PostScript

Pitfalls in diagnosing acute pancreatitis

We thank Jolobe for his letter (Gut 2005;54:1207–8) which mentions the difficulty of establishing the diagnosis of acute pancreatitis in patients with diabetic ketoadiposis.

We did not address diagnostic tests and medical intensive care treatment of acute pancreatitis in our article, but reviewed the interventional and surgical treatment strategies in acute pancreatitis. There is no doubt that treatment of acute pancreatitis, including organ failure in its early phase, is solely the correct diagnosis. The correct diagnosis has to be made to treat patient adequately, the correct diagnosis has to be made.

Therefore, the step in the diagnostic process of acute pancreatitis is to think of this disease. According to the latest classification from Atlanta, acute pancreatitis is an acute inflammatory process of the pancreas with variable involvement of other regional tissues or remote organ systems. From a clinical point of view, acute upper abdominal pain and elevated pancreatic enzyme levels are needed to diagnose acute pancreatitis. As pointed out by Jolobe in his letter, acute pancreatitis is still underdiagnosed under certain clinical conditions, including diabetic ketoacidosis, but also in other clinical situations, such as shock of unknown origin, patients under intensive care treatment, as well as rare causes of the disease. As acute pancreatitis can be associated with diabetic ketoacidosis and the association between these two is a two way cause-and-effect relationship, early imaging of the pancreas is recommended in these patients to establish the correct diagnosis.

Our article focused on the surgical and interventional treatment of severe acute pancreatitis.

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References

Severe recurrent Crohn’s disease of the ileocolic anastomosis disappearing completely with antibacterial therapy

Intestinal bacteria play an important role in the pathogenesis of Crohn’s disease, which occurs at sites with the highest concentrations of bacteria. Adherent invasive Escherichia coli associate with the ileal mucosa in Crohn’s disease, and E coli, Bacteroides, and fusiform bacteria are associated with early disease recurrence after surgical resection.

The incidence of clinical recurrence is approximately 50% at three years, with the risk higher in smokers than non-smokers. Endoscopic recurrence occurs in 75–90% of patients one year after surgery, and clinical disease correlates reasonably well with the endoscopic score. Antimicrobial prophylaxis therapies are unsatisfactory. Metronidazole 3 g daily, 6-mercaptopurine 50 mg daily, and azathioprine 2 mg/kg daily are only slightly more effective than placebo.

Antimicrobial agents have demonstrated efficacy in postoperative prophylaxis reducing the recurrence at the ileocolonic anastomosis. Metronidazole reduced severe endoscopic recurrence at three months and reduced clinical relapse at one year, but was poorly tolerated with significant nausea and vomiting.

Ornidazole 1 g daily for one year postoperatively reduced severe endoscopic and clinical recurrence at one year but not at two or three years.

We report a case of severe recurrent ileocolonic disease successfully treated with combination ciprofloxacin and metronidazole.

A 23 year old man with a three month history of abdominal pain and diarrhoea was diagnosed with Crohn’s disease in October 1998 after a small bowel series revealed narrowing and ulceration of the distal 10 cm of the terminal ileum. His symptoms were steroid responsive for two years.

Colonoscopy in June 1998 for recurrent abdominal pain showed severe ulceration and stenosis of the ileocaecal valve and with his symptoms unresponsive to corticosteroids he underwent surgical resection of a segment of severe fistulising terminal ileal Crohn’s disease. The remaining small bowel appeared normal. Histopathology confirmed severe active cicatrisation Crohn’s disease, with stenosis and gross wall thickening with a cobblestone appearance. He made an uncomplicated recovery and remained well without medication. Follow up colonoscopy in April 1999 demonstrated minor recurrent Crohn’s disease affecting one third of the ileocolonic anastomosis. He commenced metronidazole 400 mg daily, and on colonoscopy in March 2000 had severe inflammation and narrowing of the entire circumference of the ileocolonic anastomosis preventing ileal intubation. Ciprofloxacin 750 mg daily was added to the metronidazole. Colonoscopy in August 2001 showed superficial ulceration of less than one third of the anastomosis, minimal narrowing, and a normal neoterminal ileum and colon. He continued metronidazole 400 mg daily and ciprofloxacin 750 mg alternate daily until January 2003 when colonoscopy demonstrated a normal anastomosis, neoterminal ileum, and colon. The patient remained on ciprofloxacin 750 mg twice weekly and metronidazole was ceased. Colonoscopy 12 months later showed very minimal ulceration affecting 5 mm of the anastomosis, no significant narrowing, and a normal neoterminal ileum.

Ciprofloxacin, a fluoroquinolone, is effective against intestinal aerobic Gram negative bacteria such as E coli, Shigella, Salmonella, and clostridial species. It is well tolerated even with prolonged use but can cause hepatotoxicity and tendon fragility. In Crohn’s disease trials, ciprofloxacin was superior to placebo in decreasing the Crohn’s disease activity index in one study but ciprofloxacin and metronidazole in combination with budesonide showed no benefit over placebo and budesonide. However, subgroup analysis of the J P Elliott, G T C Moore, S J Bell, W R Connell Department of Gastroenterology, St Vincent’s Hospital Melbourne, Melbourne, Australia

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References
A new entity of hereditary colorectal cancer
Mueller-Koch et al describe clinical and molecular evidence for a "new entity" of hereditary colorectal cancer (CRC). Clustering of CRC within families has been known for some time and it is not surprising that some such families will meet the Amsterdam criteria (AC) even though they do not carry a germline mutation in DNA mismatch repair genes. With respect to CRC, differences extend to multiplicity, anatomical site, histopathology, and DNA ploidy status. With respect to colorectal adenomas, these are more frequent but less advanced in AC positive families in which there is no evidence of a DNA mismatch repair defect. More recently it has been shown that the differences extend to the risks of developing both CRC and extracolonic cancer. The fundamental issue is whether it is reasonable to continue to use the limited set of clinical features that comprise the AC as a diagnostic label when there is clear evidence that families that meet the AC are clinically heterogeneous.

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References
A 35 year old Iranian patient presented to our clinic with chronic diarrhoea, intermittent abdominal pain, and a 10 kg weight loss over the last four months. The right lower abdomen was slightly tender at physical examination. Routine laboratory tests revealed hypochromic microcytic anaemia, an elevated erythrocyte sedimentation rate (88 mm in the first hour), and a low serum albumin of 25 g/l (normal range 35–50). Multiple ulcers with signs of scarring were detected by colonoscopy in the distal ascending colon (fig 1A).

Histological examination of biopsy specimens disclosed granulomatous disease of the ascending colon (fig 1B) but normal mucosa in the more distal colon and rectum. Despite a normal peripheral leucocyte count, peripheral CD4 lymphocytes had decreased to 17/μl (normal range 400–1800). Human immunodeficiency virus infection was excluded. However, the tuberculin test was positive, and Ziehl-Neelsen staining demonstrated acid fast bacilli in colonic biopsies (fig 1C). The left lung showed some pleural scarring on chest x ray. Ultrasound revealed slight pericardial effusion as well as some ascites. Antitubercular chemotherapy was initiated, and non-resistant Mycobacterium tuberculosis was finally cultured from colonic biopsies. Now, five years later, the patient is well, and peripheral CD4 lymphocyte count has normalised.

Endocinch treatment for GORD: where it stands

We read with great interest the article by Schierke and colleagues (Gut 2005;54:752–8) on the long term failure of endoscopic gastroplasty (Endocinch). The authors reported more than 80% of patients had lost at least one suture and only 17% had all sutures in situ after 18 months (clip device). Loss of plications has been reported both with knot1 as well as clip devices (Gut 2005;54:752–8) used for anchoring sutures but seems to be more with the later. Further studies are needed to confirm above. However, a previous study did not find a significant difference between the mean tensile failure force (tissue tear out and suture disruption) for the knot compared with the clip device anchoring technique.3 The depth of a suture seems to be an important factor in the durability of a suture. With the present size of a suction chamber in a sewing capsule after an appropriate suction an average depth of a suture would be 2.86±0.91 mm. This enable placement of most of the sutures in the submucosal layer of the stomach and some sutures may enter the muscular wall. Hence increasing the size of the suction chamber may increase the depth of suture, which may improve the durability of sutures.

The procedure has been followed up for 1–4 years in other published series. At one year of follow up, the marked improvement in gastro-oesophageal reflex disease (GORD) symptoms, quality of life, and reduced requirement for proton pump inhibitors (PPIs) using the Endocinch technique is associated with some continuing esophageal acid reflux.4 5 Those patients who did not revert to PPIs at 12 months had a significantly lower degree of acid reflux at three months than those who went back on PPIs. The reason why some patients went back on PPIs is unclear but it may relate to the higher DeMeester score in this group pre-procedure.6 Two years post-procedure follow up (n = 33) from the US multicentre study revealed a sustained significant improvement in symptom score and regurgitation. Twenty five per cent were completely off antisecretory medication and 26% were requiring less than or equal to half of their initial PPI/H2 blockers.5 In the paediatric group at 33 months post-procedure, 82% maintained their symptomatic improvement and remained off all anti reflux medications.7 Most patients with good improvement maintain their improvement at 2–4 years.8 A non-randomised comparison study between Endocinch and the gold standard laparoscopic Nissen fundoplication (LNF) revealed significant reduction in symptom and regurgitation score, requirement for antisecretory medications, and improved quality of life in both groups. However, physiological control of acid reflux was significantly better in the LNF group at the expense of a higher incidence of post-procedure dysphagia and difficulty in vomiting and belching.9

References


Tuberculous colitis

With great interest we read the tutorial by Forbes (Gut 2005;54:1156). We would like to stress that the count of CD4 lymphocytes (and possibly immunoglobulins) might be quite helpful in the differential diagnosis of chronical inflammatory bowel disease and tuberculosis, as evidenced by the following case report.

Conflict of interest: None declared.

Figure 1 (A) Colonoscopy showing multiple ulcers with signs of scarring in the distal ascending colon. (B) Histological examination of biopsy specimens of the ascending colon showed granulomatous disease. (C) Ziehl-Neelsen staining demonstrated acid fast bacilli in colonic biopsies.
Better outcome shown by Thomson and colleagues in respect of symptom improvement and oesophageal pH control was probably due to better selection which may have provided a relaxed and safe environment for taking deeper stiches. Also, they took three as compared with two pllications in all other Endocinch studies. Hence further studies are necessary to determine what modifications to this technique are required in order to produce the maximum clinical benefit and to prevent complications associated with GORD. At this stage in its development it is important that medical practitioners using Endocinch should enter their results into formal trials to assess and improve its efficacy and durability. Nevertheless, the Endocinch technique has added a new and exciting era which has the potential to improve the quality of life of patients with GORD.

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References

PM2 mutations in childhood cancer

We refer to the recent paper by Durmo et al “Family history and molecular features of children, adolescents, and young adults with colorectal carcinoma” (Gut 2005;54:1146–50).

Among other patients with early onset colorectal cancer (CRC), the authors discuss a girl with CRC onset at the age of 12 years, and a subsequent second primary tumour (glioblastoma). This patient appears to be the sister of a male Turcot syndrome patient described in 1995. However, although referred to in Durmo et al’s report, she was not explicitly stated to carry the same PM2 mutation (R134X) as her brother, and so whether her mutation was assumed or verified by Durmo et al is unclear.

More importantly, the authors have overlooked the fact that both of these siblings have since been shown to be compound heterozygotes for the PM2 mutations R134X and 2184delTC. The fact that these patients have gastroplasty on both alleles offers an explanation for the earlier observation of a high degree of microsatellite instability (MSI) in their constitutional DNA, not just in tumour DNA.

We have previously pointed out that in the childhood cancer families so far described, PM2 mutations behave recessively, the parents of the homozygous or compound heterozygous patients being, by and large, tumour free.

While other recent publications do suggest that heterozygous PM2 mutations can predispose to CRC,14 15 these mutations appear, for unknown reasons, to be less penetrant than “classical” hereditary non-polyposis colorectal cancer alleles of, for example, MLH1 or MSH2. Certainly, on the present evidence, a heterozygous PM2 mutation is unlikely to account for a childhood cancer presentation.

Indeed, given that one of the other cases described by Durmo et al was also homozygous for an MLH1 mutation, we would like to emphasize again that a childhood (as opposed to adult) presentation of CRC or other MSI positive tumour should signal the possibility of a biallelic mismatch repair defect. Demonstration of MSI in constitutional DNA would in such circumstances point directly to the likelihood of biallelic mutation of one of the mismatch repair genes, with important implications for genetic management.

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References

Epithelial cells in bone marrow: do they matter?

We read with great interest the letter of Steiner and colleagues (Gut 2005;54:1045–6). They described disseminated epithelial cells in the bone marrow of patients with colorectal adenomas. As adenomas are non-cancerous, it is questionable whether these epithelial-like cells really represent cancerous and/or non-cancerous cells. If so, the benign nature of intraepithelial neoplasia is basically challenged.

The search for metastatic disease in the bone marrow of cancer patients is an intriguing field in which many different diagnostic molecular modalities are being explored. However, the clinical impact of bone marrow micrometastatic disease is not clear. Patients with breast cancer usually develop clinically manifest bone marrow metastases and in these patients detection of this type of micrometastatic disease has been shown to have prognostic impact.3 Gastrointestinal cancers, however, relatively rarely develop overt bone marrow metastases and also the clinical impact of the detection of bone marrow micrometastases in these patients is less clear.

We studied the impact of bone marrow micrometastases in patients with oesophageal adenocarcinoma and encountered a concern which might be relevant for the interpretation of the conflicting findings, as described by Steiner et al. We obtained bone marrow samples of 20 patients who underwent a potentially curative oesophagectomy for oesophageal adenocarcinoma. Cytospins of these samples were stained with Ber-EP4 (Dako, Hamburg, Germany) and A45-B/B3 (Micromet, Munich, Germany) using the alkaline phosphatase-antialkaline phosphatase technique. In this series we found positive staining for these epithelial markers in four (20%) and five (25%) of the patients for Ber-EP4 and A45-B/B3, respectively. As a negative control group we obtained a bone marrow sample in 20 patients who underwent cardiac surgery and had no known cancerous disease. In this control group, to our surprise, we found positive stainings in three (15%) and four (20%) patients for Ber-EP4 and A45-B/B3, respectively. Positive staining in the bone marrow of patients with no known cancerous disease suggests that such results should be interpreted with caution and that these cells do not necessarily represent micrometastatic disease.

Many groups have studied micrometastatic disease for which many different detection methods have been used. Studies that have examined negative control patients have also reported positive bone marrow staining for Ber-EP4 cells in up to 10% of patients.1 7 One study focused on the use of the alkaline phosphatase-antialkaline phosphatase staining and reported positive staining in up to 42% of patients without cancer. Based on these results it was suggested that plasma cells can directly react to alkaline phosphatase.2 Morphology of the cells is another important factor in the evaluation of possible micrometastases. In fig 1 of the letter Steiner
et al, the cells do not have the morphological aspect of a tumour cell and also in other papers on micrometastases, morphology of the cells is not taken into account. In our data set, we could not detect cells in the bone marrow cytospins which had the morphological aspect of a tumour cell.

With current techniques, epithelial-like cells can not be detected in the bone marrow of many patients not known to have cancer. Probably these cells have no clinical relevance in patients with adenomas. In future studies, more attention should be paid to the morphological criteria of the cells.

Conflict of interest: None declared.

References

Symptomatic eosinophilic gastritis cured with Helicobacter pylori eradication

Eosinophilic gastritis is a disorder of unknown aetiology, characterised by eosinophilic infiltration of the gastric and intestinal mucosa and peripheral eosinophilia. To date, only two cases have reported the coexistence of Helicobacter pylori gastritis and eosinophilic gastritis. In none of these cases was a causal association between these two entities documented. 1,2 We present a case of eosinophilic gastritis cured with H pylori eradication therapy.

A 47 year old woman presented with a two month history of vomiting, nausea, and crampy abdominal pain. Her past medical history included idiopathic thrombocytopenic purpura, splenectomy at the age of 11 years, hypertension, hypothyroidism, diabetes mel- litus type II, and depression. Her medication included valtsar, atenolol, nifedipine, glizaclade, metformin hydrochloride, indapamide, and venlafaxine hydrochloride. No alcohol or tobacco use was reported.

She lived on a Greek island and did not smoke or drink alcohol. Physical examination revealed only mild diffuse epigastric and abdominal tenderness, and no signs of systemic vasculitis or connective tissue disease were present. Laboratory evaluation revealed a white blood cells count of 14 900 cells/mm3 (normal 4000–10 000) with an eosinophilic count of 2680 cells/mm3 (normal 0–800), and a normal platelet count (187 000/mm3) and haemoglobin level (12.8 g/dl). Serum alkaline phosphatase was 158 mg/dl (normal 70–105), alanine aminotransferase 38 mU/ml (normal 10–28), γ-glutamyl trans- ferase 44 mU/ml (normal 9–30), erythrocyte sedimentation rate 29 mm, and C reactive protein 9.19 mg/l (normal 0.00–6.00). Stool studies for ova and parasites and stool cultures were negative. Thyroid function tests, serum IgE, abdominal ultrasound, and computed tomography scan were normal. No findings of extra-abdominal malignancy were evident. Colonoscopy with terminal ileoscopy was normal, as was histology of the ileum and colon. Gastritis showed small erosions at the corpus, the antrum, and the duodenal bulb. Biopsies were taken from the gastric corpus, antrum, and from the second part of the duodenum. Gastric biopsies showed H pylori infection and dense eosinophilic infiltration (29 eosinophils per high power field) of the gastric mucosa, but biopsies from the 2nd–3rd parts of the duodenum were normal.

She was discharged with a diagnosis of eosinophilic gastritis and H pylori erosive gastritis, and was treated with esomeprazole (40 mg/day), amoxycillin (1 g/day), and clarithromycin (1 g/day) for seven days. No treatment was given for eosinophilia. There were no known reports implicating her medical therapies in the aetiology of her symptoms and so it was decided that she should remain on her regular medical treatment. Two months after completion of the eradication therapy repeat gastroduodenal biopsies were negative. Our patient showed no eosinophilia (five eosinophils per high power field) in the gastric mucosa, but biopsies from the 2nd–3rd parts of the duodenum were normal.

We and others have demonstrated its successful use in refractory colitis. 3 Here we report the first patient who was successfully maintained in remission during pregnancy and delivered a healthy baby.

Our patient was diagnosed with ulcerative colitis at the age of 25 years. Her first baby was delivered by Cesarean section prematurely at 29 weeks’ gestation. Frequent flare ups of her panceolitis required repeated steroid rescue and she was soon started on azathioprine. Unfortunately, she was unable to tolerate purine analogues due to hyperuricemia and chose a trial on oral tacrolimus. She was started on 0.1 mg/kg body weight oral tacrolimus, divided into two daily doses. The dose was adjusted aiming for serum trough levels of 4–6 ng/ml. Her condition improved quickly within the following weeks and complete remission was achieved. The patient was discouraged from conceiving while on tacrolimus. When weaning off tacrolimus resulted in repeated disease flare ups, she underwent granulocyte apheresis (Adacolumn) at age 27 years but was unable to attain prolonged remission without tacrolimus.

Uneventful pregnancy and neonatal outcome with tacrolimus in refractory ulcerative colitis

Tacrolimus is currently approved only in patients receiving allogeneic liver or kidney transplants. 4 We and others have demonstrated its successful use in refractory colitis. 4 Here we report the first patient who was successfully maintained in remission during pregnancy and delivered a healthy baby. Our patient was diagnosed with ulcerative colitis at the age of 25 years. Her first baby was delivered by Cesarean section prematurely at 29 weeks’ gestation. Frequent flare ups of her panceolitis required repeated steroid rescue and she was soon started on azathioprine. Unfortunately, she was unable to tolerate purine analogues due to hyperuricemia and chose a trial on oral tacrolimus. She was started on 0.1 mg/kg body weight oral tacrolimus, divided into two daily doses. The dose was adjusted aiming for serum trough levels of 4–6 ng/ml. Her condition improved quickly within the following weeks and complete remission was achieved. The patient was discouraged from conceiving while on tacrolimus. When weaning off tacrolimus resulted in repeated disease flare ups, she underwent granulocyte apheresis (Adacolumn) at age 27 years but was unable to attain prolonged remission without tacrolimus.

At the age of 31 years she became intention- ally pregnant with her second child. Sonographic malformation screening during the second trimester did not detect any fetal abnormalities. She spontaneously delivered a healthy baby girl (Apgar score 9/10/10; birth weight 3500 g; height 51 cm) at 40 weeks’ gestation. She was continued on tacrolimus throughout the pregnancy and following delivery, aiming for serum trough levels of 4–6 ng/ml, and maintained on tacrolimus. To date she is 33 years old and still in remission. Because of the unknown immedi- ate and long term side effects of tacrolimus in the newborn, we recommended refraining from breast feeding. There is no evidence of any functional impairment or developmental delay in her now two year old daughter.

This case is the first report of tacrolimus use during pregnancy for refractory ulcerative colitis. Most experience with tacrolimus in pregnancy exists with transplant patients. In a recent study, 37 female liver transplant recipients who delivered 49 babies were reported. Thirty six mothers (97%) survived the pregnancy. One patient experienced an intra-aortic arterial graft during labour died. The mean gestational period was 36.4 ± 3.2 weeks, excluding two premature
First case of paralytic intestinal ileus after double balloon enteroscopy

Double balloon enteroscopy is a new method allowing the exploration of the whole intestine by the oral or anal route, with the possibility of endoscopic intervention. We describe here the first case of enduring paralytic ileus following this technique.

Case report

A 47-year-old woman was referred to our unit for chronic and obscure undiagnosed gastroduodenal bleeding. Unremarkable conventional upper and lower endoscopies were performed twice. Small bowel follow through studies, abdominal computed tomography (CT), and pushed enteroscopy were normal. A capsule enteroscopy was performed showing three angiodyplasias in the distal jejunum, all measuring 2–3 mm. To reach them, we performed a double balloon enteroscopy which showed two of the three lesions. Electrocoagulation with an argon plasma coagulator (30 W, 1.5 J/min) was performed on both lesions. Twelve uneventful hours followed the procedure, indicating isolated motility impairment disorders. No fever or other clinical signs apart from those of intestinal occlusion were observed. An abdominal CT showed localised and moderate dilation of a few intestinal loops with normal proximal and distal ileum (Fig. 1). No complications such as pneumoperitoneum, abcess, intestinal haemorrhage, or intussusceptions were observed. Oral intake was stopped and intravenous fluids given. The clinical state remained stable but transit remained totally interrupted without passage of stool or flatus, and 2–3 litres of gastric aspirate was obtained per day. As the intestinal occlusion had not resolved by day 7, erythromycin 5 mg/kg/day was given intravenously in two doses, 30 minutes each, with disappearance of signs of occlusion within 48 hours. Total recovery was observed after four days, allowing discharge with no further events over the following five months.

Discussion

Double balloon enteroscopy was first reported by Yamamoto et al in 2001 in a series of four patients, with insertion of the endoscope as far as 30–50 cm distal to the ligament of Treitz in three cases and to the ileocecal valve in one, without any complications. Since then, two larger series of 123 and 62 patients1 have been reported, with two and no complications recorded, respectively. In the former,1 a total of 178 procedures were performed. The first complication was multiple perforations in a patient with intestinal lymphoma thought to be due to chemotherapy whereas the second complication was of spontaneously resolving postoperative fever and abdominal pain in a patient with Crohn's disease. Elsewhere, a total of eight papers2–10 reported 20 patients having DBE with only one recorded complication (post polypectomy sepsis). Two large series of 62 and 125 patients, respectively, have been published in abstract form,9,11 with no complications in the former and two in the latter. The two reported complications were intra-abdominal abscess and mild pancreatitis thought to be due to balloon inflation near the ampulla of Vater.

Two aspects are of interest in this case. Firstly, this is, to our knowledge, the first case of small bowel ileus following double balloon enteroscopy. This is of interest because the ileus appeared without the diagnosis of perforation, abscess, gastrointestinal haemorrhage, or haematoma following the procedure, indicating isolated motility impairment. Indeed, plasma argon coagulation is not known to induce an ileus lasting seven days without other complications. Therefore, it could be that the ileus was caused by the double balloon technique itself due to the pronounced stretching of the small bowel and possibly the mesentry. Secondly, it should be emphasised that conservative medical management should be tried first, and that treatment may include prokinetic agents such as erythromycin which improve motility impairment disorders.

References


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BOOK REVIEW

Atlas of Clinical Gastroenterology, 3rd Edn

“A picture is worth a thousand words”, Napoleon Bouparie. In this atlas, every picture tells a story. It is not surprising, considering the pace at which gastroenterology has moved ahead, that the third edition of this visual extravaganza is radically different from the second edition published in 1994. The chapters are generally arranged in anatomical sequence, and each chapter provides a brief anatomical introduction. Contrast barium radiology, ultrasonography, and endoscopy dominate the atlas, and there is a rich selection of histopathology of gastrointestinal diseases. There are also some nice operative photographs. However, magnetic resonance imaging scans are fewer in number and there is only a token representation of endoscopic ultrasonography. Magnetic resonance cholangiopancreatography of the biliary and pancreatic ducts is also somewhat neglected. Computed tomography (CT) scans are well represented in the hepatic and pancreaticobiliary sections. Wireless capsule endoscopy is now represented, although the pictures are not the best that may be obtained, nor extensive. Sonde enteroscopy is depicted but not the more recent double balloon enteroscopy. Virtual CT colonoscopy also makes its debut. Some of the advances in endoscopic imaging, such as zoom endoscopic pictures and confocal endoscopy, are missing.

Most common and many rare diseases are represented in a wide selection of photographs. Going through the index, some omissions are notable, such as Behcet’s disease, amyloidosis, and immunoproliferative small intestinal disease, common in some parts of the world.

Despite some of these limitations, the atlas is extremely well balanced and a true page-turner. It is a great aid to teaching by including a free accompanying CD which is easy to navigate. The CD also makes the atlas very portable, a drawback of large heavy volumes. The CD is also enhanced by inclusion of videos. The text is concise and appropriate to a visual atlas enhancing, rather than distracting, the visual appeal. It is well worth having a copy simply as a treasure chest of the specialty and for those commencing their specialist career, a superbly efficient way of increasing their clinical acumen. Some sections are truly outstanding, such as hepatic histopathology and the section on infective colitis. Paediatric gastroenterology is also represented with some outstanding contributions.

The quality of the volume is outstanding, the pictures crisp, and the colours vibrant. Hiding the figure legends is a good way of testing clinical diagnostic skills. Gastroenterology specialist nurses and endoscopy nurses also enjoy this type of learning experience and it is well worth ensuring that the volume is easily available to them.

“If I could tell the story in words, I wouldn’t need to lug around a camera”, Lewis Hine. I do hope this atlas stimulates every gastroenterologist to photographically record interesting findings, as gastroenterology is a very visual specialisation. Buy one and keep it, and it will keep its value for years, like a 1998 Mouton Rothschild.

S Ghosh

REFERENCES

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EDITOR’S QUIZ: GI SNAPSHOT

Answer
From question on page 1817
Rectoscopy showed a rectal stricture (white arrow), 3 cm cephalic to the dentate line, a rectal ulcer (blue arrow) (fig 1), and a rectovaginal fistula (yellow arrow) (fig 2), through which the vagina was visualised (black arrow) (fig 3). She was treated surgically. A diagnosis of rectovaginal fistula (RVF) secondary to ergotamine suppositories was retained as no other aetiology was found.

In the past 20 years there have been several cases of ‘‘anorectal ergotism’’ which were reported as proctitis, rectal ulcerations, rectal stenosis, and rarely RVF.1 2 Because ergotamine acts on the arterial and venous tree of the capillaries, local rather than systemic damage is more likely to be seen with suppository use.3 Ischaemia induced by vasoconstriction leads to local inflammation (‘‘anorectal ergotism’’) which may lead to RVF that can easily occur because the vagina and rectum are separated by a thin septum. Normally, anorectal ergotism resolves after discontinuation of the drug. Only rectal stricture and RVF have to be treated endoscopically or surgically.

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Severe recurrent Crohn’s disease of the ileocolonic anastomosis disappearing completely with antibacterial therapy

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