

## CURRICULUM VITAE

### Kulwinder S. Dua MD

**Professor**  
**Department of Medicine**  
**Division of Medicine Gastroenterology and Hepatology**  
**D.Sc., F.A.C.P, F.R.C.P. (Edinburgh), F.R.C.P. (London), M.A.S.G.E**  
**Professor, Department of Medicine, and Pediatrics**  
**Professor, Graduate School of Medical Sciences**  
**Chief, Division of Gastroenterology and Hepatology, VAMC**  
**Director of Advanced Endoscopy Program**  
**Medical College of Wisconsin, Milwaukee, U.S.A.**

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#### EDUCATION:

1969 - 1971 All India Higher Secondary Education, Delhi, India  
1972 B.Sc. I, Institute of Science, Nagpur University, Nagpur, India  
1972 - 1976 M.B.B.S. (M.D.), Nagpur University, Nagpur, India  
1978 - 1980 DSc, Nagpur University, Nagpur, India

#### POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

1976 - 1977 Rotating Internship, Nagpur University, India  
1978 - 1979 Resident House Officer, Internal Medicine, Nagpur University, India  
1979 - 1981 Registrar, Internal Medicine, Nagpur University, India  
1981 - 1982 Senior House Officer, Internal Medicine and Psychiatry, Royal Northern Infirmary, and Cherry Knowle Hospital, United Kingdom  
1982 - 1983 Senior House Officer, Internal Medicine, Aberdeen University, United Kingdom  
1983 - 1984 Registrar, Internal Medicine, Aberdeen University, United Kingdom  
1984 - 1987 Specialty Registrar, Internal Medicine/Gastroenterology, Aberdeen University, United Kingdom  
1989 Advanced therapeutic E.R.C.P., Academic Medical Center, Amsterdam, Holland  
1992 Advanced therapeutic E.R.C.P., Fujigaoka Showa University, Yokohama, Japan

#### FACULTY APPOINTMENTS:

1981 Lecturer, Internal Medicine, Nagpur University, India  
1984 - 1987 Tutor, Medicine, Gastroenterology, Aberdeen University, United Kingdom  
1987 - 1992 Senior Specialist, Medicine, Gastroenterology, Ministry of Health, Sultanate of Oman  
1992 - 1994 Instructor, Medicine, Gastroenterology, Medical College of Wisconsin, Milwaukee, WI  
1994 - 1999 Assistant Professor, Medicine, Gastroenterology, Medical College of Wisconsin, Milwaukee, WI  
1999 - 2007 Associate Professor, Medicine, Gastroenterology, Medical College of Wisconsin, Milwaukee, WI  
2007 - Present Professor of Medicine, Medicine, Gastroenterology, Medical College of Wisconsin, Milwaukee, WI  
2014 - Present Professor of Pediatrics, Gastroenterology, Children's Hospital of Wisconsin, Milwaukee, WI  
2019 - Present Adjunct Professor, Medicine, Gleneagle Apollo University Hospital, Kolkata, India

**ADMINISTRATIVE APPOINTMENTS:**

- 1996 - 1999 Director, Diagnostic and Therapeutic Endoscopy, Clement J. Zablocki VA Medical Center, Milwaukee, WI
- 1998 - Present GME GI Fellowship Director, Clement J. Zablocki VA Medical Center, Milwaukee, WI
- 1998 - Present Chief, Gastroenterology, Clement J. Zablocki VA Medical Center, Milwaukee, WI
- 1999 - 2004 Director, Diagnostic & Therapeutic Endoscopy, Froedtert Hospital, Milwaukee, WI
- 1999 - Present Director, Pancreatico-biliary Center, Digestive Disease Center, Medical College of Wisconsin, Milwaukee, WI
- 2004 - Present Co-Director, Diagnostic & Therapeutic Endoscopy, Froedtert Hospital, Milwaukee, WI
- 2008 Director, FYF Endoscopy Course, Midwest Region, ASGE
- 2009 - Present Associate Director, Fellowship Program, Gastroenterology & Hepatology, Medical College of Wisconsin, Milwaukee, WI
- 2009 - Present Program Director, Fellowship Program, Gastroenterology & Hepatology, Medical College of Wisconsin, Milwaukee, WI
- 2010 - Present Councilor, Dysphagia Research Society (DRS)
- 2010 Director, FYF Endoscopy Course, Midwest Region, ASGE
- 2011 Committee Chair, World Congress on Diseases of the Esophagus, OESO, Como, Italy
- 2012 - Present President, Midwest Endoscopy Group
- 2012 - Present International Committee of the American Society of Gastrointestinal Endoscopy (ASGE)
- 2012 Director, Midwest Therapeutic Endoscopy Course
- 2012 - 2013 Secretary-Treasurer, International Dysphagia Research Society
- 2012 - 2013 Secretary-Treasurer, Milwaukee GI Society, Milwaukee, WI
- 2014 - 2015 President, International Dysphagia Research Society
- 2014 - Present Global Health Advisory Council, Medical College of Wisconsin, Milwaukee, WI
- 2015 - Present ASGE Expert Consultant
- 2015 - Present President, Milwaukee GI Society, Milwaukee, WI
- 2015 - Present Faculty Appointment and Promotions Advisory Committee, Medicine, Medical College of Wisconsin, Milwaukee, WI
- 2017 - Present President, Midwest Endoscopy Society
- 2019 Chair, World Endoscopy Organization (WEO) Africa initiative
- 2022 - Present Chair, American Society of Gastrointestinal Endoscopy International Clinical Symposia Committee

**HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

- 1980 - 1981 Attending Staff, Medical College and Hospital, Nagpur, India
- 1987 - 1992 Senior Specialist, Gastroenterology, Royal Hospital, Muscat, Sultanate of Oman
- 1992 - Present Faculty, Gastroenterology, Zablocki VA Medical Center, Milwaukee, WI
- 1992 - Present Faculty, Froedtert Hospital, Milwaukee, WI
- 2002 - Present Faculty, Children's Hospital of Wisconsin, Milwaukee, WI

**HOSPITAL STAFF PRIVILEGES:**

- 1992 - Present Zablocki V. A. Medical Center, 5000 W. National Ave, Milwaukee, WI 53295
- 1992 - Present Froedtert Hospital, 9200 W. Wisconsin Ave, Milwaukee, WI 53226
- 2002 - Present Children's Hospital of Wisconsin, 9000 W. Wisconsin Ave, Milwaukee, WI 53226

**SPECIALTY BOARDS AND CERTIFICATION:**

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
Royal College of Physicians, Internal Medicine, United Kingdom	1987	None
DNB Diplomate of the National Board in Gastroenterology, India	1988	None
American Board of Internal Medicine	1996	None
ABIM in Gastroenterology	2007	2027

<u>Certificates</u>	<u>Issued By</u>	<u>Issue Date</u>	<u>Expiration</u>
ACLS	AHA	03/1997	None

<u>Licensure</u>	<u>Number</u>	<u>Issue Date</u>	<u>Expiration</u>
India		1980	None
United Kingdom		1984	None
Wisconsin State License	33718-20	09/24/1992	10/31/2023
Michigan State License	4301080935	09/19/2002	01/31/2021

#### **AWARDS AND HONORS:**

1971 - Present National Science Talent Search Award  
1972 Dr. C.V. Raman Science Award  
1972 President of India Award, Invention Promotion Board  
1977 Prince of Wales Research Award  
1977 M.P. Ophthalmic Surgeon Award  
1986 S. Miller Gastroenterology Award  
1994 Academy of Medical Science Award  
1995 B.J. Vakil Memorial Gold Medal, Society of Gastrointestinal Endoscopy of India  
1999 Magna Cum Laude award (Making sense of mucin-producing tumors), 85th Scientific Assembly of the Radiology Society of North America  
1999 Poster of Distinction (Anti-reflux Esophageal Stent), Gastrointestinal Endoscopy of India  
2000 Teaching Award, American Academy of Family Physicians  
2000 Clinical Scholar, Medical College of Wisconsin  
2001 Patient Safety, Quality and Performance Improvement, Clement J. Zablocki Veterans Affairs Medical Center  
2001 Poona Oration Gold Medal, Society of Gastrointestinal Endoscopy of India  
2002 Present America's Best Doctors  
2004 AdQ Award, Cooks Medical  
2004 Master of Endoscopy, American Society of Gastrointestinal Endoscopy for expertise and longitudinal contribution to GI endoscopy  
2004 Poster of Distinction, AGA  
2005 U.S. Patent Medal for the Anti-reflux Valve  
2010 President's Award, AAPI, presented by the Mayor of Maryland  
2011 Honor a Doctor recognition award, during US National Doctor's Day  
2011 - Present American Society of Gastrointestinal Endoscopy Ambassador, Ecuador  
2013 American Society of Gastrointestinal Endoscopy Ambassador, Cuenca  
2016 Translational Science Award, Clinical and Translational Science Institute of Wisconsin  
2017 U.S.A. Healthcare Hero Award, Biz-Time  
2017 Indian Academy of Science Award  
2017 Inaugural Distinguished Lecture at WHO, Geneva, OESO  
2018 Distinguished Solly Mark Lecture, South Africa Gastroenterology, and Endoscopy Society  
2020 Distinguished Service Award, International Committee American Society of Gastrointestinal Endoscopy  
2021 Amongst top best reviewer for the journal Gastrointestinal Endoscopy  
2021 Interviewed by ASGE in the "Meet the Master" series  
2021 Amongst top best reviewer for the Journal Gastrointestinal Endoscopy  
2022 Inducted into first batch of Master of the of the American Society of Gastrointestinal Endoscopy for excellence in GI endoscopy and being in the top gastroenterologists of the world. Conferred MASGE  
2025 Dysphagia Research Society Gold Medal Award

#### **MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

1984 Royal College of Physicians of Edinburgh (Member )  
1984 Royal College of Physicians of London (Member)  
1988 Indian Society of Gastroenterology (Member)

1988 Indian Medical Association (Member)  
 1990 Indian Academy of Medical Specialists (Gastroenterology) (Fellow)  
 1992 Japan Gastroenterological Endoscopy Society (Member)  
 1993 American Society for Gastrointestinal Endoscopy (Member)  
 1993 American College of Gastroenterology (Member)  
 1993 American Gastroenterological Association (Member )  
 1994 Dysphagia Research Society (Member)  
 1995 Midwest Pancreatico-biliary Club (Member )  
 1995 Milwaukee Gastroenterological Society (Member)  
 1996 Midwest Gut Club (Member )  
 1998 Royal College of Physicians of Edinburgh, U.K. (Fellow)  
 1998 American College of Physicians (Fellow)  
 2004 Royal College of Physicians of London, U.K. (Fellow)

**RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

**Active**

**Non-Peer Review**

Title:	Clinical Investigation to Evaluate Removal of the Evolution Esophageal Stent-Fully Covered
Source:	Clarity Ongoing~ Enrolling
Role & Effort:	Principal Investigator
Dates:	07/16/2013 - Present
Title:	Prospective, Multicenter, Single Blind, Randomized Study Comparing the EndoMAXX EVT Fully Covered Esophageal Stent with Valve to the EndoMAXX Fully Covered Esophageal Stent for Malignant Strictures Requiring Stent Placement Across the Gastroesophageal Junction
Source:	EVOLVE Ongoing~Enrolling
Role & Effort:	Principal Investigator
Dates:	08/25/2014 - Present

**Prior**

**Peer Review**

Title:	Electrocardiographic changes in chronic obstructive airway diseases
Source:	25. Council of Industrial and Scientific Research Grant, Delhi, India
Role & Effort:	Principal Investigator
Dates:	1979 - 1981
Title:	Upper esophageal sphincter opening and trans-sphincteric flow
Source:	NIH 5 R01 DC00669-04
Role & Effort:	Co-Principal Investigator
Dates:	04/1995 - 05/1999
Title:	Effect of acute and chronic smoking on the airway protective reflexes against aspiration
Source:	Institutional Research Grant, 25023

Role & Effort:	Principal Investigator
Dates:	05/1996
Title:	Evaluation of self-expandable metal esophageal endo-prosthesis with anti-reflux mechanism in dogs
Source:	ARC
Role & Effort:	Principal investigator
Dates:	1998
Title:	Effect of acute and chronic cigarette smoking on airway protective mechanisms
Source:	VA Merit Entry Program grant
Role & Effort:	Principal investigator
Dates:	1998 - 2001
Title:	Program Project: Airway protection against aspiration of gastric contents
Source:	NIH No. PO1 DC03191
Role & Effort:	Co-investigator
Dates:	04/01/1999 - 03/31/2003
Title:	Laryngeal complications in animal models with chronic gastroesophageal reflux
Source:	ARC
Role & Effort:	Principal investigator
Dates:	1999
Title:	To train and prepare interested fellows for a research career in academic gastroenterology
Source:	NIH/NIDDK IT32 DK Gastroenterology Training Grant
Dates:	09/01/2002 - 08/31/2007
Title:	Gastroenterology Research Training Grant
Source:	NIH/NIDDK IT32 DK 61923-01
Role & Effort:	Co-investigator
Dates:	09/01/2002 - 06/30/2013
Title:	Esophageal Motor Function in Health and Disease
Source:	NIH/NIDDK 5 R01 DK25731
Role & Effort:	Co-investigator
PI:	Reza Shaker
Dates:	07/01/2005 - 08/31/2013
Title:	Esophageal Motor Function in Health and Disease
Source:	NIH Grant # R01-DK25731
Role & Effort:	Co-Investigator
PI:	Reza Shaker
Dates:	07/01/2005 - 06/30/2010

Title: Mechanism of upper gut and airway interaction  
Source: NIH/NIDDK Program Project  
1P01DK068051-01A1  
Role & Effort: Co-Investigator  
PI: Reza Shaker  
Dates: 2007 - 2018

Title: Randomized Control Trial Comparing Covered and Uncovered Biliary Self Expanding metal stents (SEMS) for Pre-operative Drainage During Neoadjuvant Therapy in Patients with Pancreatic Cancer  
Source: Boston Scientific  
Role & Effort: Center Principal Investigator  
Dates: 01/27/2015 - 2018

Title: Clinical and Translational Science Award  
Source: NIH/NCRR UL1TR001436  
Role & Effort: Research Mentor  
PI: Reza Shaker  
Dates: 07/01/2015 - 06/30/2020

Title: Self-expanding Esophageal Plastic Stents for Benign Esophageal Strictures  
Source: Boston Scientific Research Grant  
Role & Effort: Principal Investigator

Title: Gastroesophageal reflux in patients with benign and malignant lesions of the aerodigestive tract  
Source: HRRC 122-92  
Role & Effort: Co-Principal Investigator  
PI: Reza Shaker

Title: Coordination of deglutition with respiration  
Source: HRRC 43-91  
Role & Effort: Co-Principal Investigator

Title: The effect of pancreatic duct stent placement on pain due to chronic pancreatitis: a prospective randomized placebo controlled trial  
Source: HRRC 28-90  
Role & Effort: Co-Principal Investigator

Title: Frequency of gastroesophageal reflux in health and diseases  
Source: HRRC 42-91  
Role & Effort: Co-Principal Investigator

Title: 19. Glaxo: Pharyngeal acid reflux in patients with benign lesions of the aerodigestive tract

Role & Effort:	Co-Principal Investigator
Title:	A randomized, double-blind, placebo-controlled multicenter study to assess the efficacy, safety and tolerability of tegaserod 2 mg bid and 6 mg bid given orally vs placebo in patients with chronic constipation
Source:	CHTF919 E2302; 2001
Role & Effort:	Principal Investigator
Title:	Clinical evaluation of PROPULSID (cisapride) tablets, 20 mg B.I.D., in the treatment of subjects with symptoms of chronic gastroesophageal reflux disease
Source:	HRRC 191-94
Role & Effort:	Co-Principal Investigator
Title:	Evaluation of the tannenbaun (teflon) biliary endoprosthesis versus conventional (polyethylene) endoprosthesis for the treatment of benign, non-hilar biliary strictures: a prospective trial
Source:	HRRC 161-97
Role & Effort:	Principal investigator
Title:	Mapping of cerebral cortical areas receiving afferent sensory input from GI tract using the functional MRI (BOLD) technique
Source:	HRRC 123-94
Role & Effort:	Co-Principal Investigator
Title:	Comparison of transnasal unsedated and conventional upper GI endoscopy
Source:	HRRC 50-93
Role & Effort:	Co-Principal Investigator
Title:	Does prophylactic steroid administration reduce the risk and severity of post-ERCP pancreatitis? : Randomized prospective multicenter study
Source:	HRRC 206-95
Role & Effort:	Principal Investigator
Title:	Mechanism of airway protection during gastroesophageal reflux
Source:	HRRC 199-93
Role & Effort:	Co-Principal Investigator
Title:	Esophageal motor function in health and disease, re-submission
Source:	NIH 5 R01 DK25731-16
Role & Effort:	Co-Principal Investigator
Title:	Evaluation of the tannenbaun (teflon)

Source: biliary endoprosthesis versus  
 Role & Effort: conventional (polyethylene)  
 endoprosthesis for the treatment of  
 malignant non-hilar biliary strictures: a  
 prospective, multicenter trial  
 HRRC 267-94  
 Principal Investigator

Title: Effect of acute and chronic cigarette  
 smoking on the airway protective  
 mechanisms against aspiration of gastric  
 contents

Source: NIH/GCRC, HRRC 314-96  
 Role & Effort: Principal Investigator

Title: VA Merit Review; VA #7866-01PR:  
 Pharyngeal Motor Function in Health  
 and Disease

Source: HRRC 26-89  
 Role & Effort: Co-Principal Investigator

#### **INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

##### **International**

Lecture, International Meeting of the Royal College of Physicians and Surgeons of Glasgow, Madras, India, 1988

Moderator, International Gastroenterology Meeting Symposium on 'Peptic Ulcer Disease', Muscat, Oman, 1990

Co-Organizer and Co-Chair, International Gastroenterology Meeting, Muscat, Oman, 1990

"Esophageal Motility Disorders, Role of Manometry", Ministry of Health, Muscat, Oman, 1993

Invited Live Demonstration, Esophageal Manometry, Ministry of Health, Muscat, Oman, 1993

"Sphincter of Oddi Manometry", Ministry of Health, Muscat, Oman, 1993

"Endoscopic Treatment of Chronic Pancreatitis", Central India Institute of Medical Sciences, Nagpur, India, 1994

"New Techniques in Gastroenterology", Central India Institute of Medical Sciences, Nagpur, India, 1994

Invited to perform live therapeutic ERCPs, Endoscopy Unit, Midas Hospital, Nagpur, India, 1994

"Chronic Pancreatitis: The Role of Endoscopic Intervention", G.B. Pant Hospital, Delhi University, New Delhi, India, 1994

"Non-Cardiac Chest Pain", Academy of Medical Sciences, Nagpur University, Nagpur, India, 1994

Invited Attendee, Pancreato-Biliary Case Conference, G.B. Pant Hospital, Delhi University, New Delhi, India, 1994

"Chronic Pancreatitis: Role of Endoscopic Intervention", Society of Gastrointestinal Endoscopy of India, Annual Meeting, Cuttack, India, 1995

Invited to perform live therapeutic ERCPs, Endoscopy Unit, Mukewar Hospital, Nagpur, India, 1995

Invited to perform live therapeutic ERCPs, Endoscopy Unit, Mukewar Hospital, Nagpur, India, 1995

Chair, New endoscopic techniques: How I do it, Indian Society of Gastroenterology, Annual Meeting, Cuttack, India, 1995

Guest Speaker, "Noncardiac Chest Pain", Indian Society of Gastroenterology, Cuttack, India, 1995

Session Chair, 'Video Demonstration of Esophageal Manometry and Ambulatory PH and Motility Monitoring of the Esophagus', International Conference on GI Motility and Functional Gut Disorders, Muscat, Oman, 1996

Guest Speaker, Noncardiac Chest Pain International Conference on GI Motility and Functional Gut Disorders, Muscat, Oman, 1996

Guest Speaker, "Sphincter of Oddi Manometry", International Conference on GI Motility and Functional Gut Disorders, Muscat, Oman, 1996

"Supraesophageal Defense Mechanisms Against Aspiration of Gastric Contents", Annual International Meeting of the Dysphagia Research Society, Toronto, Canada, 10/1997

Chair, Supraesophageal Complications of Gastro-esophageal Reflux Disease Annual International Meeting, Dysphagia Research Society, Toronto, Canada, 10/1997

"Maintaining Oral Nutrition in Esophageal Malignancy", Annual meeting of the Academy of Medical Sciences, Nagpur, India, 1997

"Endoscopic Treatment of Chronic Pancreatitis", Annual Meeting of the Academy of Medical Sciences, Nagpur, India, 1997

"Sphincter of Oddi Manometry", Department of Hepatology, Post-Graduate Institute of Medical Sciences and Research, Chandigarh, India, 01/1998

Invited to Chair, 'Small Bowel Radiology' Annual Meeting of the Indian Society of Radiology, India, 01/1998

"Maintaining Oral Nutrition in Esophageal Malignancy", Department of Thoracic Surgery, Post-Graduate Institute of Medical Sciences and Research, Chandigarh, India, 01/1998

"Sphincter of Oddi Dysfunction", Annual Conference of the Indian Association for Study of the Liver (INASL), India, 03/1998

"Endosonography in Biliary Disorders", Annual Conference of the Indian Association for Study of the Liver, India, 03/1998

"Supraesophageal Defense Mechanisms Against Aspiration", Department of Gastroenterology and Hepatology, Aberdeen University, Aberdeen, U.K., 09/1998

"Maintaining Oro-Gastric Pathway in Esophageal Cancer", Annual Meeting of the Indian Society of Gastroenterology, India, 10/1998

"Supraesophageal Defense Mechanisms Against Aspiration", Annual Meeting of the Indian Society of Gastroenterology, India, 11/1998

Invited Faculty, Esophageal and Biliary Motility and Interventional Procedures, Postgraduate Institute of Medical Sciences, Lucknow, 08/1999

"Endoscopic Palliation of Malignant Dysphagia", Academy of Medical Sciences, 08/1999

"Ascending Cholangitis", Academy of Medical Sciences, 08/1999

Demonstration of Anti-Reflux Esophageal Expandable Metal Stent, Esophageal Cancer: From Gene to Cure, Amsterdam, Netherlands, 2000

"Endoscopic Palliation of Esophageal Cancer", Indian Science Congress, New Delhi, India, 2001

Invited Faculty, Indian Society of Gastrointestinal Endoscopy Oration, Lucknow, India, 2001

Performed live Endoscopic Placement of Anti-Reflux Expandable Metal Esophageal Stent, Third International Conference, Therapeutic Endoscopy, Mumbai, India, 2001

Invited Faculty, Fourteenth Therapeutic Endoscopy Course, Toronto, Canada, 2001

"Supraesophageal Defense Mechanisms against Aspiration of Gastric Contents", University of Aberdeen, Aberdeen, United Kingdom, 2001

"Effect of Cigarette Smoking on Supraesophageal Defense Mechanisms Against Aspiration of Gastric Contents", Indian Science Congress, New Delhi, India, 2001

Invited Faculty, Indian Society of Gastrointestinal Endoscopy, India, 2002

Invited Faculty, Indian Society of Gastrointestinal Endoscopy, India, 2002

Invited Faculty, Therapeutic Endoscopy Course, Muscat, Oman, 2002

"Stenting the Oesophagus", Grand Rounds, Aberdeen University, UK, 2003

Invited Faculty for Lecture and Live Demonstration, Annual Asian Institute of Therapeutic Endoscopy Course, Hyderabad, India, 2004

"Biliary Stents with Anti-reflux Valve", European Digestive Disease Week, Prague, 2004

Therapeutic Endoscopy Course Central, India Institute of Medical Sciences, India, 2004

"Stenting the Esophagus", Lemrick, Ireland, 2005

"Anti-Reflux Biliary Stent", European Digestive Disease Week, Copenhagen, Denmark, 2005

"Maintaining Oro-gastric Pathway in Esophageal Cancer" "How to Choose an Esophageal Stent?", Asian Institute of Gastroenterology, Hyderabad, India, 2005

Invited Faculty, Advanced Therapeutic ERCP Course, Asian Institute of Gastroenterology, Hyderabad, India, 2006

Bankat Chandra Oration on "Management of Acute Pancreatitis", Indian Medical Council, India, 2006

Grand Rounds, at Fortis Hospital, Chandigarh, India, 2006

Invited Faculty for lecture and live demonstrations, Fifteenth Therapeutic Endoscopy Course, University of Sao Paulo, Sao Paulo, Brazil, 2006

"What's New in Biliary Stenting", Asia-Pacific Society Study of Liver Diseases, Nagpur, 2006

Invited Faculty, Annual Indian Society of Gastrointestinal Endoscopy Meeting, Bangalore, India, 2007

Invited Faculty, Oman Gastroenterology Meeting, Muscat, Oman, 2007  
Invited Faculty, Therapeutic Endoscopy Workshop, Midas Institute of Gastroenterology, Nagpur, India, 2007  
Invited Faculty, "How to Choose an Oesophageal Stent", Grand Rounds, Aberdeen University, Aberdeen, U.K., 2007  
Invited Faculty, OESO, International Conference on the Diseases of the Esophagus, Monaco, 2008  
Invited Faculty, International Gastroenterology Conference, Muscat, Oman, 2008  
Invited Faculty, 10th Annual Therapeutic Endoscopy Workshop, Cairo, Egypt, 2008  
"Refractory Benign Esophageal Stricture", United European Gastroenterology Week, Vienna, Austria, 2008  
Invited Faculty, PGI/AIIMS Endoscopy Course, Chandigarh, India, 2009  
Invited Faculty, Israel Postgraduate Course, Eilat, Israel, 2009  
Invited Faculty, MS ISG Chapter Gastroenterology Course, India, 2009  
"Endoscopic Therapy for Refractory Benign Esophageal Strictures", Chandigarh, India, 2009  
Invited Faculty, Therapeutic Endoscopy Course, Malaysia, 2009  
Invited Faculty, 11th International Digestive Endoscopy Week, Chennai, 2010  
Invited Faculty, Central Asia Institute of Gastroenterology, India, 10/2011  
Invited Faculty, Therapeutic Endoscopy Workshop, Midas Institute of Gastroenterology, Nagpur, India, 2011  
Invited Faculty, Midas Institute of Gastroenterology, Nagpur, India, 2012  
Invited Faculty, Indian Society of Gastroenterology, Jaipur, India, 2012  
Invited Faculty, Midas Institute of Gastroenterology, Nagpur, India, 2012  
Invited Faculty, Therapeutic Endoscopy Workshop, Midas Institute of Gastroenterology, Nagpur, India, 2012  
Invited Faculty & Committee Chair, OESO Meeting, Como, Italy, 2012  
Invited Faculty, Committee Chair International OESO Meeting, Paris, 2013  
Invited Faculty, Therapeutic Endoscopy Workshop-'Stenting the GI Tract', Cuenca, Ecuador, 2013  
Invited Faculty, Endoscopy Master Class Meeting, Nottingham, UK, 2013  
Visiting Professor, Teach Gastroenterology Fellows in Training, Addis Ababa University, Ethiopia, 2013  
Invited Faculty, Therapeutic Oncology Endoscopy Course, Rio De Janeiro, Brazil, 2014  
Invited Faculty, EUS Course, Midas Institute, India, 2014  
Invited Faculty, Endoscopy-Surgery Interface Workshop, Galapagos Islands, 2014  
Invited Faculty, POEM and ESD Training, Shanghai, P R China, 2014  
Invited Faculty, American Society of Gastrointestinal Endoscopy, Therapeutic Endoscopy Workshop, Cuenca, Ecuador, 2014  
Invited Faculty, ENDOCON Society of GI Endoscopy of India, Coimbatore, India, 2014  
Invited Faculty, Mayo-Midas Course, India, 01/2015  
Invited Faculty, OESO Meeting, Monte Carlo, 08/2015  
Invited Faculty, Interim Indian Society of Gastroenterology Meeting, Kolkata, India, 2015  
Invited Faculty, Therapeutic Endoscopy Course, Sao Paulo, Brazil, 2015  
Invited Faculty, Endoscopy Digestive Workshop, Cuenca, Ecuador, 12/03/2016  
Invited Faculty, Therapeutic Endoscopy Course, Cuenca, Ecuador, 2016  
Invited Faculty, SBAD Course, Brazil, 2016  
Visiting Professor, Addis Ababa, Ethiopia, 2016  
Director, ASGE-SOBED Post- Graduate Course, Belo Horizonte, Brazil, 2016  
Invited Faculty, EUS Training Course, Midas Institute, India, 2016  
Invited Faculty, Academy of Science Nagpur, Nagpur, India, 01/09/2017  
invited Speaker, WHO (OESO), Geneva, Switzerland, 2017  
Invited Faculty, World Dysphasia Summit, Barcelona, Spain, 2017  
Invited Faculty, World Endoscopy Conference, Hyderabad, 2017  
Invited Faculty, Africa-Middle East Gastroenterology (AMAGE) Conference, Addis Ababa, Ethiopia, 2017  
"Management of Patients With Refractory Heartburn", Asian Pacific GI Week, 02/12/2018 - 02/20/2018  
Invited Faculty, Stents in Surgical Practice, Asian Pacific GI Week, 02/12/2018 - 02/20/2018  
ASGE, South Africa, 08/06/2018 - 08/10/2018  
Invited Faculty, United European GI Society, 10/18/2018 - 10/19/2018  
Invited Faculty, 55th National Conference of Indian Academy of Pediatrics (PEDICON 2018), Nagpur, India, 2018  
Invited Faculty, Gastroenterology Conference, Midas Institute, India, 2018  
Invited Faculty, Endoscopy Course, Cuenca, Ecuador, 2018  
Invited Faculty, Gastroenterology and Hepatology Association of Sub-Saharan Africa (GHASSA), Sudan, 2018

Invites Speaker, Midas Institute, Nagpur, India, 02/04/2019 - 02/11/2019  
"Stem Cells and Tissue Engineering", XI International Workshop on EPR in Biology and Medicine, Jagiellonian University in Krakow, Poland, 10/06/2019 - 10/10/2019  
ASGE International Committee, Barcelona, Spain, 10/18/2019 - 10/21/2019  
Invited Speaker, OESO World Conference for Esophageal Diseases, Beijing, China, 11/07/2019 - 11/09/2019  
Asian Pacific Digestive Week, Kolkata, India, 12/12/2019 - 12/15/2019  
Invited Faculty, Nigeria Society of Gastroenterology, 2019  
Invited Speaker, Chandigarh, India, 2019  
Regenerative Esophageal Medicine" in session "New Developments on Endoscopic Diagnosis and Treatment of the Esophagus, ENDO 2020 – 2nd World Congress of GI Endoscopy and 24th Pan American Congress of Digestive Endoscopy, Rio de Janeiro, Brazil, 03/07/2020 - 03/10/2020  
Several invited talks and live procedures during the GI Fellowship Training Session, University of Kigali, Kigali, Rwanda, 11/2021 - Present  
Invited Faculty: several lectures, Rwanda University, Kigali, Rwanda, 11/2021 - Present  
Invited Faculty for live Endoscopy Workshop, Rwanda Endoscopy Week, Kigali, Rwanda, 03/2022  
"Endoscopic Management of Refractory Benign Esophageal Strictures: What's New?", GI ECHO Platform for Sub-Saharan Africa, Virtual, 08/17/2022  
"Improving Early Detection of PancreatoBiliary Cancers through Advanced Endoscopy", Africa HepatoPancreatoBiliary Cancer Consortium Transforming HepatoPancreatoBiliary Cancer Research and Care in the Omics Era, Cairo, Egypt, 08/25/2022 - 08/28/2022  
Prof. Lars Aabakken, Prof Elly Otieno Ogotu, Prof. Sandie Thompson, Kulwinder Dua, WEO Sponsored Panel Discussion: How do we Enhance Endoscopy Research Training and Practice in Africa?, Africa HepatoPancreatoBiliary Cancer Consortium 2022: Transforming HepatoPancreatoBiliary Cancer Research and Care in the Omics Era, Cairo, Egypt, 08/25/2022 - 08/28/2022  
Invited Faculty for live Endoscopy Workshop, Rwanda Endoscopy Week, Kigali, 10/2022  
"How to Avoid Complication During Colon Stenting", Sao Paulo, Brazil Endoscopy Society Meeting, Sao Paulo, Brazil, 11/2022  
"Challenges in Pancreato-Biliary Malignancies", Indian Society of Gastroenterology Meeting Jaipur India, Jaipur India, 01/2023  
"Sphincter of Oddi Dysfunction: Time to Discard the Diagnosis", Indian Society of Gastroenterology Meeting, Jaipur, India, 01/2023  
Invited Faculty, "Endoscopic Esophageal Interventions: Innovations and Future Directions, 3rd World Dysphagia Summit, San Francisco, CA, 03/2023  
"Refractory Benign Esophageal Strictures", Abidjan, Ivory Coast, 04/2023  
"Endoscopic Management of Refractory Benign Esophageal Stricture: What's new?", South Africa Gastroenterology Society SAGE Meeting, Pretoria, South Africa, 08/2023  
"EUS-FNA-ERCP: One Stop Shop for Resectable Pancreas Cancer", South Africa Gastroenterology Society SAGE Meeting, Pretoria, South Africa, 08/2023  
"Re-Growing the Human Esophagus with Tissue-Engineering", Kuwait, 10/2023  
"Endoscopic Management of Esophageal Cancer", Indian Society of Gastroenterology Meeting, Bangalore, India, 12/2023  
"Management of Difficult Gastroesophageal Reflux Disease", Aurangabad Live, India, 01/2024  
"Endoscopic Anatomic Landmarks and Finding in the Esophagus", Cali, Colombia, 03/2024  
"Remote Endoscopy Teaching Using Virtual Platforms", Seol, South Korea, 07/2024  
ASGE - Argentina Endoscopy Workshop, Argentina, 09/2024  
Anitia Oration: "Re-Growing the Human Esophagus", Nair Hospital, Bombay, India, 10/2024  
Invited Faculty, Therapeutic Endoscopy Course, Kuwait, 10/2024  
Invited Faculty, World Endoscopy Organization, Chile, 11/2024  
Invited Faculty, Therapeutic Endoscopy Course, Ecuador, 11/2024  
Invited Faculty, Eight Therapeutic Endoscopy Course, Ryadh, Saudi Arabia, 02/2025  
Invited Faculty, ELEGANCE Gastroenterology Conference, Dubai, 02/2025  
Invited Faculty, Rwanda Endoscopy Week, 03/2025  
Invited Speaker, Endoscopy Course, Algiers, Algeria, 06/2025  
Invited Speaker and live endoscopy, EUS Conference, Rabat, Morocco, 06/2025  
Invited Speaker and live endoscopy, International EUS Summit, Delhi, India, 09/2025  
Invited Speaker, Therapeutic Endoscopy Conference, Kuwait City, Kuwait, 10/2025  
Invited Speaker, Asia Pacific Digestive Week, Singapore, 11/2025

Invited Speaker and live endoscopy, XI International Course on Digestive Diseases, Cuenca, Ecuador, 11/2025  
Invited Speaker, ELEGANCE Conference, Istanbul, Turkey, 12/2025  
Invited Speaker and live endoscopy, Therapeutic Endoscopy Course, Riyadh, Saudi Arabia, 01/2026  
Invited Speaker, 2nd Oman Gastroenterology Conference, Muscat, Oman, 02/2026

### **National**

American College of Physician, Recertification Course: Invited to give Gastroenterology and Hepatology Session, 10/1998  
Invited to Participate, Harvard Live Endoscopy Course, Boston, MA, 04/1999  
"Endoscopic Palliation of Malignant Dysphagia", Digestive Disease Week, Orlando, FL, 05/1999  
"Ascending Cholangitis", Academy of Medical Sciences, 08/1999  
"Endoscopic Palliation of Malignant Dysphagia", Academy of Medical Sciences, 08/1999  
American College of Physician, Gastroenterology and Hepatology, 10/1999  
"Advances in Acid Suppression", Grand Rounds, Lake Region Hospital, North Dakota, 11/1999  
"What is New in Acid Suppression", Sullivan Hospital, Indiana, 1999  
"Endoscopic Palliation of Malignant Dysphagia", Ground Rounds, University of Louisiana, New Orleans, LA, 01/2000  
Invited Speaker, "Endoscopic Palliation of Esophageal Cancer", Kansas City, MO, 2000  
Invited Speaker, Stents for Tumors at the Lower Esophagus, University of South Florida, Tampa, FL, 2000  
"Anti-Reflux Stent in Tumors of Cardia", Multi-Disciplinary International Symposium on Supraesophageal Complications of Reflux Diseases, Boston, MA, 2000  
Speaker, "Endoscopic Palliation of Esophageal Cancer", Kansas City, MO, 2000  
Invited Speaker, Anti-Reflux Expandable Esophageal Metal Stents, Maui, 2000  
"Anti-Reflux Stent for Tumors of the Cardia", VA Hospital, Little Rock, AR, 2001  
"Endoscopic Palliation of Esophageal Cancer", Charleston, SC, 2001  
State of the Art Talk - "What's New in Esophageal Stents?", American Society of Gastrointestinal Endoscopy, Digestive Disease Week, Atlanta, GA, 2001  
Performed Live Endoscopic Ultrasound Demonstration, VA Hospital Little Rock, AR, 2001  
"EUS for Cancer Staging", Grand Rounds Marquette General Hospital, Marquette, MI, 2004  
Invited Lecture, "Aerodigestive Reflexes", at the Fifth International Conference on Supraesophageal Complications of Reflux Disease, Miami, FL, 2005  
Director, First-Year GI Fellow Endoscopy Course, American Society of Gastrointestinal Endoscopy Training Committee, Chicago, IL, 08/2008  
Director, First Year GI Fellow Endoscopy Course, Society of Gastrointestinal Endoscopy Training Committee, Chicago, IL, 08/2008  
Invited Faculty, Dysphagia Research Society, San Antonio, TX, 03/2011  
Invited Faculty, Rocky Mountain Endoscopy Course, Denver, CO, 2012  
Invited Faculty, Endoscopy Hands-On Training Post Graduate Course, Digestive Disease Week, ASGE, 2013  
Invited Faculty, DDW, American Society of Gastrointestinal Endoscopy Hands on Stents Training, Post Graduate Course, Orlando, FL, 2013  
Invited Faculty, Dysphagia Research Society Post Graduate Course, Nashville, TN, 2014  
Invited Faculty, American Society of Gastrointestinal Endoscopy Hands-on Stents Training Postgraduate Course., Digestive Disease Week, Washington DC, 2014  
Postgraduate course, Dysphagia Research Society, Nashville, TN, 2014  
"How I Place an Esophageal Stent", Interventional GI Course, Las Vegas, NV, 02/13/2015  
"Endoscopic Management of Refractory Benign Stricture", Advanced Topics in Total Laryngectomy Course: Re-Evaluating Swallowing & Voice in an Era of Organ Preservation, Los Angeles, CA, 08/07/2015  
Invited Speaker, Dysphagia Research Society, Memphis, TN, 2015  
"EMR/Polypectomy", WCOG- ACG2017 Hands-on Workshop Center, Orlando, FL, 10/15/2017  
Invited Faculty, Dysphagia Research Society, San Diego, CA, 03/13/2018 - 03/17/2018  
Invited Faculty, Digestive Disease Week (DDW), Washington, DC, 06/02/2018 - 06/05/2018  
Endoscopy Society, Arkansas, 06/22/2018 - 06/24/2018  
Invited Speaker, Grand Rounds, Dallas, TX, 2018  
Invited Speaker, Grand Rounds, Dallas, Texas, 2018  
Invited Faculty, Internal Medicine Grand Rounds, Omaha, NE, 02/15/2019  
Moderate, ASGE Korean/Society of Gastrointestinal Endoscopy International Symposium: Recent Advances

of Therapeutic Endoscopy in Esophageal Diseases, Digestive Disease Week, San Diego, CA, 05/20/2019  
Large Gastric Staple-Line Dehiscence Treated with Novel Stent-Anchoring Technique to Prevent Stent Migration, Digestive Disease Week, San Diego, CA, 05/21/2019  
"Repairing Esophageal Defects with Tissue Engineering", Digestive Disease Week, San Diego, CA, 05/21/2019  
Invited Faculty, American Society of Gastrointestinal Endoscopy, San Diego, CA, 2019  
"Benign Esophageal Obstruction: Dilation and Beyond", Digestive Disease Week, San Diego, CA, 05/21/2021  
"Innovations in the Assessment of Aerodigestive Functions: New Technologies and Tools", 3rd WDS (World Dysphagia Summit), San Francisco, CA, 03/13/2023  
Endoscopic Esophageal Treatment Innovations for Adults - Current Perspectives and Future Directions, 3rd WDS (World Dysphagia Summit), San Francisco, CA, 03/14/2023  
Moderator, ASGE-TAGE Combined Clinical Symposium, DDW, San Diego, CA, 05/05/2025  
Judge- Plenary Session, ASGE World Cup of Endoscopy, Digestive Disease Week, San Diego, CA, 05/05/2025

### **Regional**

Invited Speaker, "Non-Cardiac Chest Pain", Grand Rounds, Beaver Dam, WI, 2000  
Invited Faculty, American Osteopathic College of Radiology Mid-Year Course, Detroit, MI, 2009  
Invited Faculty, American Osteopathic College of Radiology Mid-Year Course, Detroit, MI, 2009  
Invited Faculty, Course on GI Stents, American Society of Gastrointestinal Endoscopy, Chicago, IL, 03/2010  
ASGE Hands-on Stents Training Post Graduate Course, Digestive Disease Week, Chicago, IL, 05/2011  
Invited Faculty, Stent Course, ASGE, Chicago, IL, 06/2011  
Invited Faculty, FYF Course, ASGE West Region, Chicago, IL, 08/2011  
Invited Faculty, DDW, American Society of Gastrointestinal, Chicago, IL, 2011  
Invited Faculty, Chicago Live Therapeutic Endoscopy Course, Digestive Disease Week, Chicago, IL, 2012  
Invited Faculty, American Society of Gastrointestinal Endoscopy Hands on Stents Training Post Graduate Course, Digestive Disease Week, Chicago, IL, 2014  
Invited Faculty, Dysphagia Research Society, Chicago, IL, 03/2015  
Invited Faculty, Grand Rounds, Marquette General Hospital, Marquette, MI, 2016  
Invited Speaker, Midwest Endoscopy Society, 2017  
Invited Speaker, Endoscopy Course, Detroit, MI, 03/03/2018  
Invited Faculty, 10th Anniversary of Chicago Live, Chicago, IL, 09/27/2018 - 09/29/2018  
Invited Speaker, Endoscopy Course, Detroit, Michigan, 2018  
Ascension St. John Hospital & Medical Center's 4th Annual Endoscopic Conference, Birmingham, MI, 04/13/2019  
Invited Faculty, American Society of Gastroenterology Minneapolis Course, Minneapolis, MN, 2019  
Invited Faculty, Detroit Live, Detroit, MI, 2019  
"Repairing Esophageal Defects with Tissue Engineering", Annual International Digestive Disease Week, Chicago, IL, 05/2023  
Invited Faculty "EUS-FNS-ERCP: One-Stop-Shop for Respectable Pancreas Cancer", Digestive Disease Week, Chicago, IL, 05/2023  
Colorectal Cancer: A Gastroenterologist's Perspective, Sharing Insights on Cancer Care (SHINE) Conference, Medical College of Wisconsin,, 12/04/2024

### **Local**

"Glottal Functions and Pharyngeal Bolus Transit During Normal Eating and Drinking", Medical College of Wisconsin Dysphagia Institute Research Seminar Series, Medical College of Wisconsin, Milwaukee, WI, 1994  
"Mechanism and Timing of Nasopharyngeal Closure During Swallowing and Belching", Digestive Disease Research Seminar, Medical College of Wisconsin, Milwaukee, WI, 1994  
"Chronic Pancreatitis: The Role of Endoscopic Intervention", Practical Issues in Gastroenterology; An Update on GI Problems Encountered in Clinical Practice, Medical College of Wisconsin, Milwaukee, WI, 1994  
Live demonstration, Sphincter of Oddi Manometry Course, Medical College of Wisconsin, Milwaukee, WI, 1994

"Maintaining Oral Nutrition in Patients with Malignant Esophageal Lesions", Practical Issues in Gastroenterology; An Update on GI Problems Encountered in Clinical Practice, Medical College of Wisconsin, Milwaukee, WI, 1995

Live Demonstration - Unsedated Transnasal Pharyngoesophagogastrouodenoscopy, Spectrum of Dysphagia: The Role of Latest Technology in Diagnosis and Management, Medical College of Wisconsin, Milwaukee, WI, 1996

"Acute Pancreatitis ", Elmbrook Hospital CME program, Milwaukee, WI, 09/1998

"Oro-Gastric Pathway in Esophageal Cancer", GI Update Course, Medical College of Wisconsin, Milwaukee, WI, 10/1998

"Stents for Palliation of Esophageal Cancer", Dysphagia Research Institute, Medical College of Wisconsin, Milwaukee, WI, 10/1998

"Endoscopic Intervention in Pancreatic Disorders", Grand Rounds, Department of Medicine, Medical College of Wisconsin, Milwaukee, WI, 09/1999

"Unsedated, Transnasal, Upper GI Endoscopy", Division of Gastroenterology and Hepatology, Medical College of Wisconsin, Milwaukee, WI, 10/1999

"Noncardiac Chest Pain", Grand Rounds, Beaver Dam, WI, 2000

Speaker, Digestive Disease Center, Medical College of Wisconsin, Milwaukee, WI, 2001

"Esophageal and Aerodigestive Tract Disorders: Real World Challenges", Faculty and Organizing Committee, Milwaukee, WI, 2003

Pancreas Cancer Symposium, Milwaukee, WI, 02/2010

Invited Faculty, Pancreas Cancer Symposium, Milwaukee, WI, 02/2011

Foregut Symposium, Milwaukee, WI, 2014

Invited Faculty, Pancreas Cancer Symposium, Milwaukee, WI, 2014

"Re-Growing the Human Esophagus: Fact of Fiction?", Grand Rounds, Medical College of Wisconsin, Milwaukee, WI, 2014

Invited Speaker, Milwaukee GI Society, Milwaukee, WI, 2015

Invited Speaker, Pancreas Cancer Symposium, Milwaukee, WI, 08/01/2018 - 08/02/2018

"Endoscopic Management of Esophageal Leaks, Fistula and Perforation", Milwaukee, WI, 08/02/2019

Midwest Endoscopy Society, Milwaukee, WI, 10/2019

"Management of Benign Esophageal Strictures", GI Fellowship Board Review, Medical College of Wisconsin, 05/03/2023

## **MCW TEACHING ACTIVITIES:**

### **Medical Student Education**

1992 - Present Yearly Physical Diagnosis Course, Student rotating with GI consult team

### **Resident and Fellow Education**

1992 - Present Training Residents Flexible Sigmoidoscopies

1992 - Present Training G.I. Fellows Diagnostic and Therapeutic Endoscopies with special interest in advanced pancreaticobiliary endoscopy, metal stents for the G.I. tract and Endoscopic Ultrasound

2010 - Present Director of the Advanced GI Endoscopy Program

### **Continuing Medical Education**

Several CME presentations at the Medical College of Wisconsin and national and international grand rounds.

## **EXTRAMURAL TEACHING:**

### **Resident and Fellow Education**

2010 - Present Director of the Advanced GI Endoscopy Program So far trained 12 candidates (one per year, Instructors in Medicine, MCW) with over 70% joining academic medicine after completing training.

2021 - Present Teaching Medicine Residents at Rwanda Medical School University, Kigali, Rwanda (through Global Health Program)

2021 - Present Teaching and hands-on training GI Fellows at Rwanda Medical School University, Kigali, Rwanda (through Global Health Program)

2021 - Present Present Teaching Medicine Residents at Rwanda Medical School University, Kigali, Rwanda (through Global Health Program), <https://www.mcw.edu/mcwknowledge/mcw-stories/mcw-faculty-join-collaborative-partnership-to-train-gastroenterologists-in-rwanda>  
<https://infoscope.mcw.edu/NewsCenter/MCWNews/King-Faisal-Hospital-delegation-visits-MCW.htm>

## **EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS**

### **MENTORED:**

#### **Graduate Students**

- 2000 Elective rotation, Internal Medicine Resident. Research project on effect of alcohol on pharyngo-UES contractile reflex and reflexive pharyngeal swallow. Results from this work were presented at the annual Digestive Disease Week.
- 2001 Elective rotation, Internal Medicine Resident. Research project on effect of gastroesophageal reflux disease on pharyngo-UES contractile reflex and reflexive pharyngeal swallow. Results from this work were presented at the annual Digestive Disease Week
- 2002 Elective rotation, Internal Medicine Resident. Research project on effect of gastroesophageal reflux disease with laryngitis pharyngo-UES contractile reflex and reflexive pharyngeal swallow. Results from this work were presented at the annual Digestive Disease Week.
- 2003 Accepted a medical student for Aberdeen, U.K. for 8 week elective to do retrospective analysis on acute G.I. bleeding.
- G.I. Fellow mentorship on several endoscopy related research projects (e.g. ERCPs in children, anti-reflux esophageal stent, acute GI bleeders, sphincter of Oddi manometry, etc.). These have resulted in manuscripts and presentations at several national meetings.

### **COMMUNITY SERVICE ACTIVITIES:**

- Support for education of 6 children in third world country through Save the Children Organization, and Family Service Center.
- Teaching in Africa (online and in-person): Ethiopia, Nigeria, Sudan, Rwanda
- Support for community projects through Oxfam

### **INVENTIONS/PATENTS:**

- 2002 Self-expanding, metal, esophageal stent with anti-reflux valve. Stents deployed across the gastroesophageal junction for palliating malignant dysphasia can predispose to reflux including to risks of aspiration. A newly developed anti-reflux valve (Dua) was attached to the lower end of an expandable metal esophageal stent and this modification was shown to be effective in reducing GE reflux without interfering with the primary function of the stent, i.e. relieving dysphasia (Dua et al, *Gastrointestinal Endows* 53:6:603-613, 2001). The ability of the windsock valve to invert at high-pressure gradients between the stomach and the esophagus allows for belching and vomiting. Once inverted, the valve can easily be reverted to its anti-reflux position by swallowing water. In a prospective randomized study from Europe (Laash HU, et al. Effectiveness of open versus ant reflux stents for palliation of distal esophageal carcinoma and prevention of symptomatic gastro esophageal reflux. *Radiology* 2002;225(2):359-365), this anti-reflux stent was compared to an "open" stent in 50 patients with lower esophageal cancers. Twenty-four of the 25 patients randomized to the open stent developed reflux symptoms and one patient died within 24 hrs with aspiration after stent placement. Only 3 of the 25 patients with the Dua anti-reflux stent complained of reflux symptoms and there were no deaths. FDA 510- K cleared Dua anti-reflux stent
- 08/2006 Anti-reflux Plastic Biliary Stent Duodenobiliary reflux has been considered as one of the contributing factors for biliary stent occlusion. A newly developed anti-reflux biliary stent (Marathon Stent also referred to as Dua Biliary Stent) was shown to remain patent for a longer time as compared to an open stent in a prospective randomized study done on patients with malignant bile duct strictures (Dua et al, *Impact of reducing duodenobiliary reflux on biliary stent patency: an in vitro evaluation and a prospective randomized clinical trial that used a biliary stent with an antireflux valve. Gastrointest Endosc* 65:819-28, 2007.). This stent got FDA 510-K clearance for use in the US and is also cleared for use in Canada and Europe.

2007 Hydroflush biliary stone extraction balloon. This catheter uses mechanical and hydrostatic forces to extract common bile duct stones. It has received a modification of existing device 510K FDA clearance.

2016 - Present First human case of re-growing the esophagus using principles of regenerative medicine (Dua et al The Lancet 2016)

#### **QUALIFICATIONS:**

1972 B.Sc. I, Institute of Science, Nagpur University, India

1976 M.D. (M.B.B.S.), Bachelor of Medicine and Bachelor of Surgery; equivalent to M.D. of U.S.A. as defined by the Educational Commission for Foreign Medical Graduates (E.C.F.M.G.), Nagpur University, India

1980 D.M.Sc. (Internal Medicine) Thesis on "ECG changes in patients with COPD"

1984 M.R.C.P. (U.K.), Royal College of Physicians, United Kingdom

1988 D.N.B. (Gastroenterology), Diplomat of the National Board in Gastroenterology, India

1990 F.I.A.M.S. (Gastroenterology), Fellow of the Indian Academy of Medical Specialists in Gastroenterology, India

1998 F.R.C.P. (Edinburgh), Fellow of the Royal College of Physicians of Edinburgh, U.K.

1999 F.A.C.P. Fellow of the American College of Physicians

2004 F.R.C.P. (London), Fellow of the Royal College of Physicians of London, U.K.

2006 F.A.S.G.E Fellow of the American Society of Gastrointestinal Endoscopy

2022 M.A.S.G.E Master of the American Society of Gastrointestinal Endoscopy

#### **BIBLIOGRAPHY**

##### **Refereed Journal Publications/Original Papers**

1. Dube GK, Waghela JD, **Dua KS**, Chaubey BS: Juvenile pernicious anaemia - a case report. Indian Medical Gazette, CXV:282-284; 1981.
2. **Dua KS**, Brunt PW: Chronic hepatitis. Physician India, 3:515-521;1986.
3. **Dua KS**, Mowat NA. Familial Crohn's disease, including spouse. Scott Med J. 1988 Dec;33(6):372-3.
4. Shah S, **Dua KS**, Zubaidi G: Therapeutic endoscopies - our experience in Oman. Oman Medical Gazette, VII:2-5;1990
5. Sharma S, **Dua KS**, Zubaidi G: Acute upper gastrointestinal bleeding in Omani patients. Oman Medical Gazette, VII:29-30;1990.
6. Shabir S, **Dua KS**, Zubaidi G: Two year experience of esophageal variceal sclerotherapy in Oman. Oman Medical Gazette, VII:6-9;1990.
7. Koruth NM, **Dua KS**, Brunt PW, Matheson NA. Comparison of highly selective vagotomy with truncal vagotomy and pyloroplasty: results at 8-15 years. Br J Surg. 1990 Jan;77(1):70-2.
8. Trifan A, Shaker R, Ren J, Mittal RK, Saeian K, **Dua K**, Kusano M. Inhibition of resting lower esophageal sphincter pressure by pharyngeal water stimulation in humans. Gastroenterology. 1995 Feb;108(2):441-6.
9. Ren J, Shaker R, Kusano M, Podvrsan B, Metwally N, **Dua KS**, Sui Z. Effect of aging on the secondary esophageal peristalsis: presbyesophagus revisited. Am J Physiol. 1995 May;268(5 Pt 1):G772-9.
10. **Dua K**, Shaker R, Ren J, Arndorfer R, Hofmann C. Mechanism and timing of nasopharyngeal closure during swallowing and belching. Am J Physiol. 1995 Jun;268(6 Pt 1):G1037-42.
11. **Dua KS**, Ruan E, Shaker R. Transnasal pharyngoesophagogastroduodenoscopy (T-PEGD) in a patient with acute upper gastrointestinal bleeding. Endoscopy. 1996 Aug;28(6):530.
12. Dean R, **Dua K**, Massey B, Berger W, Hogan WJ, Shaker R. A comparative study of unsedated transnasal esophagogastroduodenoscopy and conventional EGD. Gastrointest Endosc. 1996 Oct;44(4):422-4.
13. **Dua KS**, Stewart E, Arndorfer R, Shaker R. Esophageal intramural pseudodiverticulosis associated with achalasia. Am J Gastroenterol. 1996 Sep;91(9):1859-60.
14. Sherman S, Lehman G, Earle D, Watkins J, Freeman M, Parker H, Ryan M, Barnett J, Johanson J, Geenen J, Silverman W, Yakshe P, Slivka A, Flueckiger J, Uzer M, Goff J, **Dua K**, Aliperti G, Jones W. Does prophylactic steroid administration reduce the frequency and severity of post-ERCP pancreatitis?: Randomized prospective multicenter study Gastrointestinal Endoscopy. 1996;43(4):320.
15. **Dua KS**, Ren J, Bardan E, Xie P, Shaker R. Coordination of deglutitive glottal function and pharyngeal bolus transit during normal eating. Gastroenterology. 1997 Jan;112(1):73-83.

16. Bardan E, Xie P, Ren J, **Dua K**, Shaker R. Effect of pharyngeal water stimulation on esophageal peristalsis and bolus transport. *Am J Physiol*. 1997 Feb;272(2 Pt 1):G265-71.
17. Bardan E, Xie P, Ren J, **Dua K**, Shaker R. Effect of pharyngeal water stimulation on esophageal peristalsis and bolus transport. *Am J Physiol (Gastrointest. Liver Physiol)*, 35:G265-G271;1997.
18. Sherman S, Lehman G, Earle D, Watkins J, Barnett J, Johanson J, Freeman M, Geenen J, Ryan M, Parker H, Lazaridis E, Flueckiger J, Silverman W, **Dua K**, Aliperti G, Yakshe P, Uzer M, Jones W, Goff J. Risk factors for post-ERCP pancreatitis: A prospective multicenter study *Gastrointestinal Endoscopy*. 1997;45(4).
19. Sherman S, Lehman G, Earle D, Watkins J, Barnett J, Johanson J, Freeman M, Geenen J, Ryan M, Parker H, Lazaridis E, Flueckiger J, Slivka A, **Dua K**, Aliperti G, Yakshe P, Uzer M, Jones W, Goff J. Does obesity increase the incidence and severity of post-ERCP pancreatitis? *Gastrointestinal Endoscopy*. 1997;45(4).
20. Sherman S, Lehman G, Earle D, Watkins J, Barnett I, Johanson J, Freeman M, Geenen I, Ryan M, Parker H, Lazaridis E, Fogel E, Flueckiger J, Silverman W, **Dua K**, Aliperti G, Yakshe P, Uzer M, Jones W, Goff J. Does prophylactic oral steroid administration reduce the frequency and severity of post-ERCP pancreatitis?: Randomized prospective multicenter study *Gastrointestinal Endoscopy*. 1997;45(4).
21. **Dua K**, Rochling F, Saeian K, Shaker R. Use of self-expanding metal stents (SEMS) for palliation of malignant esophageal obstruction/tracheo-esophageal (TE) fistula in patients with previously placed esophageal stents *Gastrointestinal Endoscopy*. 1997;45(4).
22. Evans J, Bohorfoush AG, Carron D, Shaker R, **Dua K**. Endoscopic management of bile leaks *Gastrointestinal Endoscopy*. 1997;45(4).
23. Rochling FA, **Dua K**, Saeian K, Bohorfoush AG, Shaker R. Treatment of malignant esophageal stricture and tracheo-esophageal fistula with self-expanding metal stents *Gastrointestinal Endoscopy*. 1997;45(4).
24. **Dua K**, Bardan E, Ren J, Sui Z, Shaker R. Effect of chronic and acute cigarette smoking on the pharyngo-upper oesophageal sphincter contractile reflex and reflexive pharyngeal swallow. *Gut*. 1998 Oct;43(4):537-41. PMID: PMC1727281
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26. Saeian K, Townsend WF, Rochling FA, Bardan E, **Dua K**, Phadnis S, Dunn BE, Darnell K, Shaker R. Unsedated transnasal EGD: an alternative approach to conventional esophagogastroduodenoscopy for documenting *Helicobacter pylori* eradication. *Gastrointest Endosc*. 1999 Mar;49(3 Pt 1):297-301.
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28. Saeian K, Townsend WF, Rochling FA, Bardan E, **Dua K**, Phadnis S, Dunn BE, Darnell K, Shaker R. Unsedated transnasal Esophago-gastroduodenoscopy (T-EGD): An alternative approach to documenting *Helicobacter pylori* eradication. *Gastrointest Endosc*,49:297-301; 1999.
29. Bardan E, Xie P, Bresseur J, **Dua K**, Ulualp SO, Kern M, Shaker R. Effect of ageing on the upper and lower oesophageal sphincters. *Eur J Gastroenterol Hepatol*. 2000 Nov;12(11):1221-5.
30. **Dua KS**, Kozarek R, Kim J, Evans J, Medda BK, Lang I, Hogan WJ, Shaker R. Self-expanding metal esophageal stent with anti-reflux mechanism. *Gastrointest Endosc*. 2001 May;53(6):603-13.
31. **Dua KS**. Antireflux stents in tumors of the cardia. *Am J Med*. 2001 Dec 03;111 Suppl 8A:190S-196S.
32. Catalano MF, Geenen JE, Lehman GA, Siegel JH, Jacob L, McKinley MJ, Rajzman I, Meier P, Jacobson I, Kozarek R, Al-Kawas FH, Lo SK, **Dua KS**, Baille J, Ginsberg GG, Parsons W, Meyerson SM, Cohen S, Nelson DB, McHattie JD, Carr-Locke DL. "Tannenbaum" Teflon stents versus traditional polyethylene stents for treatment of malignant biliary stricture. *Gastrointest Endosc*. 2002 Mar;55(3):354-8.
33. Saeian K, Staff D, Knox J, Binion D, Townsend W, **Dua K**, Shaker R. Unsedated transnasal endoscopy: a new technique for accurately detecting and grading esophageal varices in cirrhotic patients. *Am J Gastroenterol*. 2002 Sep;97(9):2246-9.
34. Shaker R, **Dua KS**, Ren J, Xie P, Funahashi A, Schapira RM. Vocal cord closure pressure during volitional swallow and other voluntary tasks. *Dysphagia*. 2002;17(1):13-8.
35. **Dua K**, Staff D, Shaker R. Clinical trial report: Therapies for GERD: Long-term Outcomes. *Current Gastroenterology Reports*. 4(3):183-183;2002.

36. Saeian K, Staff D, Knox J, Binion D, Townsend W, **Dua K**, Shaker R. Unsedated transnasal endoscopy: a new technique for accurately detecting and grading esophageal varices in cirrhotic patients. *Am J Gastroenterol*. 2002 Sep;97(9):2246-9.
37. Nakeeb A, Tran KQ, Black MJ, Erickson BA, Ritch PS, Quebbeman EJ, Wilson SD, Demeure MJ, Rilling WS, **Dua KS**, Pitt HA. Improved survival in resected biliary malignancies. *Surgery*. 2002 Oct;132(4):555-63; discussion 563-4.
38. **Dua K**, Staff D, Shaker R. Clinical trial report: Endoscopic Suturing for GERD. *Current Gastroenterology Reports*. 4(3):185-187; 2002.
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40. **Dua K**, Bardan E, Ren J, Sui Z, Shaker R. Effect of chronic and acute cigarette smoking on the pharyngoglottal closure reflex. *Gut*. 2002 Dec;51(6):771-5. PMID: PMC1773456
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