

1	SURNAME:	Byrne	FIRST NAME:	Michael
			MIDDLE NAME(S):	Francis

2	DEPARTMENT/SCHOOL	Medicine		
3	FACULTY:	Medicine		
4	PRESENT RANK:	Clinical Professor	SINCE:	Dec 1, 2010

5. POST-SECONDARY EDUCATION

(a)

University or Institution	Degree	Subject Area	Dates
Cambridge University	MD	Doctorate of Medicine (by thesis)	2001
Cambridge University	MA (Hons)	Medical Studies/Psychology	1993/07 - 1993/12
Liverpool University	MB ChB	Clinical Medicine (medical degree)	1989/07 - 1992/06
Cambridge University	BA (Hons)	Medical Studies/Psychology	1986/07 - 1989/06

(b) Title of Dissertation and Name of Supervisor

Title of Dissertation	Supervisor
The interaction between Helicobacter pylori and cyclooxygenase in gastric and vascular models. (Accepted for the degree of Doctor of Medicine by the University of Cambridge, 2001).	Supervisor: Professor Desmond Fitzgerald and Dr. Frank Murray, Department of Clinical Pharmacology, Royal College of Surgeons in Ireland

(e) Professional Qualifications

1	Medical License, College of Physicians and Surgeons of British Columbia, 2003
2	Fellow of the Royal College of Physicians of Canada (FRCPC), 2003
3	Endoscopic Ultrasound Biopsy Course, University of Pittsburgh Medical Centre, 2002
4	Certificate of Satisfactory Completion of Specialist Training (CSCST) in Gastroenterology and General Internal Medicine - 2002, Irish Committee on Higher Medical Training
5	Gopen's Writing Workshop Accreditation, 2002
6	European Diploma of Gastroenterology, European Board of Gastroenterology accreditation, European Union of Medical Specialists, 2001
7	Medical License, North Carolina Medical Board, 2001-2003
8	European Fellow of Gastroenterology, European Union of Medical Specialists, 2001
9	Advanced Cardiac Life Support (ACLS), 2015
10	Royal College of Radiology Certificate, 1996
11	Fellow of the Royal College of Radiologists (FRCR Part 1), 1996
12	United States Medical Licensing Examination (USMLE), 1995
13	MRCP (UK) Part 2 Royal College of Physicians of Edinburgh, 1995
14	MRCP (UK) Part 1 Royal College of Physicians of Edinburgh, 1994
15	FMGEMS Part 1, 1991

6. EMPLOYMENT RECORD**(a) Prior**

University, Company or Organization	Rank or Title	Dates
University of British Columbia	Clinical Associate Professor	2003/07/01 - 2010/06/30
Duke University Medical Centre & VA Medical Centre, North Carolina, USA	Advanced Endoscopy Fellow	2001/07/01 - 2002/06/30

Beaumont Hospital, Dublin, Ireland	Locum Consultant in Gastroenterology/GIM	2001/07/01 - 2001/10/31
Beaumont Hospital/Royal College of Surgeons, Dublin, Ireland	Specialist Registrar in Gastroenterology/GIM Honorary Lecturer in Therapeutics	2000/07/01 - 2001/06/30
Royal College of Surgeons in Ireland/ Beaumont Hospital, Dublin, Ireland	Lecturer in Therapeutics & Research Fellow in Gastroenterology	1998/07/01 - 2000/06/30
Beaumont Hospital/Royal College of Surgeons, Dublin, Ireland	Registrar in Gastroenterology/GIM and Lecturer in Medicine	1997/07/01 - 1998/06/30
St. Vincent's Hospital, Dublin, Ireland	Registrar in Gastroenterology/GIM	1997/03/01 - 1997/06/30
Edinburgh Royal Infirmary, Edinburgh, UK	Specialist Registrar in Radiology	1995/10/01 - 1997/02/28
Royal North Shore Hospital, Sydney, Australia	Registrar in Medicine/Accident & Emergency	1995/05/01 - 1995/08/31
University Hospital, Queen's Medical Centre, Nottingham, UK	Senior House Officer in Medicine	1993/08/01 - 1995/04/30
Royal Liverpool University Hospital, UK	House Officer in Medicine & Surgery	1992/08/01 - 1993/07/31

(b) Present

University, Company or Organization	Rank or Title	Dates
University of British Columbia	Clinical Professor	2010/07/01 - present
Vancouver General Hospital	Co-Director, Luminal Clinical Trials Group	2009/07/01 – 2013/06/30

University of British Columbia	Director, VGH Interventional Endoscopy Fellowship Program	2007/07/01 - present
Vancouver Hospital & Health Sciences Centre (VGH & UBC-site)	Attending Gastroenterologist (Active Staff)	2003/07/01 - present
Duke University Medical Centre & VA Medical Centre, North Carolina, USA	Attending Gastroenterologist	2002/07/01 - 2003/06/30

8. TEACHING

(a) Areas of special interest and accomplishments

Accomplishments

1	I have wide experience in undergraduate teaching both in a tutorial setting and in ward-based patient-orientated setting, including formal teaching and examination of medical students. I also have experience in teaching at a postgraduate level, both medical and allied professions.
2	My role as lecturer in therapeutics in Dublin, Ireland, also included a wide range of administrative and organisational duties.
3	I continued my teaching commitments as a member of faculty in Duke University Medical Center, teaching undergraduate students and post-graduate medical residents. I had a daily commitment to the clinical education of the GI fellows and advanced endoscopy fellows.
4	I completed a 4 month, 16 session formal teaching workshop at Duke University Medical Center for faculty development in clinical teaching. This course was based on the "Train the trainer" model developed at Stanford University.
5	In my role as Clinical Professor at the University of British Columbia, I have a regular commitment to the formal teaching programs of undergraduate medical students, and junior doctors. I also continue to regularly teach students and doctors at Vancouver General Hospital.

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

Basic Research

1	In 2001, my research thesis was accepted for the degree of Doctor of Medicine by the University of Cambridge: "The interaction between Helicobacter pylori and cyclooxygenase in gastric and vascular models".
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	All of this work was performed in the Department of Clinical Pharmacology in the Royal College of Surgeons in Ireland.
2	I now have considerable experience in the study of cyclooxygenase in both gastric biopsies and cell lines. I am very familiar with the techniques used in cell culture, mass spectrometry, immunohistochemistry, ELISA, PCR, Western blotting and apoptosis/cell proliferation assessment. I have also spent a significant amount of time working in the platelet biology field (in relation to H. pylori induced platelet aggregation) and have experience in measurement of platelet aggregation, flow cytometry, and confocal microscopy. For my work with cyclooxygenase and with platelets, I have performed many transient transfection studies with COX promoter constructs and integrin constructs. Having spent some time with Dr John Atherton in the department of gastroenterology in Queen's Medical Centre, Nottingham, I am competent in the techniques for culture of Helicobacter pylori. The laboratory in which I worked is well equipped consisting of 5,000 sq ft of modern labs, including cell culture, immunohistochemistry, immunofluorescence, mass spectrometry (quadropole electrospray), flow cytometry, an automated DNA sequencing/genetic analysis unit and facilities for molecular biology. The personnel in the department include Post-Doctoral researchers, research assistants, technicians and post-graduate students.
3	I gained considerable experience in writing research grant proposals and was successful in receiving three grants (£130,000 total for salary and consumables) to support this work.
4	I continued to act as a co-supervisor (on an advisory basis when I moved to the USA) to a PhD student (Paul Corcoran) in the Dept of Clinical Pharmacology, RCSI. Paul was awarded his PhD in 2004.

Clinical Trials

1	Principal Investigator on the Schering OPTIMIST trial.
2	<p>Sub-Investigator on the following:</p> <ul style="list-style-type: none"> • Abbott M11-271 (CALM) Algorithm-controlled management of CD with prednisone, adalimumab, ADA and AZA combo. • Abbott P10-789 (VISION) Validation of the SPACE questionnaire • Centocor REMICADECRD3001(PREVENT)--Remicade post-resection for prevention of CD recurrence • Centocor CNTO12753002--ustekinumab for CD for patients who have failed/intolerant to conventional therapy • and Centocor CNTO12753003-Maintenance study) • Pfizer B2421003--Anrukinzumab for UC patients • Pfizer A7281006 (OPERA)--anti-Madcam for CD patients who have failed/intolerant to conventional therapy • Pfizer A7281007 Open-Label study for A7281006 patients • Amgen 20110166--AMG 181 for patients with UC who have failed/intolerant to conventional therapy • Amgen 20110232--AMG 181 for patients with CD who have failed/intolerant to conventional therapy • Cook Medical HALT (Hemospray)

11. SERVICE TO THE COMMUNITY**(a) Memberships on scholarly societies, including offices held and dates**

1	Member of the Royal College of Physicians of Edinburgh (MRCP UK), 1995
2	British Society of Gastroenterology
3	American Gastroenterology Association
4	Irish Society of Gastroenterology
5	American Medical Association
6	Royal College of Physicians of Canada
7	American Society of Gastrointestinal Endoscopy
8	American College of Gastroenterology

9	European Board of Gastroenterology
10	College of Physicians and Surgeons of British Columbia
11	British Columbia Medical Association
12	Canadian Medical Association
13	Canadian Association of Gastroenterology
14	British Columbia Society of Gastroenterology

(b) Memberships on other societies, including offices held and dates

(c) Memberships on scholarly committees, including offices held and dates

1	National Endoscopy Committee, Canadian Association of Gastroenterology, 2005-2008
2	Third Medical Year Review Group, Royal College of Surgeons in Ireland, 1998-2000
3	Clinical Curriculum and Examinations Committee, RCSI, 1998-2000
4	Irish Society of Gastroenterology Registrars Group, Treasurer, 1998-1999
5	Irish Society of Gastroenterology Registrars Group, Member, 1997-2001

(d) Memberships on other committees, including offices held and dates

1	LMIIF Review of Gastrointestinal Services in the Lower Mainland Committee Member, 2010-2011
2	Colorectal Cancer Screening Study Committee, 2008-present
3	CAG Certification (of Endoscopy Units) Program committee member, 2008-2010
4	Invited to VANOC medical specialists programme for 2010 Olympics, 2007-2010
5	Vancouver Annual Gastroenterology Forum Committee, 2005-present
6	Claims Review Committee, Healthcare Benefit Trust, British Columbia, 2005-present

University of British Columbia

Publications Record

Date:

Verification Initial:

1	SURNAME: Byrne	FIRST NAME: Michael
		MIDDLE NAME(S): Francis

01. Refereed Publications
(a) Journals
Laghari MH, Byrne MF, Chatur N, Yau A, Donnellan F. A bleeding vallecular varix, visualized by GI endoscopy, confirmed with CT angiography, and treated with sclerotherapy and cyanoacrylate. VideoGIE. 2017 Nov 11;3(1):20-22. doi: 10.1016/j.vgie.2017.09.011. eCollection 2018 Jan. PubMed PMID: 29905179; PubMed Central PMCID: PMC5965717.
Byrne MF, Shahidi N, Rex DK. Will Computer-Aided Detection and Diagnosis Revolutionize Colonoscopy? Gastroenterology. 2017 Dec;153(6):1460-1464.e1. doi: 10.1053/j.gastro.2017.10.026. Epub 2017 Oct 31. PubMed PMID: 29100847.
Byrne MF, Chapados N, Soudan F, Oertel C, Linares Pérez M, Kelly R, Iqbal N, Chandelier F, Rex DK. Real-time differentiation of adenomatous and hyperplastic

	<p>diminutive colorectal polyps during analysis of unaltered videos of standard colonoscopy using a deep learning model. Gut. 2017 Oct 24. pii: gutjnl-2017-314547. doi: 10.1136/gutjnl-2017-314547. [Epub ahead of print] PubMed PMID: 29066576.</p>
	<p>O'Connor K, Cheriyan DG, Li-Chang HH, Kalloger SE, Garrett J, Byrne MF, Weiss AA, Donnellan F, Schaeffer DF. Gastrointestinal Endoscopic Ultrasound-Guided Fine-Needle Aspiration Biopsy Specimens: Adequate Diagnostic Yield and Accuracy Can Be Achieved without On-Site Evaluation. Acta Cytol. 2015;59(4):305-10. doi: 10.1159/000439398. Epub 2015 Sep 5. PubMed PMID: 26339900.</p>
	<p>Prichard D, Byrne MF. Endoscopic ultrasound guided biliary and pancreatic duct interventions. World J Gastrointest Endosc. 2014 Nov 16;6(11):513-24. doi: 10.4253/wjge.v6.i11.513. Review. PubMed PMID: 25400865; PubMed Central PMCID: PMC4231490.</p>
	<p>Wong F, Rayner-Hartley E, Byrne MF. Extraintestinal manifestations of Helicobacter pylori: a concise review. World J Gastroenterol. 2014 Sep 14;20(34):11950-61. doi: 10.3748/wjg.v20.i34.11950. Review. PubMed PMID: 25232230; PubMed Central PMCID: PMC4161781.</p>
	<p>Cheriyan DG, Byrne MF. Propofol use in endoscopic retrograde cholangiopancreatography and endoscopic ultrasound. World J Gastroenterol. 2014 May 14;20(18):5171-6. doi: 10.3748/wjg.v20.i18.5171. Review. PubMed PMID: 24833847; PubMed Central PMCID: PMC4017032.</p>
	<p>Chan CH, Donnellan F, Byrne MF, Coss A, Haque M, Wiesenger H, Scudamore CH, Steinbrecher UP, Weiss AA, Yoshida EM. Response to endoscopic therapy for biliary anastomotic strictures in deceased versus living donor liver transplantation.</p>

	Hepatobiliary Pancreat Dis Int. 2013 Oct;12(5):488-93. PubMed PMID: 24103278.
	Wong JC, Taylor DC, Byrne MF. Aortoduodenal fistula: not always bleeding. Can J Gastroenterol. 2013 Aug;27(8):444. PubMed PMID: 23964352; PubMed Central PMCID: PMC3956035.
	Byrne MF, Chan CHY, Branch MS, Jowell PS, Baillie J. Repeat Procedures Within 30 days in Patients Stented for Malignant Distal Biliary Strictures: Experience of 508 Patients at a Tertiary Referral Center. Gastroenterology Research, Volume 5, Number 2, April 2012, pages 57-62.
	Donnellan F, Enns R, Kim E, Lam E, Amar J, Telford J, Byrne MF. Outcome of repeat ERCP after initial failed use of a needle knife for biliary access. Dig Dis Sci. 2012 Apr; 57 (4) :1069-71.
	Chin M, Levy RD, Yoshida EM, Byrne MF. Sitaxsentan-induced acute severe hepatitis treated with glucocorticoid therapy. Can Respir J. 2012 Jan-Feb; 19 (1) :e1-2.
	Donnellan F, Byrne MF. Prevention of Post-ERCP Pancreatitis. Gastroenterol Res Pract. 2012; 2012:796751.
	Chin MW, Byrne MF. Update of cholangioscopy and biliary strictures. World J Gastroenterol. 2011 Sep 14;17(34):3864-9. doi: 10.3748/wjg.v17.i34.3864. Review. PubMed PMID: 22025874; PubMed Central PMCID: PMC3198015.
	Chan CH, Donnellan F, Chan GC, Byrne MF. A novel two-step approach for retrieval of an impacted biliary extraction basket. Case Rep Gastrointest Med. 2012; 2012:435050.
	Kim E, Byrne MF, Donnellan F. Endoscopic mucosal resection of esophageal squamous papillomatosis. Can J Gastroenterol 2012, vol 26.
	Kim EY, McLoughlin M, Lam EC, Amar J, Byrne M, Telford J, Enns R. Retrospective analysis of radiation exposure during endoscopic retrograde cholangiopancreatography: Critical determinants. Can J Gastroenterol October 2011, Volume 25 Issue 10: 555-559.

	Donnellan F, Moosavi S, Byrne MF. Colonic stenting in 2011. <i>Minerva Gastroenterol Dietol.</i> 2011 Jun;57(2):193-204.
	Al-Ali J, Pawlowska M, Coss A, Svarta S, Byrne M, Enns R. Endoscopic management of gastric variceal bleeding with cyanoacrylate glue injection: Safety and efficacy in a Canadian population. 2010 Oct;24(10):593-6.
	Kim E, McLoughlin M, Lam EC, Amar J, Byrne M, Telford J, Enns R. Prospective analysis of fluoroscopy duration during ERCP: critical determinants. <i>Gastrointest Endosc.</i> 2010 Jul;72(1):50-7.
	Lynd LD, Najafzadeh M, Colley L, Byrne MF, Willan AR, Sculpher MJ, Johnson FR, Hauber AB. Using the incremental net benefit framework for quantitative benefit-risk analysis in regulatory decision-making--a case study of alosetron in irritable bowel syndrome. <i>Value Health.</i> 2010 Jun-Jul;13(4):411-7.
	Cheung J, Sawisky G, Enns R, Byrne MF, Zhu Q, Wong CK. Practices in peptic ulcer bleeding controversies among university-versus nonuniversity-affiliated gastroenterologists. <i>Can J Gastroenterol.</i> 2010 Apr;24(4):261-5.
	Coss A, Zhou C, Byrne MF, Weiss AA. Relapse of multiple myeloma presenting with biliary obstruction. <i>Can J Gastroenterol.</i> 2010 Apr;24(4):237-8.

	Lynd LD, Najafzadeh M, Colley L, Byrne MF, Willan AR, Sculpher MJ, Johnson FR, Hauber AB. Using an incremental net-benefit framework for quantitative benefit-risk analysis in regulatory decision making - a case study of alosetron in irritable bowel syndrome. <i>Value Health</i> . 2009 Sep 10.
	Byrne MF, McLoughlin MT, Mitchell RM, Gerke H, Kim K, Pappas TN, Branch MS, Jowell PS, Baillie J. For patients with predicted low risk for choledocholithiasis undergoing laparoscopic cholecystectomy, selective intraoperative cholangiography and postoperative endoscopic retrograde cholangiopancreatography is an effective strategy to limit unnecessary procedures. <i>Surg Endosc</i> . 2009 Sep;23(9):1933-7.
	Coss A, Byrne MF. Preoperative biliary drainage in malignant obstruction: indications, techniques, and the debate over risk. <i>Curr Gastroenterol Rep</i> . 2009 Apr;11(2):145-9.
	Coss A, Zhou C, Byrne MF, Weiss AA. Relapse of multiple myeloma presenting with biliary obstruction. <i>Canadian Journal of Gastroenterology</i> . 2009 (in press).
	Al Ali J, Monk P, Byrne MF. Pancreatic pseudocyst with fistula to the common bile duct resolved by combined biliary and pancreatic stenting-A case report and literature review. <i>Canadian Journal of Gastroenterology</i> 2009 Aug;23(8):557-9.
	Cheung J, Sawisky G, Enns R, Byrne MF, Zhu Q, Wong CKW. Practices in Peptic Ulcer Bleeding Controversies Among University versus Non-University Affiliated Gastroenterologists. <i>Canadian Journal of Gastroenterology</i> 2009 (in press).
	Byrne MF, McLoughlin MT, Mitchell RM, Gerke H, Pappas TN, Branch MS, Jowell PS, Baillie J. The fate of patients who undergo "preoperative" ERCP to clear known or suspected bile duct stones. <i>Surg Endosc</i> . 2009; 23 (1): 74-9.
	Byrne MF. Management of benign biliary strictures. <i>Gastroenterology and hepatology</i> 2008; 4(10):694-7.
	Farrah M, McLoughlin MT, Byrne MF. "ERCP in the Management of Benign Biliary Strictures" for <i>Current Gastroenterology Reports</i> 2008;10(2):150-6.
	Wiesinger HAR, Shah J, White A, Yoshida EM, Frolich J, Sirrs S, Gill S, Byrne MF. Liver Biochemistry Abnormalities in a Quaternary Care Lipid Clinic Database. <i>Annals of Hepatology</i> 2008; 7: 63-66.
	Bressler B, Law JK, Al Nahdi Sheraisher N, Atkinson K, Byrne MF, Chung HV, Fishman M, Partovi N, Pearson D, Penner R, Enns RA. The use of infliximab for treatment of hospitalized patients with acute severe ulcerative colitis. <i>Can J Gastroenterol</i> . 2008 Nov;22(11):937-40.
	McLoughlin MT, Byrne MF. Endoscopic stenting: where are we now and where can we go? <i>World J Gastroenterol</i> . 2008 Jun 28;14(24):3798-803.

	Byrne MF, Chiba N, Singh H, Sadowski DC; Clinical Affairs Committee of the Canadian Association of Gastroenterology. Propofol use for sedation during endoscopy in adults: a Canadian Association of Gastroenterology position statement. <i>Can J Gastroenterol</i> . 2008 May;22(5):457-9.
	Farah M, McLoughlin M, Byrne MF. Endoscopic retrograde cholangiopancreatography in the management of benign biliary strictures. <i>Curr Gastroenterol Rep</i> . 2008 Apr;10(2):150-6.
	Apiratpracha W, Yoshida EM, Scudamore CH, Weiss A, Byrne MF. Chronic Pancreatitis: A Previously Unreported Sequelae of Acute Fatty Liver of Pregnancy. <i>Hepatobiliary and Pancreatic Diseases International</i> 2008; 7: 101-104.
	Zandieh I, Byrne MF. Autoimmune pancreatitis: A review. <i>World J Gastroenterol</i> . 2007;13(47):6327-32.
	Corcoran PA, Atherton JC, Kerrigan SW, Wadstrom T, Murray FE, Peek RM, Fitzgerald DJ, Cox DM, Byrne MF. The effect of different strains of <i>Helicobacter pylori</i> on platelet aggregation. <i>Can J Gastroenterol</i> . 2007;21(6):367-70.
	Manning DS, Sheehan KM, Byrne MF, Kay EW, Murray FE. Cyclooxygenase-2 expression in chronic hepatitis C and the effect of interferon alpha treatment. <i>J Gastroenterol Hepatol</i> . 2007;22(10):1633-7.
	Ho JK, Mahmoudi N, Al-Ali J, Yoshida EM, Byrne MF. Duodenal Varices: A Rare Manifestation of Portal Hypertension. <i>Internet Journal of Gastroenterology</i> 2007; 5.
	Gerke H, Jaffe TA, Mitchell RM, Byrne MF, Stiffler HL, Branch MS, Baillie J, Jowell PS. Endoscopic ultrasound and computer tomography are inaccurate methods of classifying cystic pancreatic lesions. <i>Dig Liver Dis</i> . 2006;38:39-44.
	Cox D, Maree AO, Dooley M, Conroy R, Byrne MF, Fitzgerald DJ. Effect of enteric coating on antiplatelet activity of low-dose aspirin in healthy volunteers. <i>Stroke</i> . 2006 Aug;37(8):2153-8.
	Byrne MF. Nonanesthesiologist-administered propofol sedation in endoscopic practice. <i>Gastroenterol Hepatol</i> . 2006;2(6):416-418.
	Ho JK, Byrne MF. What's Up in GERD? <i>Canadian Journal of Diagnosis</i> 2005; 22 (3): 87-89.
	Byrne MF, Power DG, Keeling AN, Kay E, Murray FE, Patchett SE. Combined terminal ileoscopy and biopsy is superior to small bowel follow-through in detecting terminal ileal pathology. <i>Dig Liver Dis</i> . 2004 Feb;36(2):147-52.
	Sheehan KM, Byrne MF, Murray FE. The seroprevalence of <i>Helicobacter pylori</i> in an

	Irish university student population. <i>J Infect.</i> 2004 Apr;48(3):283-4.
	Gerke H, Byrne MF, Xie HB, Paulson EK, Tyler DS, Baillie J, Jowell PS. A wolf in sheep's clothing: a non-functioning islet cell tumor of the pancreas masquerading as a microcystic (serous cystic) adenoma. <i>Jop.</i> 2004;5:225-230.
	Gerke H, Byrne MF, Stiffler HL, Obando JV, Mitchell RM, Jowell PS, Branch MS, Baillie J. Outcome of endoscopic minor papillotomy in patients with symptomatic pancreas divisum. <i>Jop.</i> 2004;5:122-131.
	Sheehan KM, Cahill RA, McGreal G, Steele C, Byrne MF, Kirwan WO, Kay EW, Fitzgerald DJ, Redmond HP, Murray FE. Cyclooxygenase-2 expression in primary human colorectal cancers and bone marrow micrometastases. <i>Dig Liver Dis.</i> 2004;36:392-397.
	Sheehan KM, O'Connell F, O'Grady A, Conroy RM, Leader MB, Byrne MF, Murray FE, Kay EW. The relationship between cyclooxygenase-2 expression and characteristics of malignant transformation in human colorectal adenomas. <i>Eur J Gastroenterol Hepatol.</i> 2004;16:619-625.
	Corcoran PA, Byrne MF. Is the host responsible? -- the role of the immune system in <i>Helicobacter pylori</i> infection. <i>Med Hypotheses.</i> 2004;62(1):95-6.
	Mitchell RM, Byrne MF. Acute Colonic Pseudo-obstruction (Ogilvie's syndrome). <i>Emergency Medicine</i> 36(4):27-30, 2004.
	Gerke H, White R, Byrne MF, Stiffier H, Mitchell RM, Hurwitz HI, Morse MA, Branch MS, Jowell PS, Czito B, Clary B, Pappas TN, Tyler DS, Baillie J. Complications of pancreaticoduodenectomy after neoadjuvant chemoradiation in patients with and without preoperative biliary drainage. <i>Dig Liver Dis.</i> 2004;36:412-418.
	Byrne MF, Mitchell RM, Gerke H, Goller S, Stiffler HL, Golioto M, Branch MS, Jowell PS, Baillie J. The need for caution with topical anesthesia during endoscopic procedures, as liberal use may result in methemoglobinemia. <i>J Clin Gastroenterol.</i> 2004;38:225-229.
	Byrne MF, Gerke H, Mitchell RM, Stiffler HL, McGrath K, Branch MS, Baillie J, Jowell PS. Yield of endoscopic ultrasound-guided fine-needle aspiration of bile duct lesions. <i>Endoscopy.</i> 2004;36:715-719.
	Byrne MF, Baillie J. The use of propofol during endoscopy. <i>Gastroenterology</i> 2003; 124 (4): 1162-1163.
	Baillie J, Byrne MF. ERCP- preparation, position, and instrumentation. <i>Techniques in Gastrointestinal Endoscopy</i> 2003; 5(1): 3-10.

	Byrne MF, Jowell P. ERCP-methods of tissue sampling. <i>Techniques in Gastrointestinal Endoscopy</i> 2003; 5(1): 27-34.
	Byrne MF, Agrawal NM. A rationale for appropriate use of selective cyclooxygenase-2 inhibitors instead of NSAIDs based on risk factors for adverse gastrointestinal events. <i>Evidence Based Gastroenterology</i> 2003;4(2):39-40.
	Byrne MF, Mitchell RM, Baillie J. Management of ingested foreign bodies. <i>Emergency Medicine</i> 2003; 35(5): 55-58.
	Bohra S, Byrne MF, Smyth C, Manning D, Patchett SE, Murray FE. An audit of consultations in a teaching hospital gastroenterology service. <i>Irish Medical Journal</i> 2003;96(9).

	Byrne MF. Primary screening with colonoscopy for colorectal cancer: a targeted algorithm? <i>Am J Gastroenterol.</i> 2003 Dec;98(12):2587-9.
	Byrne MF, Murphy JF, Corcoran PA, Atherton JC, Sheehan KM, Cox D, Murray FE, Fitzgerald DJ. Helicobacter pylori induces cyclooxygenase-1 and cyclooxygenase-2 expression in vascular endothelial cells. <i>Scand J Gastroenterol.</i> 2003 Oct;38(10):1023-30.
	Gerke H, Byrne MF, Jowell PS. Unusual finding in a patient with pancreas divisum and abdominal pain. <i>MedGenMed.</i> 2003 Jul 30;5(3):14.
	Byrne MF, Royston D, Patchett SE. Association of common variable immunodeficiency with atypical collagenous colitis. <i>Eur J Gastroenterol Hepatol.</i> 2003 Sep;15(9):1051-3.
	Byrne MF, Suhocki P, Mitchell RM, Pappas TN, Stiffler HL, Jowell PS, Branch MS, Baillie J. Percutaneous cholecystostomy in patients with acute cholecystitis: experience of 45 patients at a US referral center. <i>J Am Coll Surg.</i> 2003 Aug;197(2):206-11.
	Mitchell RM, Byrne MF. Biliary emergencies: pancreatitis, cholangitis, and more. <i>Semin Gastrointest Dis.</i> 2003 Apr;14(2):77-86.
	Byrne MF, Baillie J. Predicting the likelihood of therapeutic ERCP. A suggested 'model' to limit the number of purely diagnostic ERCPs. <i>Dig Liver Dis.</i> 2003 Jul;35(7):458-60.
	Byrne MF, Kerrigan SW, Corcoran PA, Atherton JC, Murray FE, Fitzgerald DJ, Cox DM. Helicobacter pylori binds von Willebrand factor and interacts with GPIb to induce platelet aggregation. <i>Gastroenterology.</i> 2003 Jun;124(7):1846-54.
	Mitchell RM, Byrne MF, Baillie J. Colonoscopy or barium enema for population colorectal cancer screening? <i>Dig Liver Dis.</i> 2003 Apr;35(4):207-11.
	Mitchell RM, Byrne MF, Baillie J. Pancreatitis. <i>Lancet.</i> 2003 Apr 26;361(9367):1447-55.
	Byrne MF, Chong HI, O'Donovan D, Sheehan KM, Leader MB, Kay E, McCormick PA, Broe P, Murray FE, McCormack A. Idiopathic cholangiopathy in a biliary cast syndrome necessitating liver transplantation following head trauma. <i>Eur J Gastroenterol Hepatol.</i> 2003 Apr;15(4):415-7.
	Sheehan KM, O'Donovan DG, Fitzmaurice G, O'Grady A, O'Donoghue DP, Sheahan K, Byrne MF, Conroy RM, Kay EW, Murray FE. Prognostic relevance of Fas (APO-1/CD95) ligand in human colorectal cancer. <i>Eur J Gastroenterol Hepatol.</i> 2003 Apr;15(4):375-80.

	Byrne MF, McVey G, Royston D, Patchett SE. Association of Clostridium difficile infection with collagenous colitis. J Clin Gastroenterol. 2003 Mar;36(3):285.
	Shah AA, Byrne MF, Cullen L, Walsh T, Fitzgerald DJ, Murray FE. Effect of H. pylori infection on the expression of cyclooxygenase-2 in human gastric mucosa. Prostaglandins Leukot Essent Fatty Acids. 2003 Jan;68(1):1-8.
	Byrne MF. Primary screening for colorectal cancer using colonoscopy: a targeted algorithm? American Journal of Gastroenterology 2003;98(12):2587-2589.
	Bohra S, Byrne MF, Manning D, Smyth C, Patchett SE, Murray FE. A prospective analysis of inpatient consultations to a gastroenterology service. Ir Med J. 2003 Oct;96(9):263-5.
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02. Non-refereed Publications

	(a) Journals
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	(b) Conference Proceedings
1	Chan CHY, Donnellan F, Byrne MF, Coss A, Scudamore CH, Steinbrecher UP, Weiss A, Yoshida EM. Endoscopic management of anastomotic strictures in deceased versus living donor liver transplantation. DDW, May 2012. Poster.
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3	Donnellan F, Enns R, Kim E, Lam E, Amar J, Telford J, Byrne MF. Outcome of repeat ERCP after initial failed use of a needle knife for biliary access. Poster Presentation, DDW, Chicago, 2011.
4	Donnellan F, Byrne MF, Moosavi S, Lam E, Amar J, Telford J, Enns R. Efficacy and safety of endoscopic balloon sphincteroplasty for removal of large biliary duct stones. Poster Presentation, CDDW, Vancouver, 2011.
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1	Chan CHY, Donnellan F, Coss A, Kim E, Scudamore CH, Steinbrecher UP, Weiss A, Yoshida EM, Byrne MF. Characteristics and outcomes of Early versus late Anastomotic biliary Strictures in Liver Transplantation. DDW 2012.
2	<p>Styilet Use does not affect Adequacy of Specimen of Pancreatic EUS FNA: A prospective, single blinded, randomized, control trial.</p> <p>Chin MW, Coss A, McLoughlin M, Byrne M, Enns RA, Telford JJ, Lam EC. Styilet Use does not affect Adequacy of Specimen of Pancreatic EUS FNA: A prospective, single blinded, randomized, control trial. Presented at DDW 2010. Gastroenterology</p>

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	(c) Other
	Review
1	Chin MW, Byrne MF. Update of cholangioscopy and biliary strictures. <i>World J Gastroenterol.</i> 2011 Sep 14;17(34):3864-9. Review.

	03. Books
	(c) Chapters
1	Tso M, Wu E, Farrah M, Yoshida EM, Byrne MF, Li G. Gastroenterology. In: <i>Essentials for the Canadian Medical Licensing Exam.</i> Jeeshan Chowdry, Shaheed Merani (Ed). Wolters Kluwer/Lippincott Williams & Wilkins Inc. Philadelphia PA. 2009, p218-266. (invited book chapter).
2	Micames C, Byrne MF, Baillie J. Lower Gastrointestinal Bleeding. In Bayless TM and Diehl AM eds. <i>Advanced Therapy of Gastroenterology and Liver Disease</i> 2004.
3	Byrne MF, Mitchell RM, Baillie J. Complications of Endoscopy. In Johnson LR, ed. <i>Encyclopedia of Gastroenterology</i> , Academic Press, CA, 2003.
4	Byrne MF, Baillie J. Acute pancreatitis: pancreatic fluid collections and pseudocysts. In Forsmark CE and Wu G, eds. <i>Pancreatitis and its complications.</i> Humana Press, NJ, 2003.
5	Byrne MF, Murray FE. Gallstones in intestinal failure. In Nightingale JMD, ed. <i>Intestinal Failure.</i> pp 213-226. Greenwich Medical Media Ltd, London, 2000.

	07. Other Works
	Media Presentations/Publications
1	Byrne MF. Best Health magazine (a Canadian Reader's Digest publication). The best remedies for constipation. October 2012.
2	Buy-o-logic, Oprah Winfrey Network. Televised colonoscopy-procedure performed by MF Byrne. June 2012.
3	Byrne MF. CTV for the Rhonda Low segment on "GI stents treat blockages in the colon prior to colon surgery – or in other areas of the GI tract". Mayo Clinic Research Shows Minimally Invasive Treatment for Bowel Obstruction is Effective. Sept 2010 .
4	Vancouver Sun article, November 2006, on approval by Health Canada of Remicade for Ulcerative Colitis, "a new therapy for a devastating disease.
5	Work on H. pylori and platelet aggregation was the focus of a media release at a news conference at the American Heart Association in New Orleans in November 2000 and was reported by CNN, USA Today, and several other media publications. This work was also the lead article in the "Science Today" section in the Irish Times in November 2000.
6	Review article on Pancreatitis published in the Lancet 2003 was highlighted by MSNBC.

AI-specific publications/presentations/media by Dr Michael Byrne

AI publications

- **Byrne MF, et al.** Artificial Intelligence and capsule endoscopy—is the truly “smart” capsule nearly here? **Gastrointestinal Endoscopy**, Aug 2018 (in press)
- **Byrne MF, Rex DK, et al.** Real-time differentiation of adenomatous and hyperplastic diminutive colorectal polyps during analysis of unaltered videos of standard colonoscopy using a deep learning model. *Gut*. 2017 Oct 24. pii: gutjnl-2017-314547
- **Byrne MF, Shahidi N, Rex DK** - Will Computer-Aided Detection and Diagnosis Revolutionize Colonoscopy? **Gastroenterology** 2017 Dec;153(6):1460-1464

- **Byrne MF, et al.** - Artificial Intelligence (AI) in Endoscopy–Deep Learning for Optical Biopsy of Colorectal Polyps in Real-Time on Unaltered Endoscopic Videos. **Gastrointestinal Endoscopy**, May 2017 (abstract)
- **Byrne MF, Rex DK, et al** - Artificial intelligence (AI) in endoscopy-deep learning for optical biopsy of colorectal polyps in real-time on unaltered endoscopic videos. **United European Gastroenterol J** 2016; 4: A155 (abstract)
- **Byrne MF, et al.** Real-time artificial intelligence “full colonoscopy workflow” for automatic detection followed by optical biopsy of colorectal polyps. **Gastrointestinal Endoscopy**, June 2018 (abstract)

DDW 2018 Presentations

- **Computer aided optical diagnosis of polyps – Dr. Michael Byrne** – WEO Colorectal Cancer Screening Committee Expert Working Group invitation to speak on the state of CAD in Endoscopy
- **Deep Learning for Real-Time Histologic Differentiation – Dr. Michael Byrne** – WEO Colorectal Cancer Screening Committee Meeting invitation to speak on the application of Deep Learning for real-time colon polyp differentiation
- **Advance Endoscopic Imaging in 2018 – Dr. Michael Byrne** – ASGE Invited State of the Art Lecture to discuss the application of Deep Learning techniques to medical image analysis
- **Automated characterization of colorectal lesions using dual-focus magnifying endoscope – Dr. Michael Byrne** – Japan Agency for Medical Research and Development (AMED) sponsored invitation to speak on the application of AI and Deep Learning to the automated characterization of colorectal lesions

Upcoming 2018 Presentations

- AI med talks on optical biopsy and cloud data. **AI Med, London, September 2018**
- Real-time artificial intelligence “full colonoscopy workflow” for automatic detection followed by optical biopsy of colorectal polyps. **UEGW, Vienna. October 2018**
- AGA CRC committee invited talk, **Washington DC, December 2018**

Invited Lectures

- UEGW, Vienna, 2016. Artificial Intelligence in endoscopy--deep learning for optical biopsy of colorectal polyps in real-time on unaltered endoscopic videos.
- Portsmouth Advanced Endoscopy Symposium, 2016 . Computer Assisted Diagnosis (CAD) for Polyps: Computer vs. Human? (Speaker and also international faculty member)
- UBC Journal Club, 2016. AI in Gastroenterology.
- 1st Conference on Computer-Aided Diagnosis for Colonoscopy (Professor Kudo), DDW 2017 Chicago. Deep Learning for Optical Biopsy of Colon Polyps in non-magnification colonoscopy.
- The 13th Magnifying endoscopy conference (Professor Kudo), UEGW 2017 (Barcelona). Will artificial intelligence revolutionize colonoscopy?
- Invitation from Image Enhanced Endoscopy (IEE) working group of the CRC screening committee (part of the WEO---World Endoscopy Organization) to talk on"computer aided polyp diagnosis" at DDW 2018.
- State of the Art Lecture (SOTA) on "Advanced Endoscopic Imaging in 2018"---upcoming lecture at DDW, Washington DC, June 2018

Media/Citations

- <http://www.endoscopy-campus.com/en/literatur/artificial-intelligence-and-polyp-differentiation/>
- <http://www.gastroendonews.com/Article/PrintArticle?articleID=46584>
- **Channel 4** documentary film about AI entitled "How to build a human" with our AI colon polyp solution. <http://www.channel4.com/info/press/news/humans-star-gemma-chan-investigates-the-world-of-a-i>
- Podcast, Artificial Intelligence in Medicine. [aimedicinenews.com](http://www.aimedicinenews.com)
- SU Canada Summit - Vancouver Satellite Event: Exponential Technologies in Health. <https://www.youtube.com/watch?v=1h5EVSUo2q4&feature=share>