
Universidade do Minho
Escola de Engenharia/Departamento de Informática



Mestrado Integrado em Engenharia Biomédica

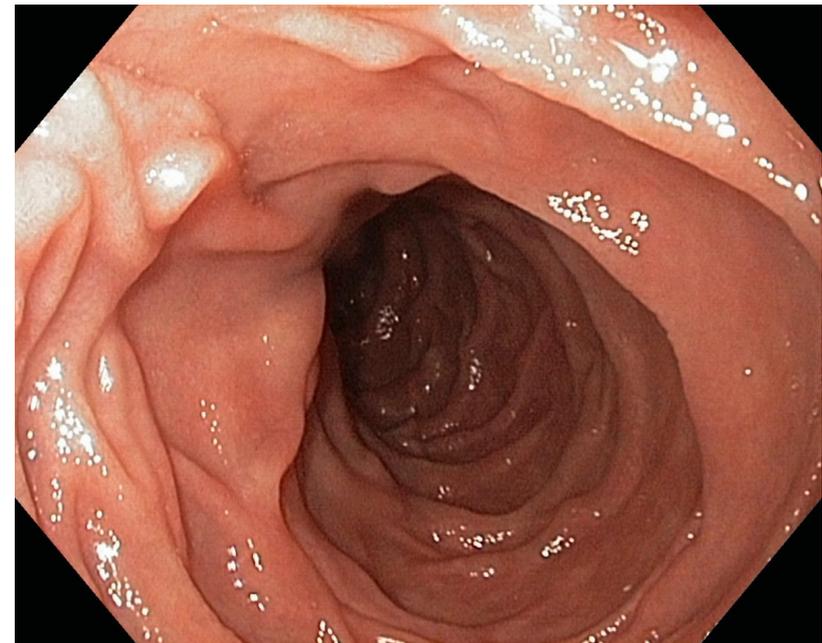
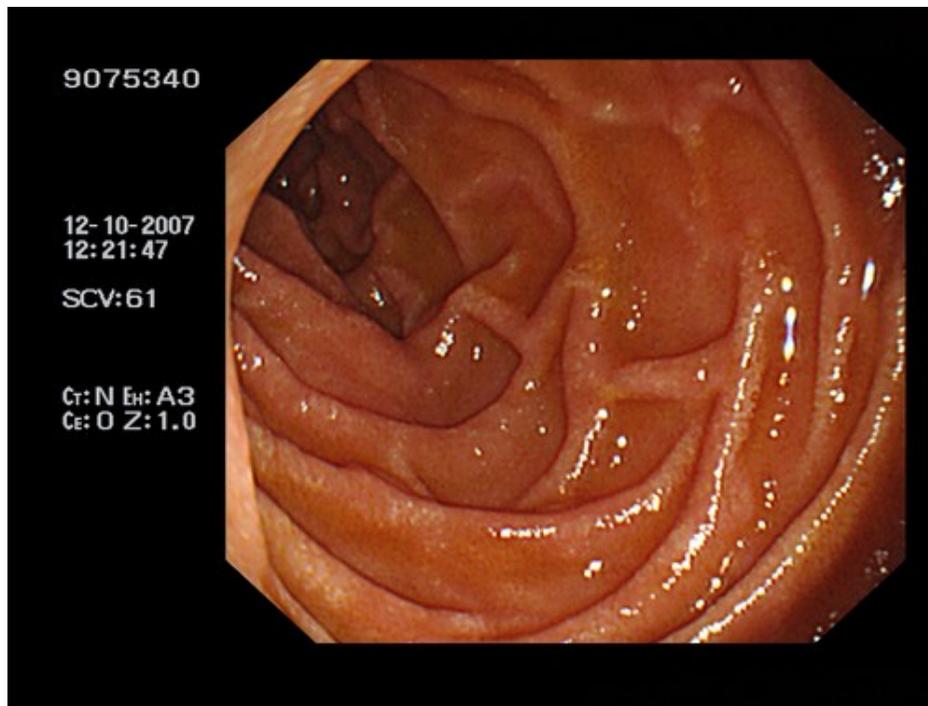
Algoritmos de Processamento de Imagens - OpenCV

TRABALHO PRÁTICO - TEMAS

FRAMES INICIAIS/FINAIS



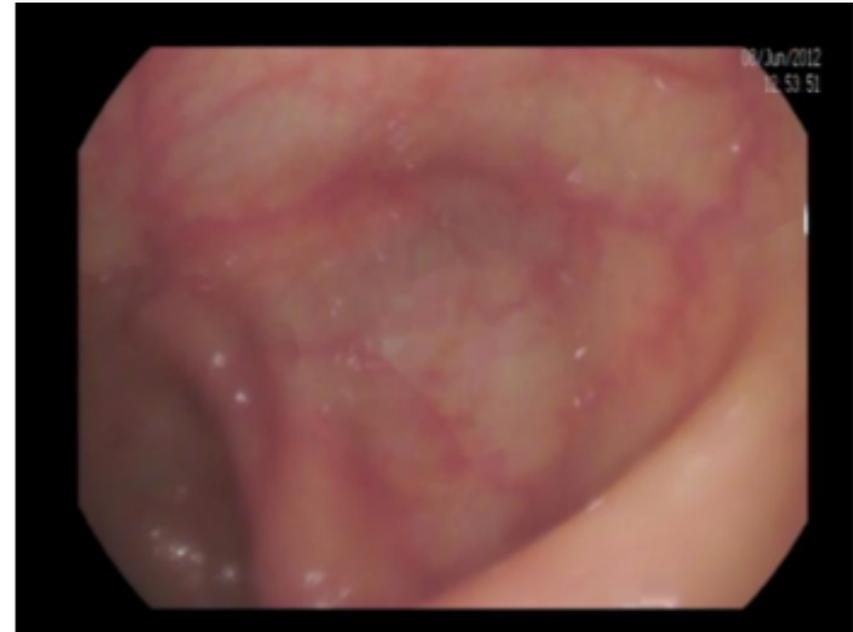
FRAMES DO TRATO DIGESTIVO



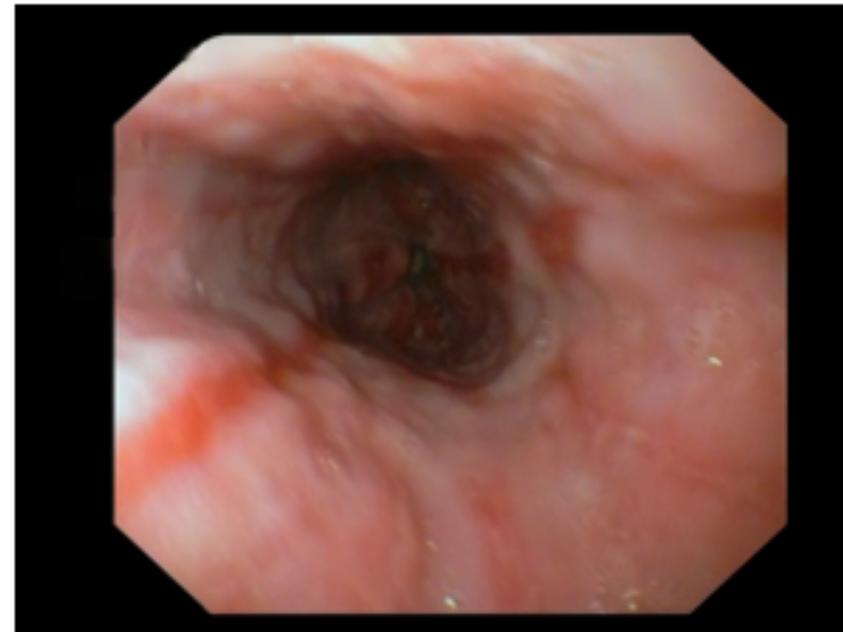
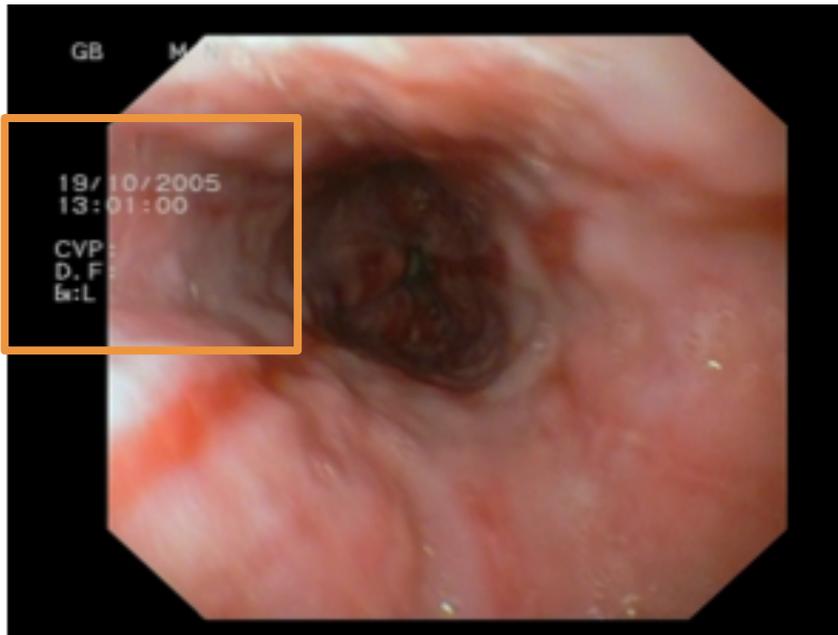
DETECÇÃO DA ÁREA ESPECULAR



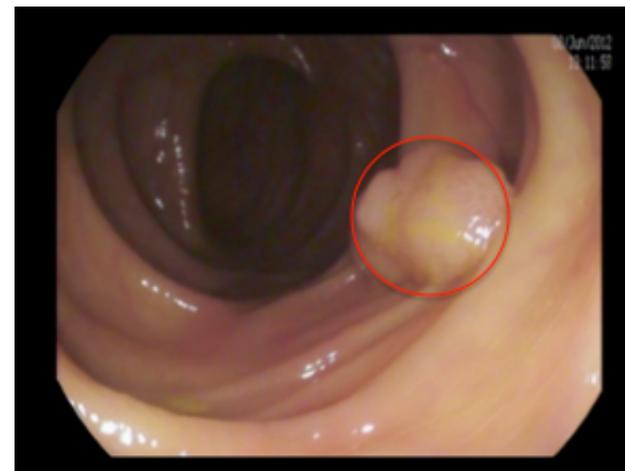
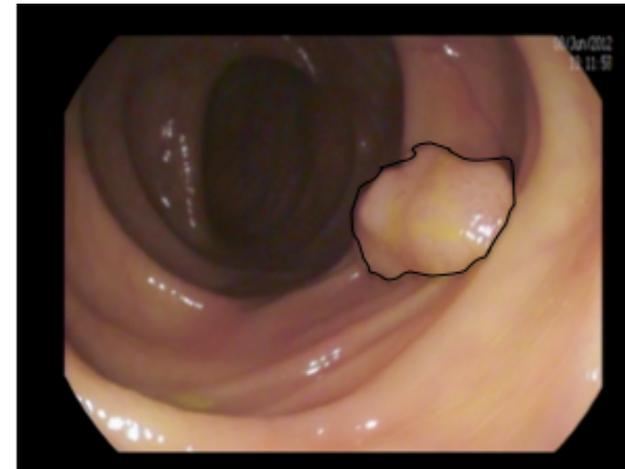
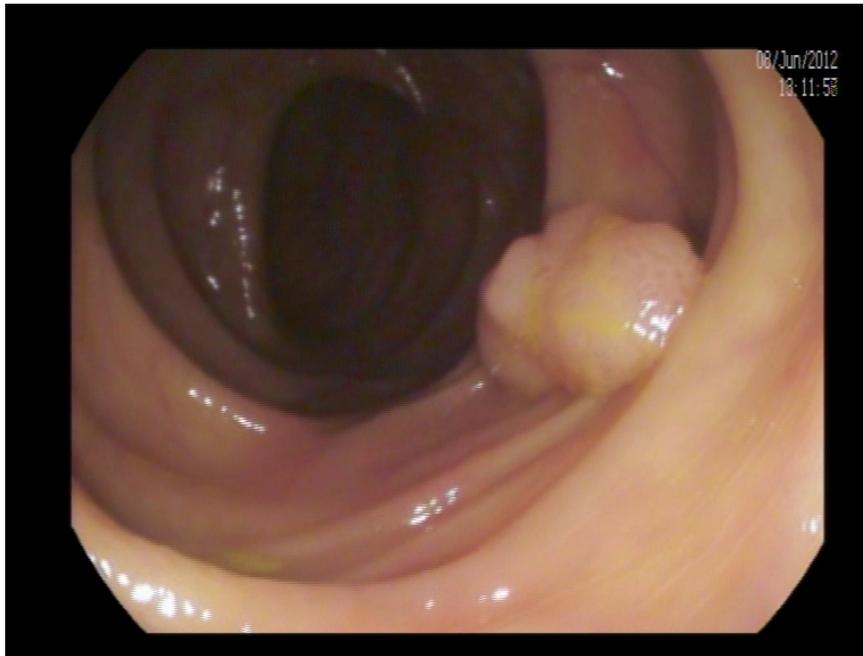
REMOÇÃO DA REFLEXÃO ESPECULAR



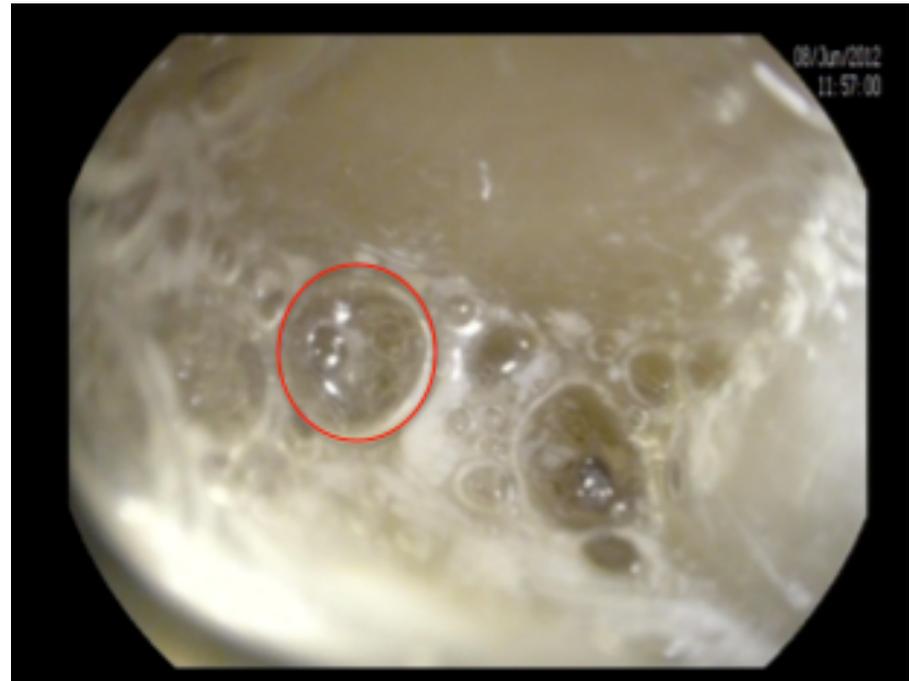
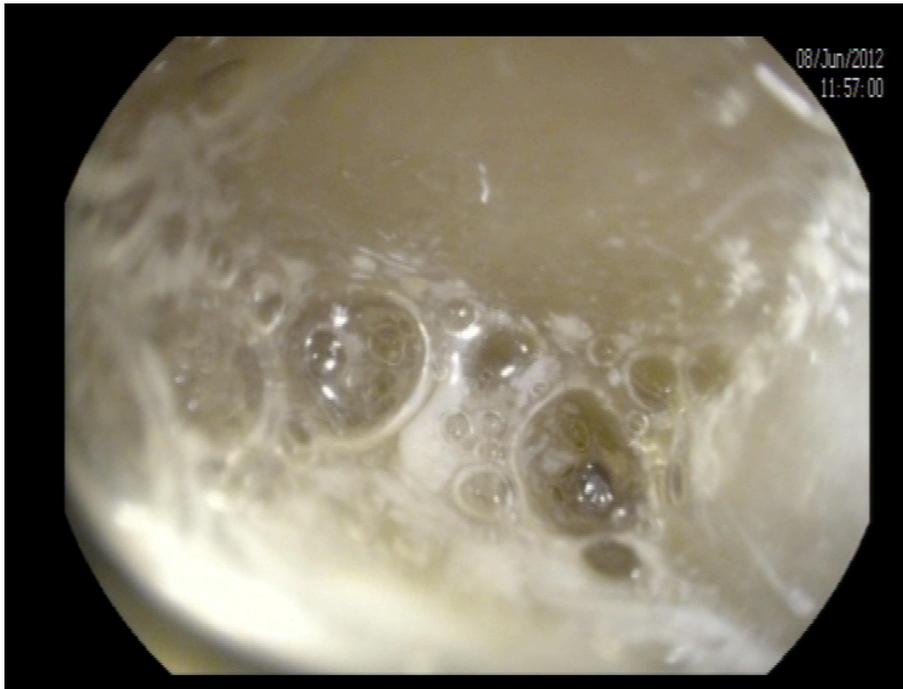
REMOÇÃO DE INFORMAÇÃO TEXTUAL



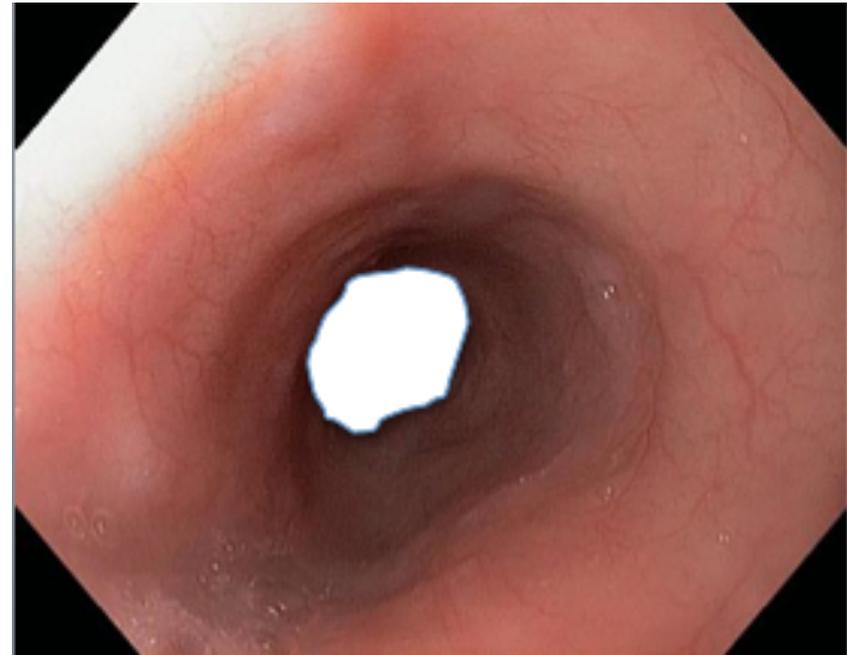
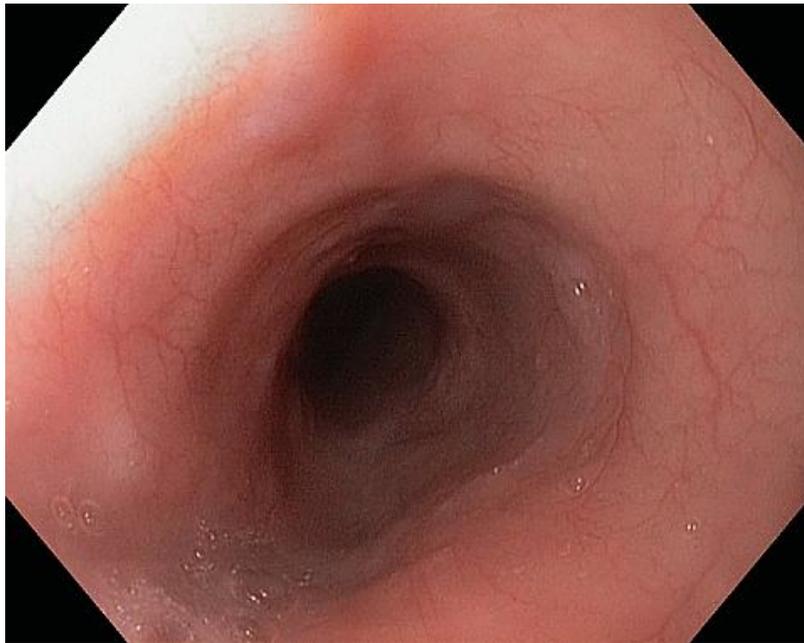
DETECÇÃO DE PÓLIPOS



DETECÇÃO DE BOLHAS



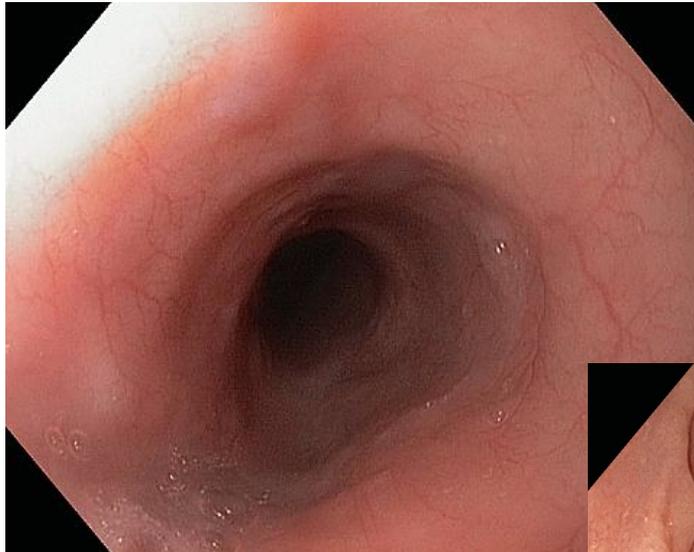
DETECÇÃO E EXTRAÇÃO DO LÚMEN*



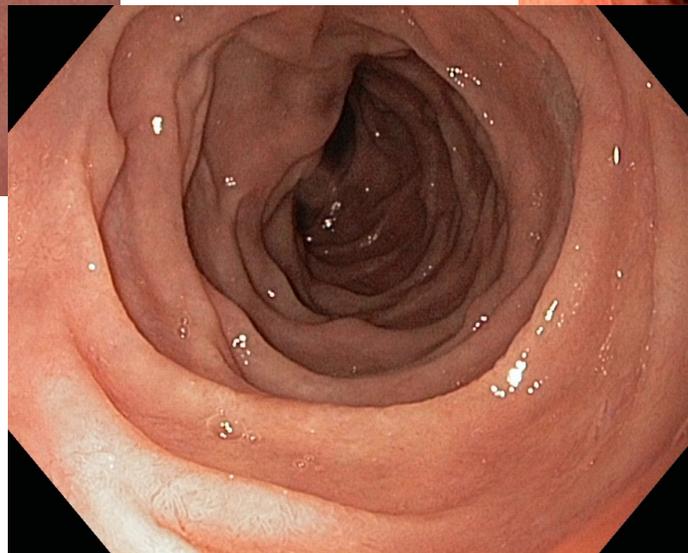
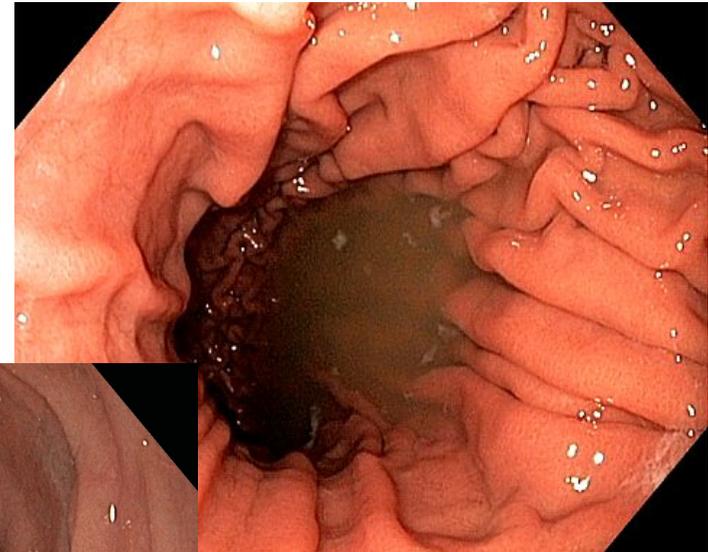
* Lúmen é a zona central, escura e homogénea presente numa imagem endoscópica

DETECÇÃO DE TEXTURAS

ESÓFAGO

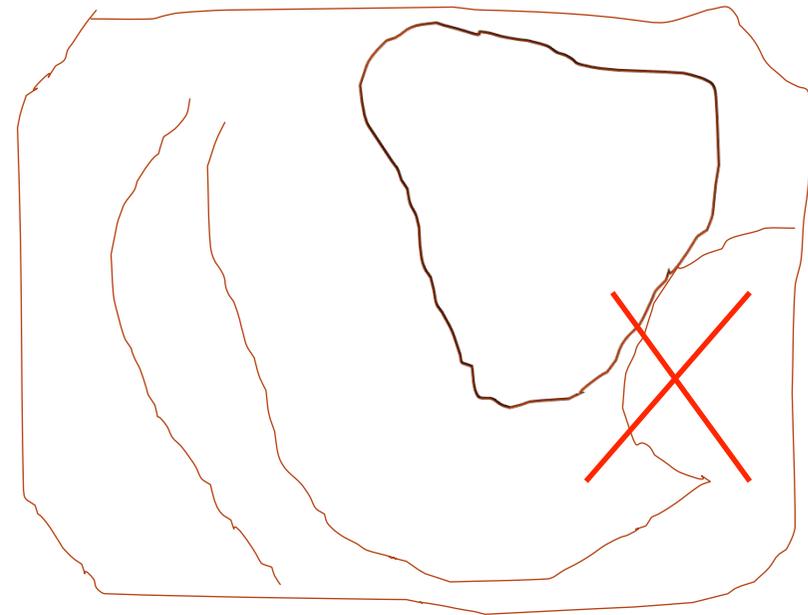
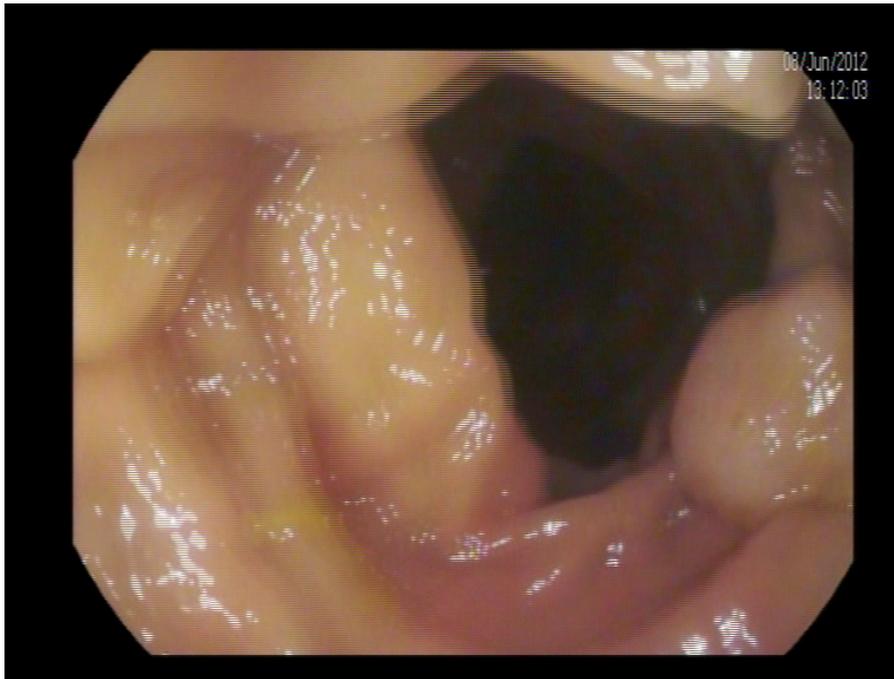


ESTÔMAGO

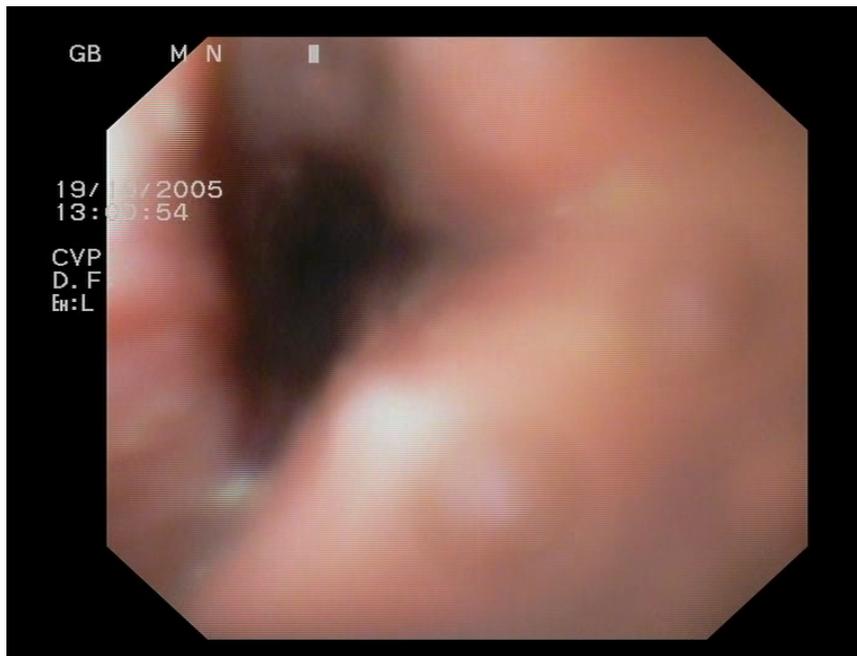


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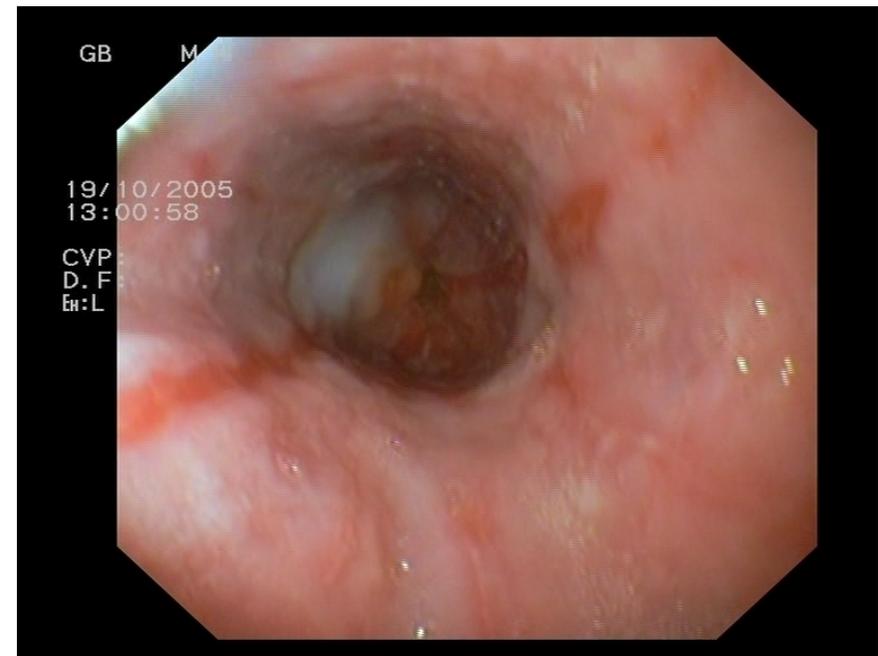
DETECÇÃO DE REGIÕES ANORMAIS



DETECÇÃO DE IMAGENS DESFOCADAS

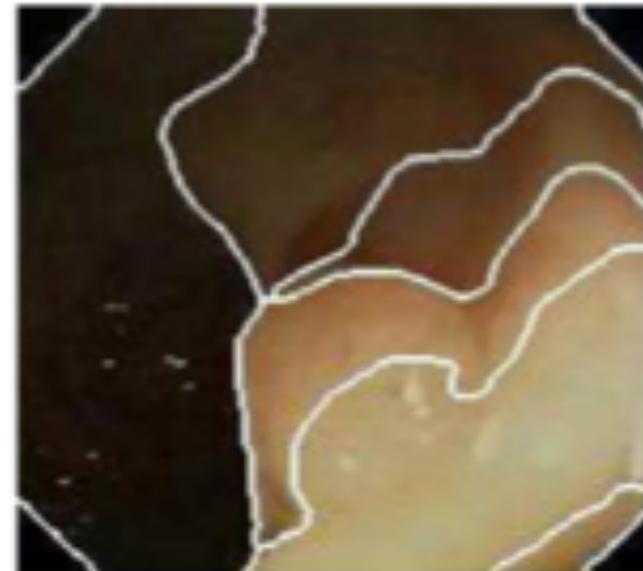
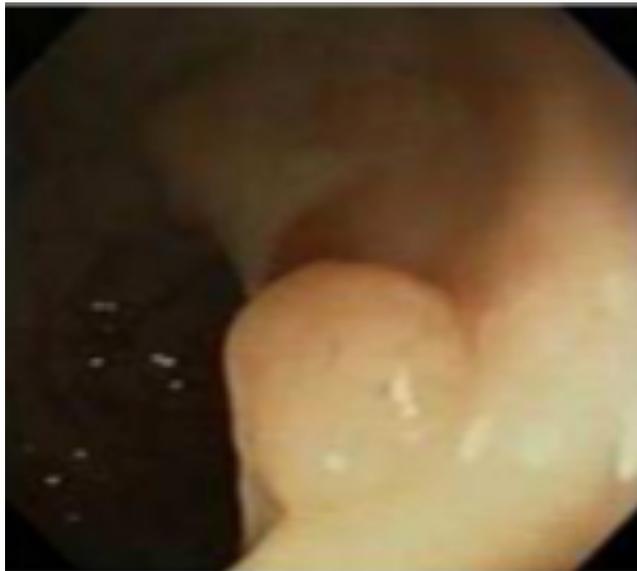


DESFOCADA



FOCADA

DIVISÃO DA IMAGEM EM REGIÕES



CONTAGEM DE PESSOAS



≈ 19