

## Curriculum vitae *(As on 21<sup>st</sup> June 2007)*

Name: ***Uday Chand Ghoshal***

Date of birth: 3<sup>rd</sup> January 1962

Civic status Married, 2 children



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### ***Academic qualification***

Examinations	University	Division	Year	% of marks
<b>MBBS</b>				
1 <sup>st</sup> professional	University of Burdwan	University 1 <sup>st</sup> position Honors* in all subjects	1982	81.7
2 <sup>nd</sup> professional	University of Burdwan	University 1 <sup>st</sup> position Honors* in Pharmacology	1984	71.7
Final professional	University of Burdwan	University 1 <sup>st</sup> position Honors* in Eye & ENT	1986	63.6
<b>MD</b> (Medicine)	PGIMER, Chandigarh		July 1991	
<b>DNB</b> (Medicine)	NBE, New Delhi		April 1992	
<b>DM (Gastro)</b>	SGPGI, Lucknow		August 1994	

. \* Honors: > 75% marks.

## ***Experience***

Positions held	Institutions	Nature of job	From	To
Compulsory rotating internship	Burdwan medical college & hospital	Patients' service	January 1986	December 1986
Housestaffship First 6 mo: Medicine 2 <sup>nd</sup> 6 mo: Chest medicine	Burdwan medical college & hospital	Patients' service	January 1987	December 1987
Housestaffship Psychiatry	Burdwan medical college & hospital	Patients' service	January 1988	June 1988
Junior residency (Medicine)	PGIMER, Chandigarh	Service, teaching, research	July 1988	June 1991
Senior residency (Gastro)	SGPGI, Lucknow	Service, teaching, research	January 1992	January 1995
Senior research associate (CSIR)	Dept. of Gastro, IPGMER & SSKM, Calcutta	Service, teaching, research	April 1995	March 1996
Medical officer	Dept. of Gastro, IPGMER & SSKM, Calcutta	Service, teaching, research	April 1996	April 2000
Assistant professor	Dept. of Gastro, SGPGI, Lucknow	Service, teaching, research. <b><i>Developing luminal Gastroenterology and GI motility</i></b>	April 2000	June 2004
Associate professor	Dept. of Gastro, SGPGI, Lucknow	Service, teaching, research. <b><i>Developing luminal Gastroenterology and GI motility</i></b>	July 2004	Contd.

### ***Summary of experience***

*Total teaching experience:*

*19 years*

*Total period of experience in Gastroenterology:*

*15 years 6 mo*

*Total post-DM teaching and research experience in Gastroenterology: 12 years 3 mo*

***Medical registration No.*** 45600 (In West Bengal Medical Council)

### *Foreign assignments*

Period of visit		Institute/country	Purpose of visit
From	To		
26 <sup>th</sup> May 2002	30 <sup>th</sup> May 2002	Kyoto, Japan	Received YIA Travel Grant to present papers in 26 <sup>th</sup> International Congress of Internal Medicine
26 <sup>th</sup> September 2003	30 <sup>th</sup> September 2003	Singapore	To present papers including a Presidential Award Paper in Asia Pacific Digestive Disease Week 2003
15 <sup>th</sup> February 2004	16 <sup>th</sup> February 2004	Dhaka, Bangladesh	To deliver an invited talk in 12 <sup>th</sup> Annual Convention of Bangladesh Society of Gastroenterology
July 2004	For 6 mo	University of Manchester, Hope Hospital, Salford M68HD, UK	Selected for fellowship (International Collaboration Programme of the Indian National Science Academy; <b><i>However, did not avail this</i></b> )
11 <sup>th</sup> February 2005	13 <sup>th</sup> February 2005	Dhaka, Bangladesh	To deliver an invited talk in 13 <sup>th</sup> Annual Convention of Bangladesh Society of Gastroenterology
28 <sup>th</sup> October 2005	2 <sup>nd</sup> November 2005	Honolulu, Hawaii, USA	To present paper in 70 <sup>th</sup> Annual Conference of American Society of Gastroenterology
4 <sup>th</sup> November 2005	9 <sup>th</sup> November 2005	Mayo Clinic, Scottsdale, Arizona, USA	Visiting Clinician
25 <sup>th</sup> November 2006	30 <sup>th</sup> November 2006	Cebu City, Philippines	To present Presidential Award Paper in Asia Pacific Digestive Disease Week
27 <sup>th</sup> April 2007	28 <sup>th</sup> April 2007	Dhaka, Bangladesh	To deliver an invited talk in 14 <sup>th</sup> Annual Convention of Bangladesh Society of Gastroenterology
7 <sup>th</sup> July 2007	12 <sup>th</sup> July 2007	Hamad Medical Corporation, Doha, Qatar	Invited as Visiting Consultant to train them in GI Motility

### ***Awards, prizes***

1. Burdwan university *Gold Medal* in Physiology
2. Burdwan university *Gold Medal* in Anatomy
3. Burdwan university *Gold Medal* in Pharmacology
4. Burdwan university *Gold Medal* in Eye & ENT
5. Dr. SN Mukherjee *Gold Medal* in Physiology
6. Dr. SN Mukherjee *Gold Medal* in Anatomy
7. Dr. SN Mukherjee *Gold Medal* in Pathology
8. Dr. SN Mukherjee *Gold Medal* in Pharmacology
9. Dr. P Roy best graduate of the year award
10. Prepulsid motility award for best paper presentation on motility in 37<sup>th</sup> Annual Conference of Indian Society of Gastroenterology in October 1996.
11. J Mitra Memorial Award for best scientific contribution to Indian J Gastroenterol in the year 1997.
12. Prize in poster session in 38<sup>th</sup> Annual Conference of Indian Society of Gastroenterology in November 1997.
13. Best paper award for the paper presented in Annual Conference of Society of Gastrointestinal Endoscopy of India during 40<sup>th</sup> annual conference of I.S.G at Calcutta in November 1999.
14. Best paper award for the paper presented in Annual Conference of Society of Gastrointestinal Endoscopy of India during 41<sup>st</sup> annual conference of I.S.G at New Delhi in November 2000.
15. **Young investigator award** during 42<sup>nd</sup> Annual Conference of the **Indian Society of Gastroenterology** for the best paper in young investigator award session in November 2001 at Lucknow (Ghoshal UC, Ghoshal U, Ayyagari A, Misra A, Aggarwal R, Naik SR. Tropical sprue is associated with aerobic bacterial contamination of small bowel and prolonged orocecal transit time. Indian J Gastroenterol 2001; 20, suppl 2: A5).
16. Co-author of the paper (Banerjee R, Das A, Ghoshal UC, Sinha M. Predicting mortality in patients with cirrhosis with application of neural network technology.

Indian J Gastroenterol 2001; 20, suppl 2: A2), which received best paper award in plenary session award during 42<sup>nd</sup> Annual Conference of the Indian Society of Gastroenterology in November 2001 at Lucknow.

17. **Hoechst Om Prakash Memorial award (2002)** for best research papers in the country among young gastroenterologists.
18. **YIA grant in 26<sup>th</sup> International Congress of Internal Medicine at Kyoto, Japan, 26<sup>th</sup> to 30<sup>th</sup> May, 2002.**
19. Co-author of the paper (Kumar R, Ghoshal UC, Kumar A, Mittal RD. Role of *O. formigenes* in patients with inflammatory bowel disease with hyperoxaluria and/or renal stones in northern India: A prospective controlled study. Indian J Gastroenterol 2002; 21, suppl 1: A3) that received young investigator award in 43<sup>rd</sup> Annual Conference of the Indian Society of Gastroenterology during 20-26<sup>th</sup> November 2002 at Cochin.
20. Prize for the poster entitled "Recurrent duodenal ulcer hemorrhage: A pharmaco-economic comparison of various management strategies" during 44<sup>th</sup> Annual Conference of the Indian Society of Gastroenterology at Chennai in 2003.
21. **Shakuntala Amir Chand Award 2001** from the **Indian Council of Medical Research.**
22. Presentation of **paper in Presidential Award Session in Asia Pacific Digestive Disease Week 2003 at Singapore**
23. Prize for the poster entitled "Hydrogen breath tests for diagnosis of small intestinal bacterial overgrowth in malabsorption syndrome: Does prolonged oro-cecal transit time influence development of bacterial overgrowth?" during 45<sup>th</sup> Annual Conference of the Indian Society of Gastroenterology at Jaipur in September 2004.
24. Prize for poster entitled "Capsule endoscopy for obscure gastrointestinal bleed ..." during 46<sup>th</sup> Annual Conference of the Indian Society of Gastroenterology at Visakhapatnam in November 2005.
25. **Presidential Paper Award in Asia Pacific Digestive Disease Week 2006 at Cebu, Philippines.**
26. Indian Society of Gastroenterology Asia Pacific Digestive Disease Week Travel Grant to attend this meeting in Philippines.

27. **ISG-Win Medicare plenary session award** for best paper (Colonic transit time by radio-opaque markers to investigate refractory constipation: Validation of a new protocol for population with rapid gut transit) in plenary session award during 47<sup>th</sup> Annual Conference of the Indian Society of Gastroenterology in November 2006 at Mumbai.
28. **Indian J Gastroenterol Award** for second best paper in the journal in the year 2006

### ***Membership of academic societies***

1. Life member of Indian Society of Gastroenterology (No. LM 551)
2. Life member of Indian Association for Study of the Liver.
3. Member of National Academy of Sciences, India
4. International Member of American Gastroenterology Association (ID No. 0000283982)
5. Member of American Motility Society (No. 637)
6. Member of American College of Gastroenterology (Member ID# 23032)
7. Life member of Pediatric Gastroenterology Chapter of Indian Academy Pediatrics
8. Member of National Telemedicine Society
9. Life member of National Magnetic Resonance Society
10. Life member of Society of Gastrointestinal Endoscopy of India (LM 0576)
11. Life member of Association of Physicians of India (No.L-13318, dated 14.2.2007)

### ***Areas of interest in research***

1. Gastrointestinal motility and reflux
2. Malabsorption syndrome
3. *Helicobacter pylori* infection
4. Gastrointestinal cancer
5. Inflammatory bowel disease
6. Mathematical modeling in Gastroenterology

### ***Other academic achievements***

- Governing council member, Indian Society of Gastroenterology 2003 to 2006
- Included in Marquis Who's Who in the World, 18<sup>th</sup> Edition, 2001
- Included in Who'sWho in Medicine and Healthcare 6<sup>th</sup> Edition 2006-2007
- Included in Who'sWho in Asia
- Member of “The Research Board of Advisors”, “The American Biographical Institute” since 2001.

### ***Editorial Board Membership of National & International Journals***

- Indian J Gastroenterol
- International Journal of Cancer Research (Associate Editor)
- Journal of Medical Sciences

### ***Peer reviewer***

#### ***International Journals***

- Gastroenterology
- Gut
- J Gastroenterol Hepatol
- BMC Gastroenterology
- International Journal Artificial Intelligence in Medicine
- Clinical Gastroenterology & Hepatology (A journal of American Gastroenterology Association)
- Nature Clinical Practice Gastroenterology & Hepatology (A journal of American College of Gastroenterology)
- Pakistan Journal of Biological Sciences
- Journal of Medical Sciences
- Research J Microbiology

***National journals***

- Indian J Gastroenterol
- Natl Med J India
- J Postgraduate Medicine
- Indian J Med Sci
- Indian J Surgery

***Peer Reviewer of the project***

- Project reviewer for Indian Council of Medical Research

### *International collaboration*

Center	Year	Name of the collaborator	Outcome
University of Nebraska Medical Center, Omaha, Nebraska	1997	Carol R Angle	Randomized controlled trial of 2,3 Di Mercaptosuccinic acid in therapy of chronic arsenicosis due to drinking arsenic contaminated subsoil water. <i>Clinical Toxicology</i> 1998; 36: 683-90.
Armed Forces Institute of Pathology, Washington, DC	1997	Jose A Centeno	Do
Cedar-Sinai Medical Center GI Motility Program 8635 W. 3rd Street, Suite 770 Los Angeles, California USA 90034	2006	Mark Pimentel	Research project submitted to ACG: Frequency of small intestinal bacterial overgrowth in patients with irritable bowel syndrome in tropics: Role of interleukin-1 and its receptor antagonist and effect of eradication of bacterial overgrowth
Mayo Clinic, Scottsdale, Arizona, USA 85259	2006	Ananya Das	Prediction of mortality from cirrhosis using neural network technology. <i>Eur J Gastroenterol Hepatol</i> (in press)

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### ***National collaboration***

Center	Year	Name of the collaborator	Outcome
ITRC, Lucknow	2005-	Dr. AK Agarwal	Gastric carcinogenesis and <i>H. pylori</i> infection
National Institute of Cholera and Enteric Diseases, Kolkata	2006-	Asish Kumar Mukhopadhyay	Comparative genomics of <i>Helicobacter pylori</i> strains isolated from patients in northern India (Project submitted to CSIR, Government of India)
Science and Instrument Center, Burdwan University, Burdwan	1998	Prof. AK Bhattacharya Dr. Srinkanta Chakraborty	Scanning electron microscopy of gastric tissue

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### ***Examiner***

- Internal Examiner for DM at SGPGI, Lucknow (2006-)
- Thesis examiner for MD of PGIMER, Chandigarh
- PhD Examiner The Tamilnadu Dr. MGR Medical University, Chennai
- DM thesis examiner, The Tamilnadu Dr. MGR Medical University, Chennai
- PhD thesis examiner Manipal Academy of Higher Education
- DM thesis examiner, University of Delhi South Campus, Benito Juarez Road, New Delhi 110021

***Supervisory role for DM, MD and PhD works***

Sl. No	Year	Subject	Role	Name of the candidate	Degree
1	2005	Role of Glutathione – S – Transferase, microsomal Epoxide Hydrolase and Fragile Histidine Triad in gastric carcinogenesis	Guide	Shweta Tripathi	PhD
2	2005	Gastro-esophageal Reflux Disease and Helicobacter pylori: Possible role of IL-1 $\beta$ , IL-8 and ERK in gastric mucosal injury altering severity of the disease	Guide	Dipti Chaurasia	PhD
3	2001	Etiological spectrum of malabsorption syndrome in northern Indian adults	Guide	Piyush Ranjan	DM
4	2002	Predictors of outcome of acute severe ulcerative colitis	Guide	Sanjay Kumar	DM
5	2002	Frequency and clinical significance of antroduodenal dysmotility in gallbladder cancer	Co-guide	S Sachdeva	DM
7	2003	Antroduodenal manometry in malabsorption syndrome	Guide	Kshaunish Das	DM
8	2004	Lactose intolerance in irritable bowel syndrome in northern India	Guide	Dinesh Gupta	DM
9	2003	Pathogenesis of <i>H. pylori</i> -induced gastritis and peptic ulcer	Co-guide	Ashish Saxena	PhD
10	2005	Anal sphincter morphology in patients with fecal incontinence	Guide	Manish Paliwal	DM
11	2006	Genetic susceptibility of gastroduodenal diseases in northern India	Co-guide	BR Achyut	PhD

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### ***Administrative responsibilities***

- Governing council member, Indian Society of Gastroenterology 2003 to 2006.
- National Coordinator: Indian Society of Gastroenterology Task Force on Irritable bowel syndrome
- Honorary Secretary, UP chapter of Indian Society of Gastroenterology since October 2006
- Nodal officer: Gastrointestinal pathophysiology and motility laboratory, Department of Gastroenterology, SGPGI, Lucknow
- Executive member of Faculty Club, SGPGI, Lucknow 2002-2003
- Assistant Provost, Hostel Warden Committee, SGPGI, Lucknow
- Member of Examination cell, SGPGI, Lucknow
- Member of hospital computerization committee, SGPGI, Lucknow

### ***Teaching and training interest beyond Gastroenterology***

Actively organized and participated several training courses on Computers, Biostatistics and Research Methodology in different places in the country.

### ***Service to popularize science and welfare of public and society***

- Participated in several community health projects such as survey of an outbreak of hepatitis E in Kanpur in 1991, offered health service to Leprosy rehabilitation home of Mother Teresa at Mohanlalganj, Lucknow from 1991-1994, hepatitis screening in children with thalassemia at Burdwan, West Bengal during 1997-2000, community health service in a rural community (Chandrawal) at Lucknow
- Member of **Health Oriented Program & Education (HOPE)** initiative ([www.hope.org.in](http://www.hope.org.in)).
- Conceptualized, designed, maintained **Shanti Patient-related Education and Directions (SPREAD)**, an attempt towards welfare of patients by spreading health education in three languages, English, Hindi and Bengali ([www.spread.net.in](http://www.spread.net.in)).

## ***Peer-reviewed publications***

### **International**

1. Das A, **Ghoshal UC**. Determinants of portal hypertensive gastropathy re-considered (letter). *Gastroenterology* 1992; 103: 1990.
2. **Ghoshal UC**, Poddar U, Yachha SK. Spontaneous bacterial peritonitis in a child with abdominal lymphoma. *Acta Oncologica* 1995; 34: 531.
3. Yachha SK, **Ghoshal UC**, Gupta R, Sharma BC, Ayyagari A. Portal hypertensive gastropathy in children with extrahepatic portal venous obstruction: role of variceal obliteration by endoscopic sclerotherapy and *Helicobacter pylori* infection. *J Pediatric Gastroenterol Nutr.* 1996; 23: 20-3.
4. Sharma BC, Yachha SK, Kulshrestha A, **Ghoshal UC**, Kumar A. Duodenocolic fistula in a child. *Pediatric Surgery* 1995; 10: 396-7.
5. **Ghoshal UC**, Saraswat VA, Yachha SK. Association of splenic vein obstruction and celiac disease in an Indian patient. *J Hepatol* 1995; 22: 358.
6. Yachha SK, Dhiman RK, Gupta R, **Ghoshal UC**. Endosonographic evaluation of rectum in children with extrahepatic portal vein obstruction. *J Pediatric Gastroenterol Nutr.* 1996; 23: 438-41.
7. Sharma BC, Saraswat VA, Dhiman RK, **Ghoshal UC**, Sikora SS. Unusual causes of splenoportal venous obstruction. *HPB surgery* 1996; 9: 165-7.
8. **Ghoshal UC**, Saraswat VA, Aggarwal R, Misra A, Dhiman RK, Naik SR. Esophageal motility and gastroesophageal reflux: effects of variceal obliteration by endoscopic sclerotherapy. *J Gastroenterol Hepatol* 1998; 13: 1033-8.
9. De BK, **Ghoshal UC**, Das T, Santra A, Biswas P. Endoscopic variceal ligation for primary prophylaxis of esophageal variceal bleed: Preliminary report of a randomized controlled trial. *J Gastroenterol Hepatol* 1999; 14: 220-4.
10. Mazumder DN, **Ghoshal UC**, Saha J, Santra A, Chakraborty D, Angle CR. Randomized controlled trial of 2,3 Di Mercaptosuccinic acid in therapy of chronic arsenicosis due to drinking arsenic contaminated subsoil water. *Clinical Toxicology* 1998; 36: 683-90.

11. **Ghoshal UC**, Saha J, Ghoshal U, Ray BK, Santra A, Naik S, Guha Mazumder DN. Pigmented nail and *Strongyloides stercoralis* infestation causing clinical worsening in a patient treated for immunoproliferative small intestinal disease: Two unusual observations. *J Diarrhoeal Dis Research* 1999; 17: 43-5.
12. **Ghoshal UC**, Dhar K, Chaudhuri S, Pal BB, Pal AK, Banerjee PK. Esophageal motility changes after endoscopic intravariceal sclerotherapy with absolute alcohol. *Dis Esophagus* 2000; 13: 148-51.
13. Mahindra S, Yaccha SK, Srivastava A, Krishnani N, Aggarwal R, **Ghoshal UC**, Prasad KK, Naik SR. Celiac disease in Asian Indian children: Anthropometric and histological study. *J Pop Health Nutr* 2001; 19: 204-8.
14. **Ghoshal UC**, Chowdhury S, Pal BB, Dhar K, Ray G, Banerjee PK. Randomized controlled trial of intrasphincteric botulinum toxin injection versus balloon dilatation in treatment of achalasia cardia. *Dis Esophagus* 2001; 14: 227-231.
15. **Ghoshal UC**, Ghoshal U, Kumar A, Jain A, Aggarwal R, Misra A, Ayyagari A, Naik SR. *Strongyloides stercoralis* infestation associated with septicemia due to intestinal transmural migration of bacteria. *J Gastroenterol Hepatol* 2002; 17: 1331-3.
16. **Ghoshal UC**, Guha D, Bandyopadhyay S, Pal C, Chakraborty S, Ghoshal U, Ghosh TK, Pal BB, Banerjee PK. Gastric adenocarcinoma in a patient re-infected with *H. pylori* after regression of MALT lymphoma with successful anti-*H. pylori* therapy and gastric resection. *BMC Gastroenterology* 2002; 2: 6.  
<http://www.biomedcentral.com/1471-230X/2/6>
17. **Ghoshal UC**, Ghoshal U, A Ayyagari, P Ranjan, N Krishnani, A Misra, R Aggarwal, S Naik, SR Naik. Tropical sprue is associated with contamination of small bowel with aerobic bacteria and reversible prolongation of oro-caecal transit time. *J Gastroenterol Hepatol*. 2003; 18: 540-7.
18. Aggarwal R, **Ghoshal UC**, Naik SR. Assessment of cost-effectiveness of universal hepatitis B immunization in a low-income country with intermediate endemicity using a Markov model. *J Hepatol* 2003; 38: 215-22.
19. Aggarwal R, **Ghoshal UC**. Cost-effectiveness of hepatitis B immunization: It is not “garbage-in, garbage-out”. *J Hepatol* 2003; 39: 134-5.

20. Banerjee R, Das A, **Ghoshal UC**, Sinha M. Predicting mortality in patients with cirrhosis of liver with application of neural network technology. *J Gastroenterol Hepatol* 2003; 18: 1054-1060.
21. Ghoshal U, **Ghoshal UC**, Ranjan P, Naik SR, Ayyagari A. Spectrum of antibiotic sensitivity of bacteria contaminating upper gut in patients with malabsorption syndrome in the tropics. *BMC Gastroenterology* 2003; 3: 9.  
<http://www.biomedcentral.com/1471-230X/3/9>
22. **Ghoshal UC**, Aggarwal R, Baba CS. Recurrent peptic ulcer hemorrhage: A pharmaco-economic comparison of various management strategies (Invited article). *Expert Opin Pharmacother* 2003; 4: 1593-1603.
23. Somani S, **Ghoshal UC**, Saraswat VA, Aggarwal R, Misra A, Krishnani N, Naik SR. Correlation of esophageal pH and motor abnormalities with endoscopic severity of reflux esophagitis. *Dis Esophagus* 2004; 17: 59-63.
24. Singh MK, Pandey UB, **Ghoshal UC**, Venu S, Kapoor VK, Mittal B, Choudhuri G. Apolipoprotein B-100 Xba1 gene polymorphism in gallbladder cancer. *Hum Genet* 2004; 114: 280-3.
25. Bala L, Nagana Gowda GA, **Ghoshal UC**, Misra A, Bhandari M, Khetrapal CL. <sup>1</sup>H NMR spectroscopic method for the diagnosis of malabsorption syndrome: A pilot study. *NMR in Biomedicine* 2004; 17: 69-75.
26. Kumar S, **Ghoshal UC**, Aggarwal R, Saraswat VA, Choudhuri G. Severe ulcerative colitis: A prospective study of the parameters determining outcome. *J Gastroenterol Hepatol* 2004; 19: 1247-52..
27. Kumar R, **Ghoshal UC**, Singh G, Mittal RD. Infrequency of *Oxalobacter formigenes* in inflammatory bowel disease: Possible role in renal stone formation. *J Gastroenterol Hepatol* 2004; 19: 1403-9.
28. **Ghoshal UC**, Ghoshal U, Misra A, Choudhuri G. Partially responsive celiac disease resulting from small intestinal bacterial overgrowth and lactose intolerance. *BMC Gastroenterology* 2004; 4: 10. <http://biomedcentral.com/1471-230X/4/10>
29. **Ghoshal UC**, Kumar S, Saraswat VA, Aggarwal R, Misra A, Choudhuri G. Long-term follow-up after pneumatic dilation for achalasia cardia: Factors associated with treatment failure and recurrence. *Am J Gastroenterol* 2004; 99: 2304-10.

30. Kishore J, Ghoshal U, **Ghoshal UC**, Krishnani N, Kumar S, Singh M, Ayyagari A. Infection with Cytomegalovirus in patients with inflammatory bowel disease: Prevalence, clinical significance and outcome. *J Med Microbiol* 2004; 53: 1155-60.
31. Mittal RD, Bid HK, **Ghoshal UC**. IL-1 Receptor Antagonist (IL-1ra) gene polymorphism in Patients with Inflammatory Bowel Disease in northern India. *Scand J Gastroenterol* 2005; 40: 827-31.
32. Jain M, Kumar S, Rastogi R, Lal P, **Ghoshal UC**, Tiwari A, Pant MC, Baiq MQ, Mittal B. *GSTT1*, *GSTM1* and *GSTP1* genetic polymorphisms and interaction with tobacco, alcohol and occupational exposure in esophageal cancer patients from North India. *Cancer Letter* 2006; 242: 60-67.
33. Singh K, **Ghoshal UC**. Causal role of *Helicobacter pylori* in gastric cancer: An Asian enigma. *World J Gastroenterol* 2006; 12: 1346-51.
34. Bala L, **Ghoshal UC**, Ghoshal U, Tripathi P, Misra A, Nagana Gowda GA, Khetrapal CL. Malabsorption syndrome with and without small intestinal bacterial overgrowth: A study on upper gut aspirate using <sup>1</sup>H NMR spectroscopy. *Magn Reson Med* 2006; 56: 738-44.
35. Mittal RD, Manchanda PK, Bid HK, **Ghoshal UC**. Analysis of Polymorphisms of Tumor Necrosis Factor- $\alpha$  and Polymorphic Xenobiotic Metabolizing Enzymes in Inflammatory Bowel Disease: A study from northern India. *J Gastroenterol Hepatol* 2007; 22: 920-4.
36. Gupta D, **Ghoshal UC**, Misra A, Misra A, Choudhuri G, Singh K. Lactose intolerance in patients with irritable bowel syndrome from northern India: a case control study. *J Gastroenterol Hepatol* 2007 Jun 7.
37. Jain M, Kumar S, Lal P, Tiwari A, **Ghoshal UC**, Mittal B. Role of *GSTM3* polymorphism in the risk of developing esophageal cancer. *Cancer Epidemiol Biomarkers Prev* 2007; 16: 178-181.
38. Jain M, Kumar S, **Ghoshal UC**, Mittal B. Association of ECRG2 TCA short tandem repeat polymorphism with histology, lymph node involvement and interaction with smoking, alcohol, occupational exposure in increased risk of esophageal cancer. *Annals of Oncology* (in press).

39. Moorchung N, Srivastava AN, Gupta NK, **Ghoshal UC**, Achyut BR, Mittal B. Cytokine gene polymorphism and pathology of chronic gastritis. Singapore Medical Journal 2007; 48: 447-454.
40. **Ghoshal UC**, Tripathi S, Ghoshal U. The Indian enigma of frequent *H. pylori* infection but infrequent gastric cancer: Is the magic key in Indian diet, host's genetic make up or friendly bug? Am J Gastroenterol (in press).
41. Jain M, Kumar S, Lal P, **Ghoshal UC**, Mittal B. Role of BCL2 (ala43thr), CCND1 (G870A) and FAS (A-670G) polymorphisms in modulating the risk of developing esophageal cancer. Cancer Detect Prev. 2007 Jun 8
42. **Ghoshal UC**, Tiwari S, Dhingra S, Pandey R, Ghoshal U, Singh H, Gupta VK, Nagpal AK, Naik S, Ayyagari A. Frequency of *Helicobacter pylori* and CagA Antibody in Patients with Gastric Neoplasms and Controls: The Indian Enigma. Dig Dis Sci (in press).

### National

43. **Ghoshal UC**, Kochhar R, Goenka MK, Chakraborty A, Talwar P, Mehta SK. Fungal colonization of untreated peptic ulcer. Indian J Gastroenterol 1994; 13: 115-7.
44. Yachha SK, **Ghoshal UC**. Hepatitis C virus infection in pediatric practice. Indian Pediatrics 1993; 30: 739-44.
45. Yachha SK, **Ghoshal UC**. Luminal gastrointestinal diseases and Indian J Gastroenterol (special article). Indian J Gastroenterol 1993; 12 (suppl 1): S 20-1.
46. Puri AS, Gupta R, **Ghoshal UC**, Khan EM, Aggarwal R, Naik SR. Sulfone syndrome: hepatitis or cholestasis? Indian J Gastroenterol 1995; 14: 20.
47. Puri AS, Puri J, **Ghoshal UC**, Sharma BC, Saraswat VA, Ayyagari A, Naik SR. Frequency, microbial spectrum and outcome of spontaneous bacterial peritonitis in North India. Indian J Gastroenterol 1996; 15: 86-9.
48. **Ghoshal UC**, Aggarwal DK, Choudhuri G. Association of digital clubbing with corrosive stricture of esophagus. Indian J Gastroenterol 1995; 14: 112.

49. Sharma BC, Saraswat VA, Choudhuri G, Das A, **Ghoshal UC**, Pande R. Primary biliary cirrhosis without pruritus: an Indian variant. *Trop Gastroenterol* 1996; 17: 176-7.
50. Naik SR, **Ghoshal UC**. Low grade pyrexia: is chronic fatigue syndrome a safe and justified diagnosis? (letter) *J Assoc Physicians India*. 1995; 43: 725-6.
51. **Ghoshal UC**, Mukherjee S, De BK, Das P, Sarkar S, Guha Mazumder DN. Subacute hepatic failure in viral hepatitis A. *Indian J Gastroenterol* 1997; 16: 109.
52. Puri AS, Poddar U, **Ghoshal UC**, Khan EM, Saraswat VA. Rapid reversal of manifestations of acquired zinc deficiency in alcoholic cirrhosis with diet therapy. *Tropical Gastroenterol* 1995; 17: 119-22.
53. Sinha P, **Ghoshal UC**, Choudhuri G, Naik S, Ayyagari A, Naik SR. Does *Entamoeba histolytica* cause irritable bowel syndrome? *Indian J Gastroenterol* 1997; 16: 130-3.
54. Ghosh A, **Ghoshal UC**, Kochhar R, Ghoshal P, Banerjee PK. Infectious mononucleosis hepatitis: report of two patients. *Indian J Gastroenterol* 1997;16:113-4
55. **Ghoshal UC**, Gupta R, Aggarwal R, Puri AS, Naik SR. Intestinal lymphangiectasia: Presentation in pregnancy and association with Herpes zoster and alopecia. *Indian J Gastroenterol* 1997; 16: 159-60.
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### ***Books & monographs***

91. **Ghoshal UC**, Naik SR. Recent concepts in drug treatment of chronic duodenal ulcer. *GI surgery annual* 1995.
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97. **Ghoshal UC**. Gastroduodenal motility disorders with special emphasis on gastroparesis. In: GI Surgery Annual. AIIMS, New Delhi.
98. **Ghoshal UC**. Constipation. In: API Textbook of Medicine, 8<sup>th</sup> edition. 2006
99. **Ghoshal UC**. Recent advances in inflammatory bowel disease. Medicine Update, Volume 17, 2007, published by Association of Physicians of India.

### ***Participation as faculty member in national and international conferences***

Sl. No.	Date	Subject taught	Details of the conference and the organizer
1	18-20 <sup>th</sup> Nov, 1994	Demonstration of esophageal manometry	Department of Gastroenterology, SGPGI, Lucknow
2	April 1998	Management of chronic hepatitis C	West Bengal Academy of Science and Technology and Burdwan Medical College at Burdwan, West Bengal
3	August 1999	Management of gastroesophageal reflux disease	SGPGI Gastroenterology Clinics, Department of Gastroenterology, SGPGI, Lucknow
4	21-22 November 1999	Demonstration of esophageal manometry	First Indo US endoscopy workshop during 40 <sup>th</sup> Annual Conference of Indian Society of Gastroenterology
5	2000	Principles and methods of D-xylose and fecal fat estimation	SGPGI Gastroenterology Clinics, Dept. of Gastroenterology
6	12-16 September 2001	Technique and interpretation of anorectal manometry	Indian Digestive Disease Week, Bhopal Memorial hospital and Digestive Disease

Sl. No.	Date	Subject taught	Details of the conference and the organizer
			Foundation of Bhopal.
7	23 - 29 November 2001	1. Case-based approach to GI motility disorders 2. Indian data on Crohn's disease	42 <sup>nd</sup> Annual Conference of the Indian Society of Gastroenterology, SGPGI, Lucknow
8	5-6 October 2002	Portal hypertension in children: Etiology and clinical presentation in India	XII National Conference of Pediatric Gastroenterology, Kolkata
9	7-8 December 2002	Dyspepsia: Is there an answer to it?	"Medicine update" organized by central command hospital, Lucknow
10	15-16 December 2002	<i>Helicobacter pylori</i> infection in children	XXI WB Pedicon (XXI IAP West Bengal State Conference), Burdwan
11	15-16 March 2003	Pathophysiology of irritable bowel syndrome	12 <sup>th</sup> Annual Conference of Bihar & Jharkhand chapter of Indian Society of Gastroenterology (IGMS, Patna)
12	19 April 2003	Risk stratification of GI bleed and prophylaxis for stress ulcer bleed	Mid-term conference of the ISG (Theme: Emergencies in Gastroenterology) by KEM Hospital, Mumbai
13	10-11 May 2003	1. Evaluation of anorectal function 2. Management of fecal evacuation disorders	Mid-term conference of the ISG (Theme: Colonic diseases) organized by St. John Hospital, Bangalore
14	5-11 June 2003	Medical decision analysis and cost-effectiveness analysis	01 course at SGPGI, Lucknow
15	20-24 September 2003	1. Data of ISG IBS Task Force 2. Etiology of MAS in India	44 <sup>th</sup> Annual Conference of the ISG at Chennai
16	15-16 February 2004	Approach to patients with chronic diarrhoea	11 <sup>th</sup> Annual Convention and Scientific Seminar of Bangladesh Gastroenterology Society
17	3-4 April 2004	Clinical relevance of GI motility	Mid-term meeting of the Indian Society of Gastroenterology organized by AIIMS, New Delhi
18	April 10 2004	Pathogenesis and spectrum of GI lymphoma	Annual Conference of the West Bengal Chapter of the ISG at Kolkata
19	24-25 July 2004	Material and Method section of a paper	Training Workshop on Scientific Communication at Industrial Toxicology Research Center, Lucknow
20	August 7, 2004	Management of GI bleed	Medical Emergencies and their management. CME organized by the Dept. of Surgery, Command Hospital (CC), Lucknow
21	October 16, 2004	Malabsorption syndrome in the tropics	Tropical Medicine Update organized by Command Hospital (CC), Lucknow

Sl. No.	Date	Subject taught	Details of the conference and the organizer
22	6-9 January 2005	Investigations and management of constipation in children	42 <sup>nd</sup> National Conference of the Indian Academy of Pediatric at Kolkata
23	12-13 February 2005	<i>H. pylori</i> , gastric cancer and lymphoma: An Asian enigma	12 <sup>th</sup> Annual Convention and Scientific Seminar of Bangladesh Gastroenterology Society
24	26-27 February 2005	Visceral sensation in irritable bowel syndrome	16 <sup>th</sup> Annual Conference of ISG (UP Chapter) by Department of Gastroenterology, Institute of Medical Sciences, Banaras Hindu University, Varanasi
25	27-29 March, 2005	Demonstration of anorectal manometry	6 <sup>th</sup> Annual Conference of Society of Gastrointestinal Endoscopy of India, Kolkata
26	9-10 April 2005	Motor dysphagia	Annual meeting of the Tamilnadu Chapter of Indian Society of Gastroenterology at Ooty
27	October 4, 2005	Colonic adynamic ileus	9 <sup>th</sup> Advanced Instructional Course in Coloproctology, Lucknow
28	5-9 October, 2005	1. Etiology & pathogenesis of fecal incontinence 2. Is manometry essential in fecal incontinence?	28 <sup>th</sup> National Conference of the Association of Colon and Rectal Surgeons of India, Lucknow
29	October 23, 2005	Capsule endoscopy in obscure GI bleed	3 <sup>rd</sup> Gastroenterology Update at Lucknow
30	November 8, 2005	Malabsorption syndrome in the tropics	Mayo Clinics, Scottsdale, Arizona, USA
31	November 13, 2005	ISG Task Force data on irritable bowel syndrome	46 <sup>th</sup> Annual Conference of the ISG at Visakhapattanam.
32	18 <sup>th</sup> February 2006	Investigations in constipation	Amrita Institute of Medical Sc, Cochin & Kerala Chapter of Indian Society of Gastroenterology
33	11 <sup>th</sup> to 15 <sup>th</sup> April 2006	Clinical differentiation of Crohn's disease and intestinal tuberculosis	Mid-term conference of Indian Society of Gastroenterology organized by Kasturba Medical College, Manipal
34	28-29 <sup>th</sup> April 2006	1. Diarrheal disease in HIV infection 2. Approach to fecal incontinence	Mid-term conference of Indian Society of Gastroenterology organized by West Bengal Chapter of ISG
35	6-7 <sup>th</sup> May 2006	Choosing and performing statistical tests for comparison of two or more variables and correlation and regression analysis	Biomedical Statistics Workshop organized by Himalayan Institute of Medical Sciences at Dehradun
36	26 <sup>th</sup> May 2006	Approach to patients with chronic diarrhea	National Medical College, Kolkata
37	22 <sup>nd</sup> August 2006	Clinical application of motility studies in GI practice	Tamilnadu Chapter of Indian Society of Gastroenterology at Chennai

Sl. No.	Date	Subject taught	Details of the conference and the organizer
38	7 <sup>th</sup> October 2006	<ol style="list-style-type: none"> <li>Lecture: Diagnosis of GERD</li> <li>Moderator of panel discussion on a patient with obscure GI bleed</li> </ol>	UP chapter of Indian Society of Gastroenterology Annual Meeting at Agra
39	8 <sup>th</sup> October 2006	Lectures (oral communication & statistical methods on data analysis) and coordination of a session on research methodology	XVith National Conference of Indian Association of Surgical Gastroenterology organized by Department of Surgical Gastroenterology of SGPGI, Lucknow
39	14 <sup>th</sup> October 2006	Presentation of Indian Society of Gastroenterology Task Force data on IBS	KEM hospital, Mumbai
40	15 <sup>th</sup> October 2006	<ol style="list-style-type: none"> <li>Debate: Capsule endoscopy should be done before double balloon endoscopy in obscure GI bleed (for the motion)</li> <li>Moderated case discussion on malabsorption</li> </ol>	Small bowel workshop (Mid-term meeting of Society of Gastrointestinal Endoscopy of India Organized by Appollo Glenegles Hospital, Kolkata
41	30 <sup>th</sup> October 2006	<ol style="list-style-type: none"> <li>Pathophysiology of small bowel motility</li> <li>Clinical application of gastroduodenal motility</li> </ol>	Update on Motility disorders organized by Superspeciality of Gastroenterology, PGIMER, Chandigarh
42	10 <sup>th</sup> November 2006	Presentation of Indian Society of Gastroenterology Task Force data on IBS	47 <sup>th</sup> Annual Conference of ISG at Mumbai
43	3 <sup>rd</sup> December 2006	Immunoproliferative small intestinal disease in India	GB Pant Hospital, New Delhi
44	21 <sup>st</sup> January 2007	<ol style="list-style-type: none"> <li>Workshop on Research Methodology</li> <li>Recent advances in obscure GI bleeding</li> </ol>	66 <sup>th</sup> Bengal State Medical Conference of Indian Medical Association at Burdwan Medical College
45	16 <sup>th</sup> to 18 <sup>th</sup> February 2007	Recent advances in inflammatory bowel disease	62 <sup>nd</sup> Annual Conference of Association of Physicians of India
46	7 <sup>th</sup> March 2007	Medical application of electron microscopy in gastrointestinal diseases	National workshop of scanning electron microscopy organized by University Science and Instrumentation Center, University of Burdwan, West Bengal
47	9 <sup>th</sup> March 2007	Nuclear magnetic resonance in malabsorption syndrome	Center of Biomedical Magnetic Resonance Imaging, Lucknow
48	18 <sup>th</sup> March 2007	Emergencies in Gastroenterology	IMA College of General Practitioners, Kanpur Branch
49	24 <sup>th</sup> March 2007	Debate: Step-up approach is better than step-down	Mid-term Conference in management IBD (An Endo-US Conference) arranged by

Sl. No.	Date	Subject taught	Details of the conference and the organizer
		approach in management Crohn's disease	AIIMS, New Delhi
50	21-22 April 2007	1. Panel Discussion on IBS 2. Panel discussion on Celiac disease	IX Rajasthan Chapter of Indian Society of Gastroenterology meeting at Udaipur
51	28 <sup>th</sup> April 2007	Obscure GI bleed: Is it obscure any more?	14th Annual Convention of Bangladesh Society of Gastroenterology
52	29 <sup>th</sup> April 2007	Recent advances in diagnostic evaluation of small bowel diseases	10 <sup>th</sup> Annual Conference of Indian Society of Gastroenterology (West Bengal Chapter) in Association with American Society of Gastroenterology

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### ***Conferences organized***

1. 40<sup>th</sup> Annual Conference of Indian Society of Gastroenterology, 21<sup>st</sup> to 22<sup>nd</sup> November 1999 at Calcutta.
2. First Indo US endoscopy workshop during 40<sup>th</sup> Annual Conference of Indian Society of Gastroenterology, 21<sup>st</sup> to 22<sup>nd</sup> November 1999 at Calcutta (Joint organizing secretary).
3. 42<sup>nd</sup> Annual Conference of the Indian Society of Gastroenterology, 23<sup>rd</sup> – 29<sup>th</sup> November 2001 at Lucknow (Joint organizing secretary).
4. Postgraduate Clinics in Gastroenterology 2003, 25<sup>th</sup> to 27<sup>th</sup> April 2003 (Organizing secretary).
5. A single theme conference “Alcohol and Gastroenterology” April 3 2005 (Organizing secretary).
6. 3<sup>rd</sup> SR Naik Memorial Workshop on Computers in Biomedical Sciences on 10<sup>th</sup> and 11<sup>th</sup> September 2005 (Organizing secretary).
7. 4<sup>th</sup> SR Naik Memorial Workshop on “Biomedical Research: Methods, Tools and Future” 23-24<sup>th</sup> September 2006 (Organizing secretary).
8. Global Convention & Expo on Telemedicine & e-Health. 17<sup>th</sup> – 22<sup>nd</sup> August 2006 at New Delhi, India (Local organizing committee member).
9. Mid-term Conference of Indian Society of Gastroenterology to be organized on 1<sup>st</sup> and 2<sup>nd</sup> September 2007 (Organizing secretary).

***Grant received/applied for***

Sl. No	Duration	Title and number	Role	Agency	Amount (INR)
1	2000-2001	Role of small bowel bacterial flora and GI transit time in tropical sprue.	PI	SGPGI	90,000
2	2002-2005	Prevalence of <i>Helicobacter pylori</i> infection and Cag A antibody status in patients with gastric carcinoma and controls: Possible mechanism of carcinogenesis involving apoptosis.	PI	ICMR	5,43,000
3	2004-2005	Pathogenesis of <i>Helicobacter pylori</i> associated gastroduodenal disease: Role of apoptosis and genetic polymorphism in bcl-2, c-myc and CASP-9 (an extension to project No. 2)	PI	ICMR	12,00,000
4	July 2006	Pathogenesis of tropical sprue: Study of antroduodenal manometry, duodenal of transit time, fat induced ileal brake and small intestinal manometry	PI	DST	17,45,000
5	2004-2005	Esophageal acidic reflux during nocturnal acid breakthrough in gastroesophageal reflux disease: Relationship with symptoms, lower esophageal sphincter pressure and body motility	PI	SGPGI	1,50,000
7	2006-	Promotion of hygiene and sanitation in rural schools in U.P. and its impact on health: A pilot study	Co-PI	UNICEF	2,88,400
8	Applied for	Small intestinal bacterial overgrowth and small intestinal permeability in patients with irritable bowel syndrome in tropics: Role of interleukin-1 and its receptor antagonist and effect of eradication of bacterial overgrowth	PI	DST	20,00,000

6	Applied for	Evaluation of utility of pepsinogen-I, pepsinogen-II and gastrin-17 serum levels in diagnosis of cancer- associated gastric mucosal lesions like intestinal metaplasia (IM) in patients with and without <i>H.</i> <i>pylori</i> infection in India.	PI	ICMR	1,99,000
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Abbreviation used: PI: Principal investigator. Co-PI: Co-investigator. SGPGI: Sanjay Gandhi Postgraduate Institute of Medical Sciences. ICMR: Indian Council of Medical Research. DST: Department of Science and Technology, Govt. of India.

### *International drug trials*

Sl. No	Year	Title	Role	Sponsor	CRA
1	2004	A randomized double blind trial of LdT (Telbivudine) versus Lamivudine in adults with compensated chronic hepatitis B	Co-PI	Idenix, USA	Novartis India Limited
2	2005	A phase III, randomized, multi-center, double, parallel group, active comparator study to compare the efficacy and safety of SPD476 (mesalazine) 2.4 g/d once daily (QD) with Asacol 1.6 g/day twice daily (BID) in the maintenance of remission in patients with ulcerative colitis	Co-PI	Shire Pharmaceutical Development, Ltd. Basingstoke, UK	PPD
3	2006	A phase 3 study to evaluate the safety and efficacy of TAK-390MR (60 mg QD and 90 mg QD) compared to placebo in maintenance of healing in subjects with healed erosive esophagitis	Co-PI	TAP Pharmaceutical Products Inc. 675 North Field Drive Lake Forest, IL 60045	

4	2006	A prospective multicentric comparative open label randomized parallel group phase II/III study to compare the safety and efficacy of different doses of S/C AVI-055-HCV III-0606 and oral Ribavirin with S/C Intron A and oral Ribavirin after study treatment of 24/28 weeks in subjects with previously untreated chronic HCV infection with any genotypes	PI	M/S BV feed supplements MFG Co Ltd.	SIRO Clinfarm Pvt. Ltd.
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Abbreviation used: PI: Principal investigator. Co-PI: Co-investigator. CRA: Contract research agency

**Abstract presented** (Names of the authors written in bold were the presenting authors)

International conferences

1. **Saraswat VA**, Ghoshal UC, Dhiman RK, Misra A, Naik SR. Esophageal dysmotility and gastroesophageal reflux after injection sclerotherapy. 2<sup>nd</sup> annual meeting of dysphagia research society at Wisconsin, USA, October 1993.
2. **Yaccha SK**, Gupta R, Sharma BC, Ayyagari A, Ghoshal UC. Portal hypertensive gastropathy and *Helicobacter pylori* infection in children with extrahepatic portal venous obstruction. World congress of Gastroenterology at Los Angeles, USA, October 1994.
3. **Yachha SK**, Kumar M, Sharma BC, Gupta R, Ghoshal UC. Endoscopic sclerotherapy and follow up of children with extrahepatic portal venous obstruction. World congress of Gastroenterology at Los Angeles, USA, October 1994.
4. **Ghoshal UC**, Ranjan P, Ghoshal U, Ayyagari A, Misra A, Aggarwal R, Naik S, Naik SR. Malabsorption syndrome in tropics: A prospective study of etiology, bacterial overgrowth and orocecal transit time. <http://www.knt-ec.com/event/icim/abstract/1-PO-5.html>; 1-PO-30.
5. **Ghoshal UC**, Das K, Misra A, Choudhuri G. Capsule endoscopy for obscure gastrointestinal bleeding: Preliminary report of a prospective study from India. 70<sup>th</sup> Annual Scientific Meeting of the American College of Gastroenterology, October 30-November 2, 2005 at Honolulu, Hawaii (Am J Gastroenterol 2005; 100 (suppl): s97).
6. Ghoshal UC, Tiwari S, Pandey R, et al. Frequency of *Helicobacter pylori* and CagA antibody in patients with gastric neoplasm and controls: The Indian enigma. 70<sup>th</sup> Annual Scientific Meeting of the American College of Gastroenterology, October 30-November 2, 2005 at Honolulu, Hawaii, USA (Am J Gastroenterol 2005; 100 (suppl): s64).
7. **Ghoshal UC**, Kumar S, Choudhuri G, et al. Long-term follow-up after pneumatic dilation for achalasia cardia: Predictors of non-response and recurrence. Asia Pacific Digestive Disease Week, 27-30 September 2003 at Singapore (J Gastroenterol Hepatol 2003; 18 (suppl): A12 (**Presidential Free Paper**)).
8. **Ghoshal U**, Kishore J, Ghoshal UC, et al. Infection with cytomegalovirus in patients with ulcerative colitis. Asia Pacific Digestive Disease Week, 27-30 September 2003 at Singapore (J Gastroenterol Hepatol 2003; 18 (suppl): A81).
9. **Sharma V**, Saraswat VA, Ghoshal UC, Sachdeva S, Aggarwal R, Choudhuri G. Profile of malignant extrahepatic biliary obstruction (EHBO) at a north Indian tertiary care center. 16<sup>th</sup> World Congress of the International Association of Surgeons & Gastroenterologist. May 25-28, 2006 at Madrid, Spain (Hepatogastroenterology 2006; 53 (suppl 1): pp 83).
10. **Sharma V**, Saraswat VA, Ghoshal UC, Ghoshal U, Sachdeva S, Choudhuri G. Spontaneous bacterial peritonitis (SBP) in patients with liver cirrhosis in a north Indian hospital. 16<sup>th</sup> World Congress of the International Association of Surgeons & Gastroenterologist. May 25-28, 2006 at Madrid, Spain (Hepatogastroenterology 2006; 53 (suppl 1): pp 97).

11. **Sharma V**, Saraswat VA, Ghoshal UC, Ghoshal U, A Ayyagari, Sachdeva S, Choudhuri G. Spontaneous bacterial empyema (SBEM) in Indian patients with liver cirrhosis. 16<sup>th</sup> World Congress of the International Association of Surgeons & Gastroenterologist. May 25-28, 2006 at Madrid, Spain (Hepatogastroenterology 2006; 53 (suppl 1): pp 239).
12. Ghoshal U, Tripathi S, Mittal B, Tiwari S, Agarwal AK, Krishnani N, **Ghoshal UC**. Gastric carcinogenesis and *Helicobacter pylori*: Possible role of glutathione-S-transferase gene. Asian Pacific Digestive Disease Week at Cebu City, Philippines. November 26-29, 2006. (J Gastroenterol Hepatol 2006; 21 (suppl 6): A374
13. **Ghoshal UC**, Gupta D, Kumar A, Misra A. Colonic transit time by radio-opaque markers to investigate refractory constipation: Validation of a new protocol for population with rapid gut transit. Asian Pacific Digestive Disease Week at Cebu City, Philippines. November 26-29, 2006. (J Gastroenterol Hepatol 2006; 21 (suppl 6): A420.
14. **Ghoshal UC**, Kumar A, Das K, Saraswat VA, Sachdeva S, Misra A, Choudhuri G. Capsule endoscopy for obscure gastrointestinal bleeding: A prospective study from India. Asian Pacific Digestive Disease Week at Cebu City, Philippines. November 26-29, 2006. (J Gastroenterol Hepatol 2006; 21 (suppl 6): A491.
15. **Chalamalsetty SB**, Ghoshal U, Ghoshal UC, Alexander A, Misra A, Choudhuri G. Evaluation of small intestinal bacterial overgrowth in non-alcoholic steatohepatitis by jejunal aspirate quantitative culture. 108<sup>th</sup> Annual Meeting of the AGA Institute, May 19-24, 2007, Washington, DC. (Gastroenterol 2007; 132 (suppl 2): S2156.

#### National conferences

16. **Ghoshal UC**, Dhiman RK, Saraswat VA, Misra A, Naik SR. Esophageal dysmotility and gastroesophageal reflux after injection sclerotherapy. Plenary session, 34<sup>th</sup> annual conference of Indian Society of Gastroenterology at Goa, October 1993.
17. **Ghoshal UC**, Aggarwal R, Naik SR. Etiology of spontaneous exacerbation of hepatocyte necrosis in hepatitis B virus related chronic liver disease. 34<sup>th</sup> annual conference of Indian Society of Gastroenterology at Goa, October 1993.
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## ***Citation***

Most of the published papers are widely quoted. Citations of some of the papers are given below.

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