Primary signet-ring cell carcinoma of the pancreas diagnosed by endoscopic retrograde pancreatic duct biopsy: a case report with an immunohistochemical study

Fig. 1 Endoscopic retrograde cholangiopancreatography in a patient with primary signet-ring cell carcinoma of the pancreas. The main pancreatic ducts and common bile duct in the pancreatic head portion show irregular occluded contours.

Fig. 2 Pancreatic biopsy taken during endoscopic retrograde cholangiopancreatography. The biopsy shows pancreatic signet-ring cell carcinoma. Hematoxylin and eosin, ×100.

Fig. 3 The pancreatic signet-ring cell carcinoma cells stain positive for cytokeratin 18 (a), carcinoembryonic antigen (b), and mucin SAC (c). Immunostaining, ×100.

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References

Bibliography
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