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K. Staller, M. Song, F. Grodstein, W. E. Whitehead, C. A. Matthews, B. Kuo, and A. T. Chan

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In a multicenter randomized trial, over-the-scope clips were superior to standard treatment with through-the-scope clips for recurrent peptic ulcer bleeding.

Development and Validation of a Scoring System to Predict Outcomes of Vedolizumab Treatment in Patients With Crohn's Disease

P. S. Dulai, B. S. Boland, S. Singh, K. Chaudrey, J. L. Koliani-Pace, G. Kochhar, M. P. Parikh, E. Shmidt, J. Hartke, P. Chilukuri, J. Meserve, D. Whitehead, R. Hirten, A. C. Winters, L. G. Katta, F. Peerani, N. Narula, K. Sultan, A. Swaminath, M. Bohm, D. Lukin, D. Hudesman, J. T. Chang, J. Rivera-Nieves, V. Jairath, G. Y. Zou, B. G. Feagan, B. Shen, C. A. Siegel, E. V. Loftus Jr, S. Kane, B. E. Sands, J.-F. Colombel, W. J. Sandborn, K. Lasch, and C. Cao

A Crohn's disease clinical prediction model for identifying the impact of patient characteristics on treatment outcomes with vedolizumab therapy was created and externally validated with good overall performance and accuracy.

Exposure Concentrations of Infants Breastfed by Women Receiving Biologic Therapies for Inflammatory Bowel Diseases and Effects of Breastfeeding on Infections and Development R. Matro, C. F. Martin, D. Wolf, S. A. Shah, and U. Mahadevan

Biologic medications are detected in breast milk at very small levels. No adverse outcomes, including rate of infections or effect on milestone achievement, are seen among infants exposed to biologics through breast milk.

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705 Avatrombopag Before Procedures Reduces Need for Platelet Transfusion in Patients With Chronic Liver Disease and Thrombocytopenia

N. Terrault, Y.-C. Chen, N. Izumi, Z. Kayali, P. Mitrut, W. Y. Tak, L. F. Allen, and T. Hassanein

Patients with liver disease and low platelet counts have increased bleeding risk and poor clinical outcomes following procedures. Avatrombopag predictably increased platelet counts, reducing the need for prophylactic platelet transfusions.

719 Increasing Health Care Burden of Chronic Liver Disease Compared With Other Chronic Diseases. 2004–2013

S. K. Asrani, M. Kouznetsova, G. Ogola, T. Taylor, A. Masica, B. Pope, J. Trotter, P. Kamath, and F. Kanwal See editorial on page 607.

An analysis of patients within a large medical system finds that, as compared to congestive heart failure and chronic obstructive pulmonary disease, the burden of chronic liver disease has increased.

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Model to Determine Risk of Pancreatic Cancer in Patients With New-Onset Diabetes A. Sharma, H. Kandlakunta, S. J. S. Nagpal, Z. Feng, W. Hoos, G. M. Petersen, and S. T. Chari

A risk prediction model, Enriching New-onset Diabetes for Pancreatic Cancer (ENDPAC), identifies subjects with new-onset diabetes that are at very high and very low risk for pancreatic cancer.

Risk of Neoplastic Progression in Individuals at High Risk for Pancreatic Cancer Undergoing Long-term Surveillance

M. I. Canto, J. A. Almario, R. D. Schulick, C. J. Yeo, A. Klein, A. Blackford, E. J. Shin, A. Sanyal, G. Yenokyan, A. M. Lennon, I. R. Kamel, E. K. Fishman, C. Wolfgang, M. Weiss, R. H. Hruban, and M. Goggins

Screening relatives of familial pancreatic cancer patients with EUS and MRI can detect early, asymptomatic treatable tumors, resulting in improved outcomes.

Clinical—Biliary

No Superiority of Stents vs Balloon Dilatation for Dominant Strictures in Patients With Primary Sclerosing Cholangitis

C. Y. Ponsioen, U. Arnelo, A. Bergquist, E. A. Rauws, V. Paulsen, P. Cantú, I. Parzanese, E. M. De Vries, K. N. van Munster, K. Said, O. Chazouillères, B. Desaint, A. Kemgang, M. Färkkilä, S. Van der Merwe, W. Van Steenbergen, H.-U. Marschall, P.-O. Stotzer, D. Thorburn, S. P. Pereira, and L. Aabakken

In comparing two different techniques of opening up the biliary tract of patients with primary sclerosing cholangitis, dilation with a balloon was found equally effective but safer than temporary placing of a small plastic tube.

Basic and Translational—Alimentary Tract

Older Age Reduces Upper Esophageal Sphincter and Esophageal Body Responses to Simulated Slow and Ultraslow Reflux Events and Post-Reflux Residue

L. Mei, A. Dua, M. Kern, S. Gao, F. Edeani, K. Dua, A. Wilson, S. Lynch, P. Sanvanson, and R. Shaker

Upper esophageal sphincter contracts to protect the airway during gastroesophageal reflux events. This response is weakened in the elderly and could predispose them to aspiration.

771 Selection and Application of Tissue microRNAs for Nonendoscopic Diagnosis of Barrett's Esophagus

X. Li, S. Kleeman, S. B. Coburn, C. Fumagalli, J. Perner, S. Jammula, R. M. Pfeiffer, L. Orzolek, H. Hao, P. R. Taylor, A. Miremadi, N. Galeano-Dalmau, P. Lao-Sirieix, M. Tennyson, S. MacRae, M. B. Cook, and R. C. Fitzgerald

A panel of biomarkers called microRNAs can diagnose Barrett's esophagus in samples obtained using a non-endoscopic cell collection device. Experiments in cell lines suggest how these microRNAs might cause disease.

microRNA 125a Regulates MHC-I Expression on Esophageal Adenocarcinoma Cells,

Associated With Suppression of Antitumor Immune Response and Poor Outcomes of Patients

L. Mari, S. J. M. Hoefnagel, D. Zito, M. van de Meent, P. van Endert, S. Calpe, M. d. C. Sancho Serra,

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Esophageal adenocarcinoma patients with proficient MHC-I molecule expression and a tumor immune-active microenvironment may likely benefit from treatment with immune checkpoint blockade therapy.

Selective Cytotoxicity of the NAMPT Inhibitor FK866 Toward Gastric Cancer Cells With Markers of the Epithelial-Mesenchymal Transition, Due to Loss of NAPRT J. Lee, H. Kim, J. E. Lee, S.-J. Shin, S. Oh, G. Kwon, H. Kim, Y. Y. Choi, M. A. White, S. Paik, J.-H. Cheong, and H. S. Kim

EMT-associated depletion of NAPRT elicits synthetic lethal vulnerability to NAMPT inhibition in gastric cancer.

Abnormal Small Intestinal Epithelial Microvilli in Patients With Crohn's Disease

K. L. VanDussen, A. Stojmirović, K. Li, T.-C. Liu, P. K. Kimes, B. D. Muegge, K. F. Simpson, M. A. Ciorba,

J. G. Perrigoue, J. R. Friedman, J. E. Towne, R. D. Head, and T. S. Stappenbeck

A transcriptional profiling approach using serial tissue sections of formalin-fixed, paraffin-embedded samples was used to identify and link microvilli-associated gene expression and histological alterations in Crohn's patient intestinal epithelium.

Plasma N-Glycan Signatures Are Associated With Features of Inflammatory Bowel Diseases
F. Clerc, M. Novokmet, V. Dotz, K. R. Reiding, N. de Haan, G. S. M. Kammeijer, H. Dalebout, M. R. Bladergroen,
F. Vukovic, E. Rapp, IBD-BIOM Consortium, S. R. Targan, G. Barron, N. Manetti, A. Latiano, D. P. B. McGovern,
V. Annese, G. Lauc, and M. Wuhrer

Carbohydrates attached to blood plasma proteins represent promising targets for novel approaches in the diagnosis and therapy of inflammatory bowel diseases, as found in a large replicated case-control study.

Molecular Background of Colorectal Tumors From Patients With Lynch Syndrome Associated With Germline Variants in *PMS2*

S. W. ten Broeke, T. C. van Bavel, A. M. L. Jansen, E. Gómez-García, F. J. Hes, L. P. van Hest, T. G. W. Letteboer, M. J. W. Olderode-Berends, D. Ruano, L. Spruijt, M. Suerink, C. M. Tops, R. van Eijk, H. Morreau, T. van Wezel, and M. Nielsen

The authors observed a lack of somatic CTNNB1 variants in colorectal cancers from PMS2-associated Lynch syndrome patients, possibly explaining the lower penetrance of cancer in these patients.

GABA Receptor Subtypes Regulate Stress-Induced Colon Inflammation in Mice M. Seifi, S. Rodaway, U. Rudolph, and J. D. Swinny

Psychological stress induces colonic inflammation via engagement of the intestinal GABAA receptor system.

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865 Impaired TFEB-Mediated Lysosome Biogenesis and Autophagy Promote Chronic Ethanol-Induced Liver Injury and Steatosis in Mice

X. Chao, S. Wang, K. Zhao, Y. Li, J. A. Williams, T. Li, H. Chavan, P. Krishnamurthy, X. C. He, L. Li, A. Ballabio, H.-M. Ni, and W.-X. Ding

Chronic ethanol feeding plus an acute binge decreased hepatic expression of TFEB, which is required for lysosomal biogenesis and autophagy.

Basic and Translational—Pancreas

NFκB in Pancreatic Stellate Cells Reduces Infiltration of Tumors by Cytotoxic T Cells and Killing of Cancer Cells, via Up-regulation of CXCL12

B. Garg, B. Giri, S. Modi, V. Sethi, I. Castro, O. Umland, Y. Ban, S. Lavania, R. Dawra, S. Banerjee, S. Vickers, N. B. Merchant, S. X. Chen, E. Gilboa, S. Ramakrishnan, A. Saluja, and V. Dudeja

Nuclear factor (NF)&B activity in pancreatic stellate cells promotes tumor growth by increasing expression of CXCL12, which prevents cytotoxic T cells from infiltrating the tumor and killing cancer cells.

Cigarette Smoke Induces Stem Cell Features of Pancreatic Cancer Cells via PAF1 R. K. Nimmakayala, P. Seshacharyulu, I. Jakshmanan, S. Rachagani, S. Chuah, S. Karmakar, S. Pagu

R. K. Nimmakayala, P. Seshacharyulu, I. Lakshmanan, S. Rachagani, S. Chugh, S. Karmakar, S. Rauth, R. Vengoji, P. Atri, G. A. Talmon, S. M. Lele, L. M. Smith, I. Thapa, D. Bastola, M. M. Ouellette, S. K. Batra, and M. P. Ponnusamy

Cigarette smoking increases pancreatic stemness by inducing a master stemness regulating factor, PAF1 through CHRNA7-ERK1/2-AP1 signaling, and smoke components, NNK and NNN are the major contributors for the smoking induced stemness.

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