype cases with an emphasis of techniques and tips for improved surgical practice including patient education strategies for improved outcomes of these unique orphaned lesions.

#### **Recent Publication**

1. Hyperganglionosis in Pneumatosis Cystoides Intestinalis- A Clinicopathological Review in Adults, DOI:10.33425/2639-9334.1053
2. Mixed epithelial endocrine neoplasms of the colon and rectum – An evolution over time: A systematic review, DOI: 10.3748/wjg.v26.i34.5181
3. Pneumatosis cystoides intestinalis and hyperganglionosis - Cause or Effect? A review, DOI: 10.1016/j.prp.2020.152879

#### **Biography**

Selliah Kanthan is a Professor in the Division of General Surgery at the University of Saskatchewan. He is a general surgery consultant with a focused interest in colorectal surgery. He has published more than 80 peer-reviewed manuscripts that are indexed in PubMed /Google scholar and serves as an editorial board member in various journals. He is an active clinician teacher and continues to participate and present at various national and international meetings with more than 125 conference abstract presentations to his credit.

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