Conclusions A good response to chemotherapy can result in acceptable survival in metastatic carcinoma Gall Bladder. Necrotic change in Sister Mary Joseph Nodule can be a surrogate marker of such response.

### IDDF2018-ABS-0257 DETECTING AND SEGMENTING POLyps USING A DEEP LEARNING-BASED MODEL

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**Background** Colorectal cancer is the third most common cancer in the world, which developed from untreated polyps. Detecting polyps in their early stage have become a serious medical issue. Wireless capsule endoscopy (WCE) was designed to examine the intestinal diseases without surgery and can give a direct visualisation of intestines, in which the time cost is to analyse lots of images to capture the abnormal parts. The doctors will be wearied with about 25,000 images per person produced by WCE. This study aims to build a computer-aided diagnosis system to help doctors analyse WCE images and detect polyps.

**Methods** We use a deep learning-based model to build a computer-aided diagnosis system of WCE images for the assignment of detecting and segmenting polyps. The U-Net network with both dice loss and cross entropy loss is employed in this work, which is considered as an encoding and decoding model. The data used were available from CVC-Colon and CVC-Clinic, it has 992 images with polyps totally. The data is shown in table 1. Comparison to other algorithms, the U-Net model can learn more features automatically and is a high-efficient method for our assignment.

**Results** The performance of polyp segmentation was evaluated by Dice’s coefficient (also known as the Dice coefficient), which presents the degree of similarity between prediction and ground truth. The Dice’s coefficient in our study is 84.15%. The segmentation results are shown in IDDF2018-ABS-0257 figure 1.

### Abstract IDDF2018-ABS-0257 Table 1 Data are divided into training data, validation data, and test data

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<th>Datasets</th>
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<th>Validation</th>
<th>Test</th>
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Abstract IDDF2018-ABS-0257 Figure 1 Segmentation results, showing the results of different size and number of polyps
Conclusions WCE plays an essential role in diagnosis and prevention of colorectal cancer. However, distinguishing abnormal WCE images with polyps is a significant challenge because it needs high time cost. The results show that our method can help physicians analyse the WCE images and reduce their pressure. This method could be further utilised in the clinical trials to help physicians from the tedious image analysing work.

IDDF2018-ABS-0258  A CASE REPORT OF WARFARIN INDUCED SPONTANEOUS SUB-MUCOSAL AND MESENTERIC HEMATOMA IN THE GASTROINTESTINAL TRACT (SMALL BOWEL) CAUSING BOWEL OBSTRUCTION

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Background To present a rare case of Warfarin-induced spontaneous sub-mucosal and Mesenteric hematoma in the Gastrointestinal Tract (Small Bowel) causing bowel obstruction.

Methods Case Report.

Literature Review.

Results A case of a 67-year-old male is presented with a chief complaint of abdominal pain for three days and difficulty passing stool. He has a known case of Hypertensive atherosclerotic cardiovascular disease, Rheumatic Heart disease, Coronary Artery Disease s/p Coronary Angiography, Chronic Atrial Fibrillation, and Diabetes Mellitus Type II. Maintained on several medications including ASA 80 mg 1 tab OD and Coumadin 5 mg 1 1/2 tab OD. He was lost to follow-up for one year. On his admission, his PT and INR were reportedly undetectable. He was admitted and treated as a case of Small Bowel Ischemia secondary to spontaneous sub-mucosal and Mesenteric haemorrhage and Non-ST Elevation Myocardial Infarction. The entire duration of the hospitalisation took 11 days to include ICU stay, and surgical procedure and recovery.

Conclusions This case highlights the risk of haemorrhage in a high-risk patient taking warfarin and the need for close monitoring and follow-up. An intramural hematoma should be entertained in patients on warfarin treatment presenting with clinical signs and symptoms of bowel obstruction. Non-operative treatment of spontaneous small bowel hematoma has a good outcome in most patients. This also stresses the importance of diligent follow-up with the attending physician to ensure a proper balance of anticoagulation and risk of bleeding. On the other hand, this case emphasises that over-anticoagulation leading to bleeding creates negative feedback to the heart, by increasing metabolic demands, which can lead to a paradoxical thromboembolic phenomenon such as Myocardial

IDDF2018-ABS-0259  SEGMENTATION OF INTESTINAL POLYPS VIA A DEEP LEARNING ALGORITHM

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Background Colorectal is the third most commonly occurring cancer in men and the second most commonly occurring cancer in women. At least 80%–95% of colorectal cancers are evolved from intestinal polyps. Therefore early screening of intestinal polyps is one of the crucial ways to prevent colorectal cancer. WCE is widely used in the examination of the internal environment of the digestive tract. However, lots of medical images per patient undoubtedly create a considerable burden on doctors. Thus, in this paper, we describe a