**SUPPLMENTARY MATERIAL of**

**Title: Automatic Detection of Colorectal Polyps With Mixed Convolutions and its Occlusion Testing**

**Information of the video frames in Table 3 from** [**https://www.gastrointestinalatlas.com/**](https://www.gastrointestinalatlas.com/)**, a free medical website.**

**VIDEO 1 (Pediculado 3)**

This video is about 71 yearold man who underwent a colonoscopy for a dyspeptic syndromecontaining **l**arge, ulcerated polyp with a wide pedicle and uneven surface of intra-mucosal cancer foci. Due to the patient's anticoagulation, it was advised to postpone the polypectomy till 15 days.

**VIDEO 2 (Pediculado 5)**

This video is about Recto-Sigmoid junction adenomas with chicken skin mucosa. It is associated with colonic neoplasms which are endoscopic ally and histologically aberrant. Colonic chicken skin mucosa is an endoscopic condition that develops in the lamina propria of the mucosa next to colonic tumours as a result of fat build up in macrophages. The pathophysiological consequences of the presence of microvilli that resembled those in the small intestine in CSM were found unclear in the patient. The distal colon was the primary location of CSM-related adenomas, which were linked to advanced disease and numerous adenomas. According to the physician’s opinion, CSM may serve as a possible indicator of the development of distant colorectal adenomas into cancer.

**VIDEO 3 (Polipomsdz2**)

This video is about a 56-year-old woman who had irregular rectal bleeding for the past four months. A colonoscopy revealed a big lump with congested internal haemorrhoids.

**VIDEO 4 (Polipimsdz6**)

This video is another clip from VIDEO 3 (Polipomsdz2) of the same patient.

**VIDEO 5 (Polypileocecalvalve)**

This video is about 59-year-old woman who had tubulovillous adenoma which is ileocecal in origin valve.

**VIDEO 6 (Polypvv)**

This video shows an adenoma. No further information is provided on the website.

**VIDEO 7 (Rectalcarpet**)

This video shows an ileocecal valve-emerging sessile tubulovillous adenoma found in a 59-year-old female who underwent a colonoscopy as part of her routine medical care.