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**ZOBAIR M. YOUNOSSEI MD, MPH, FACP, FACG, AGAF, FAASLD**

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**PERSONAL INFORMATION**

- Date of Birth: November 5, 1959  
Citizenship: United States

**EDUCATION**

- **Doctor of Medicine, Alpha Omega Alpha** 1985-1989  
University of Rochester School of Medicine & Dentistry,  
Rochester, New York
- **Master of Public Health in Health Services Administration** 1992-1995  
San Diego State University School of Public Health,  
San Diego, California
- **Bachelor of Science in Biology** 1981-1984  
George Mason University, Fairfax, Virginia

**POST GRADUATE TRAINING**

- **Fellowship in Gastroenterology and Hepatology** 1992-1995  
Scripps Clinic & Research Foundation  
La Jolla, California
- **Internal Medicine Residency Program (categorical)** 1989-1992  
Scripps Clinic & Research Foundation  
La Jolla, California

**SCOPUS H-INDEX:** 72 (March 2018)

**PROFESSIONAL EXPERIENCE**

- **Chairman, Department of Medicine** 2011-Present  
Inova Fairfax Hospital, Falls Church, VA
- **Vice Chairman of the Board and Senior Medical Executive,** 2012-Present  
Inova Health System Foundation Board, Falls Church, Virginia
- **Vice President for Research** 2010-2018  
Inova Health System, Falls Church, Virginia
- **Executive Director of Research** 2006-2010  
Inova Health System, Falls Church, Virginia
- **Executive Director, Center for Liver Diseases** 2000-2011  
Inova Fairfax Hospital, Falls Church, Virginia
- **Medical Director, Inova Research Center** 2005-2006  
Inova Health System, Falls Church, Virginia
- **Medical Director, Liver Transplant Program** 2000-2006  
Inova Fairfax Hospital, Falls Church, Virginia
- **Professor of Medicine, Inova Fairfax Hospital** 2005-Present  
VCU- Inova Health System Campus, Falls Church, Virginia
- **Director, Translational Research Institute** 2005-2006  
Inova Fairfax Hospital, Falls Church, Virginia

- **Affiliate Professor of Biomedical Sciences, George Mason University** 2002-Present  
George Mason University, Fairfax, Virginia
- **Co-Director, Center for the Study of Genomics in Liver Diseases** 2002-2010  
George Mason University, Fairfax, Virginia
- **Staff Hepatologist, Department of Gastroenterology** 1995-2000  
The Cleveland Clinic Foundation, Cleveland, OH
- **Senior Researcher, I.H. Page Center for Outcomes Research** 1998-2001  
The Cleveland Clinic Foundation, Cleveland, OH
- **Associate Director, Gastroenterology Fellowship** 1998-2000  
The Cleveland Clinic Foundation, Cleveland, OH
- **Researcher, Molecular Cardiology Lab** Summer 1987  
NHLBI, National Institutes of Health, Bethesda, MD
- **Researcher, Molecular Biology Institute** Summer 1986  
University of California at Los Angeles, Los Angeles, CA
- **Staff Researcher, Mellon Institute** 1984-1985  
Carnegie - Mellon University, Pittsburgh, PA

### CERTIFICATIONS

- American Board of Internal Medicine, Internal Medicine 1992
- UNOS Qualified Transplant Physician 1995
- American Board of Internal Medicine, Gastroenterology 1995, 2005
- American Board of Internal Medicine, Gastroenterology
- American Board of Internal Medicine, Transplant Hepatology 2006, 2017

### LICENSURE

- Virginia License (Active)
- California License (Inactive)
- Ohio License (Inactive)

### HONORS AND AWARDS

- Castle Connolly. America's Top Doctors 2018
- Castle Connolly. America's Top Doctors 2017
- Castle Connolly. America's Top Doctors 2016
- Best Doctors in America 2017
- America's Best Physicians 2016
- America's Best Physicians. 2015
- Castle Connolly America's Top Doctor Award 2013
- Distinguished Alumnus award, COS, George Mason University 2012
- Washington-Baltimore-NorthVirginia Super Doctors, Washington Post Magazine 2012
- Top Doctors, Castle Connolly, Washington-Baltimore Area 2012
- Top Doctors, Castle Connolly, Washington DC Area 2011
- Best Doctors in America 2011
- Best Doctors in Virginia and Washington DC, Virginia Living Magazine 2011
- Alumni of the Year, College of Science, George Mason University 2008
- America's Top Physicians 2008
- George Mason University, COS, Outstanding Alumnus of the Year 2008
- Cambridge Who's Who 2007
- Best Doctors 2002
- Who's Who In Health Care 2002

- Top Doctors, Cleveland Magazine 1998
- Hanlon Award, San Diego State University 1995
- Outstanding Student Award, School of Public Health San Diego State University 1995
- Alpha Omega Alpha Honor Society, University of Rochester 1989
- Scholarship (High School) to Study in Villefranch de Roergue, France 1975

### BOARD MEMBERSHIPS

- Inova Health System Foundation Board, Member and Vice Chair 2011-Present
- American College of Gastroenterology Institute, Board Member 2013-Present
- Chronic Liver Disease Foundation (CLDF), Executive Board 2016-Present
- International Coalition of Hepatology Practices (IC-HEP), Global Council, Member 2013-Present
- International Coalition of Hepatology Practices (IC-HEP), Co-Chairman 2016-Present
- Global NASH Consortium, Chairman 2011-Present
- NASH Committee of CLDF, Chairman 2016-Present
- Board of Directors (Appointed by Governors T Kaine and B McDonnell of Virginia) 2011-2014
- Virginia Biotechnology Research Partnership Authority, 2008-2011
- Virginia Tobacco & Health Research Repository (VTHRR), Board of Directors 2010-2012
- Board of Directors, America Heart Association, Mid-Atlantic Affiliate 2013-2015

### JOURNAL REVIEWER AND EDITORIAL BOARD

- Liver International, **Co-Editor** 2014-Present
- Journal of Clinical and Experimental Hepatology, **Editorial Board Member** 2010-Present
- World Journal of Hepatology, **Editorial Board Member** 2009-Present
- Annals of Gastroenterology and Hepatology, **Editorial Board Member** 2009-Present
- Annals of Hepatology, **Editorial Board Member** 2008-2011
- Alimentary Pharmacology and Therapeutics, **Editorial Board Member** 2012-2016
- Journal of Clinical and Experimental Hepatology, **Editorial Board Member** 2012-Present
- “FACULTY OF 1000”, **Contributing member** 2009-2010
- Evidence Based Gastroenterology, **Associate Editor** 2000-2009
- Liver International, **Associate Editor** 2002-2005
- Hepatology, **Editorial Board Member** 2001-2004
- World Journal of Gastroenterology, **Editorial Board Member** 2006-Present
- The Open Obesity Journal, **Editorial Board Member** 2008-2010
- The Open Hepatology Journal, **Editorial Board Member** 2008-2010
- The Open Gastroenterology Journal, **Editorial Board Member** 2007-2010
- Hepatology, **Journal Reviewer** 1996-Present
- Annals of Internal Medicine. **Journal Reviewer** 2011-Present
- Liver International, **Journal Reviewer** 2002-Present
- Archive of Internal Medicine, **Journal Reviewer** 2006-Present
- Swiss Medical Weekly, **Journal Reviewer** 2002-2003
- Liver, **Journal Reviewer** 2000-Present
- Journal of Viral Hepatitis, **Journal Reviewer** 2000-2001
- Liver Transplantation, **Journal Reviewer** 2000-Present
- Journal of Hepatology, **Journal Reviewer** 2000-Present
- New England Journal of Med Weekly Briefings, **Medical Advisor** 2000-2001
- Annals of Internal Medicine, **Journal Reviewer** 2004-Present
- Journal of American Medical Association, **Journal Reviewer** 2004-Present
- Quality of Life Research, **Journal Reviewer** 1999-Present

- Gastroenterology, **Journal Reviewer** 1999-Present
- The American Journal of Medicine, **Journal Reviewer** 1999-2001
- Clinical Journal of Gastroenterology, **Journal Reviewer** 2000-Present
- American Journal of Gastroenterology, **Journal Reviewer** 1998-Present
- Cleveland Clinic Journal of Medicine, **Journal Reviewer** 1997-Present
- Mayo Clinic Proceedings, **Journal Reviewer** 1997-1998
- Gut, **Journal Reviewer** 2007-Present
- Annals of Medicine, **Journal Reviewer** 2007-Present
- Obesity Surgery, **Journal Reviewer** 2008-Present
- JAMA, **Journal Reviewer** 2014-Present
- NEJM, **Journal Reviewer** 2014-Present
- Lancet, **Journal Reviewer** 2015-Present

### PROFESSIONAL SOCIETIES

- International Liver Transplant Society (ILTS) 2018-Present
- The European Association for the Study of the Liver 2007-Present
- American College of Gastroenterology, Fellow (1999) 1995-Present
- American College of Physicians, Fellow (1997) 1994-Present
- American Society for Gastrointestinal Endoscopy 1995-Present
- American Gastroenterological Association, Fellow (2010) 1995-Present
- American Association for the Study of Liver Disease, Fellow (2015) 1995-Present
- Alpha Omega Alpha Society 1989-Present

### PUBLIC SERVICE

- Mid-Atlantic Affiliate Board, Board of Directors Member 2013-Present
- Virginia Biotechnology Research Park Authority, Member of Board of Directors (Appointed by Governor of Virginia) 2008-2014
- Inova Health System Foundation Board Member, Vice Chair, Physician Philanthropy 2011-Present
- Virginia Tobacco & Health Research Repository, Board Member 2010-2012
- National Anemia Action Council, Member of Board of Directors 2007-2008
- American Liver Foundation, the National Capital Area Chapter. Medical Advisory Board, Chairman 2001-2009
- American Liver Foundation, the National Capital Area Chapter. Member of Board of Directors 2001-2009
- American Liver Foundation Ohio Chapter, MAC Member 1996-2000
- Expert Advisor to American Liver Foundation and the Cleveland Health Museum to Develop Program for School Children 1997
- Expert Hepatologist for HCV Coalition to the State of Ohio 1999
- National Viral Hepatitis Roundtable, Washington D.C. Representing AASLD 2003

### NIH GRANT REVIEW COMMITTEES

- NIAAA: Hepatitis C Cooperative Centers, U-19 2000
- NIAID: Hepatitis C Cooperative Research Center, University of Tennessee CRC Committee 2001
- NIDDK: Esophageal Varices Grant Review Committee (ZDK, GRB-7) 2003

## **NATIONAL/INTERNATIONAL SOCIETIES' COMMITTEE MEMBERSHIP**

- American Association for the Study of Liver Diseases Development Committee, Member 2010-2014
- American College of Gastroenterology Practice Parameters Committee 2012-2014
- REALIZE Publication Committee, Member 2010
- Personalized Medicine Coalition, Member 2008-2011
- American College of Gastroenterology, American Association for the Study of Liver Disease and American Gastrointestinal Association Collaborative Practice Guideline Group on Nonalcoholic Fatty Liver disease 2009-2015
- American Association for the Study of Practice Guideline Group on Nonalcoholic Fatty Liver disease 2017-Present
- American Association for the Study of Liver Diseases Clinical Research Committee Member 2007-2009
- American Association for the Study of Liver Diseases International Relations Advisory Committee Member 2007-2009
- National Anemia Action Council Board of Directors, Member 2007-2008
- American Association for the Study of Liver Diseases Fatty Liver Abstract Committee Member 2006-2008
- American Association for the Study of Liver Diseases, Practice Guidelines Committee Member 2002-2006
- American Liver Foundation, the National Capital Area Chapter Medical Advisory Board, Chairman 2001-2009
- American College of Gastroenterology Research Committee Member 2001-2003
- American Association for the Study of Liver Diseases, Education Committee Member 1999-2001

## **LOCAL COMMITTEE MEMBERSHIP**

- Inova Research Oversight Committee, Chair 2008-2018
- Inova Research Council, Chair 2015-2018
- Inova Health System Foundation Board 2011-Present
- Inova Health System Foundation Board, Vice Chairman and Senior Medical Executive 2012-Present
- Inova Medical Group Leadership Committee 2011-2016
- Inova-GMU Joint Research Steering Council (Co-Chair) 2015-2018
- Inova Personalized Health Campus Action Committee 2016-2017
- Inova Personalized Health Campus Research Committee (Chair) 2016-2017
- Inova Medical Group Compensation Committee 2012-2015
- Inova Fairfax Hospital, Medical Executive Committee 2011-Present
- Growth Council Committee, Inova Fairfax Hospital 2011-2015
- IRC Executive Committee (Chair) 2003-2015
- Inova's Research Oversight Committee (Chair) 2009-2010
- Inova's Technology Assessment Committee (Member) 2008-Present

- Inova Fairfax Campus Council 2011-Present
- CME Advisory Committee, Inova Health System 2011-2015
- Inova Research Council (Member) 2009-2018
- Joint Operating Advisory Committee of Inova Fairfax Hospital 2010-2017
- Chair, Search Committee, Chairman of Department  
Obstetrics and Gynecology Inova Fairfax Hospital 2010-2011
- Inova Research Advisory Committee (Chair) 2008-2010
- Inova Fairfax Hospital's Blueprint for Action Committee (Member) 2008-2009
- Inova Liver Transplant Steering Committee (Member) 2000-2006
- Inova Fairfax Hospital, Regional Referral Task Force (Member) 2005-2010
- VCU-Inova Partnership Committee on Research (Co-chair) 2006-2007
- Personalized Medicine Committee, Inova Fairfax Hospital (Co-chair) 2007-2008
- Inova's Academic Advisory Committee (Member) 2005-2006
- Inova Transplant Section (Member) 2005-2006
- Inova Fairfax Hospital (IFH) Transplant Task Force (Member) 2006-2006
- Inova Institute of Research Steering Committee (Member) 2003-2005
- Virginia Commonwealth University's Committee on Translational Research 2005-2005
- Inova Transplant Center, Liver Transplant Selection Committee 2000-2006
- Inova Institute of Research, Physician Advisory Committee 2001-2003

## MEDIA EXPOSURE

- NBC's Today's Show. Story on Primary Sclerosing Cholangitis, 1996
- Cleveland Plain Dealer. Story on Liver Transplant and Liver Failure from Mushrooms 1997
- Local TV Channels in Cleveland. Stories on Mushroom-related Liver Failure 1997
- Local TV Channels in Cleveland. Stories on Hepatitis C 1997
- Local TV Channels in Northern Virginia. Story on Hepatitis C 2001
- Local TV Channels in Washington DC. Story on Hepatitis C, 2002
- National Public Broadcasting, Diane Rehm's Show. Story on Hepatitis C, 2002
- M.D. News Cover Feature 2003
- Cable News Network (CNN) Story on Hepatitis C, 2007
- Washington Post Story on Inova and Research. October 2007
- MedPage Today Story on Gene Expression of Hepatitis C. October 2007
- Newsweek, Times and Money Magazines, Translational Research with GMU, December 2007
- Voice of America Radio News Interview, December 2007
- Voice of America Television: Hepatitis and Africa Program, June 2008
- MedPage Today Interview: New Strategies in Liver Cancer and Hepatitis B, November 2008
- MedPage Today Interview: Hepatitis C Treatments Highlight AASLD Meeting. November 2008
- Washington Business Magazine: Inova-GMU Collaboration, January 2009
- ABC-TV Channel 8: Let's Talk Program on Brown Fat, April 2009
- MedPage Today. Metabolic Syndrome Hikes Mortality in Hepatitis C, April 2009
- Associated Press. Vitamin E and Non-alcoholic Fatty Liver Diseases. April 2010
- The Wall Street Journal, "Curing Hepatitis C Will Take More Than New Treatments". Nov 2010
- MNBC.com. "Vitamin E may be new boon for liver disease". April 2010
- Medscape. "Americans Are Getting Fatter, and so are their Livers". April 2011
- BioPharm Insight, "Hepatitis Vaccination in Patients with Chronic Liver Disease". 2012
- Reuters, "Even Moderate Drinking May be Risky with Hepatitis C". March 2013.
- Financial Times, "CDC Mulls New Strategies to Improve HCV Testing Required to Link Patients to Care". May 2013

- Virginia Living, “Breaking New Ground”. June 2013
- Virginia Business, June 2013
- Medscape: Update on NASH, July 2014
- Science Daily. Curing hepatitis C could yield huge economic benefit. May 2015.
- Medscape. Fatty Liver Disease Surging as Liver Cancer Cause. April 2015.
- Family Practice News Digital Network. How to recognize and treat nonalcoholic fatty liver disease. April 6, 2016.
- HealthDay. Hepatitis C-Infected Liver Transplants May Work Well for Those with the Virus. April 2016.
- U.S. News & World Report. Taking Steps to Cure Hepatitis C. June 2016.
- Clinical Oncology News. For Liver Cancer Treatment and Outcomes, Race Matters. August 2016
- WUSA9. Hepatitis A outbreak could produce more cases. August 2016.
- Lancet Gastro and Hepatology (Profiled). Zobair Younossi: pushing for the patient’s perspective. September 2016

## TEACHING ACTIVITIES

- |   |              |
|---|--------------|
| • Associate Program Director, Gastroenterology Fellowship,<br>Cleveland Clinic Foundation                         | 1998-2000    |
| • Teaching Attending for Gastroenterology Fellows and Hepatology<br>Advanced Fellows. Cleveland Clinic Foundation | 1995-2000    |
| • Teaching Staff, Internal Medicine Residents (Green Team)<br>Cleveland Clinic Foundation                         | 1995-2000    |
| • Medical Students Teaching Staff<br>Cleveland Clinic Foundation  | 1995-2000    |
| • Outpatient Hepatology Rotation for Internal Medicine Residents,<br>Cleveland Clinic Foundation                  | 1995-2000    |
| • Teaching Staff Hepatology Rotation, Gastroenterology Fellows<br>Walter Reed Medical Center                      | 2001-2005    |
| • Teaching Staff for Medical Students and Residents.<br>Inova Fairfax Hospital                                    | 2001-Present |
| • Teaching Staff for Gastroenterology Fellows,<br>George Washington University                                    | 2005-Present |
| • Research Fellowship Mentor for Silvia Bondini, MD<br>(University of Bologna)                                    | 2005-2006    |
| • Teaching Faculty, Virginia Commonwealth University<br>School of Medicine, Inova Campus                          | 2005-Present |
| • Doctoral Thesis Committee, Michael Estep, PhD Candidate,<br>George Mason University                             | 2003-Present |
| • Doctoral Thesis Committee, Mohammed H.Jarrar, PhD Candidate,<br>George Mason University                         | 2006-2008    |
| • Research Mentor to Students, Residents, and Fellows,<br>Inova Health System                                     | 2005-Present |
| • Advanced Hepatology Fellowship Mentor for Janus P. Ong, MD  | 2001-2003    |
| • Hepatology Clinical and Research Fellowship Mentor for Poonam Mishra, MD  | 2006-2007    |
| • Hepatology Clinical and Research Fellowship Mentor for Nila Rafiq, MD   | 2007-2009    |
| • Hepatology Research Fellowship Mentor, Pegah Golabi, MD   | 2015-Present |
| • Hepatology Research Fellowship Mentor, Mehmet Sayiner, MD   | 2015-2016    |

## CLINICAL, TRANSLATIONAL AND OUTCOMES RESEARCH

### *Investigator- initiated Research Projects*

1. Non-Alcoholic Fatty Liver Disease Multi-Step Approach to Pathologic Definition, Natural History, Pathophysiology and Therapy of Non-alcoholic Fatty Liver Disease and Non-alcoholic Steatohepatitis. 1996-present
2. Hepatitis C: Multiple Projects Dealing with Outcomes Research in HCV, Health-Related Quality of Life, Cost-Effectiveness Analyses and Assessment of Interferon-Induced Depression. 1996-present.
3. Transplant Research: Projects Dealing with Viral Hepatitis and Non-alcoholic Fatty Liver Disease Post-Transplantation (Liver and Other Solid Organ Transplantation) and Health-Related Quality of Life. 1996-Present.
4. Health-Related Quality of Life (HRQL) Development and Validation of Disease-Specific HRQL Instrument for Chronic Liver Disease (CLDQ) and its Hepatitis C version (CLDQ-HCV). Application of These Instruments, as well as Generic Instruments (SF-36) and Utility Assessments (Health Utility Index) to a Large Cohort of Patients with Various Types of Liver Diseases. 1996-Present
5. Decision Analysis: Economic Analysis Using Decision Modeling for Various Liver- Related Issues (Noroxin for SBP, Interferon + Ribavirin for HCV, Screening for HCV, etc.) and Economic Impact of Non-Alcoholic Fatty Liver Disease. 1996-Present.
6. A Randomized, Double-Blind Controlled Trial Comparing Combination of Interferon and Ribavirin to Interferon and Amantadine for Treatment of Patients with Chronic Hepatitis C Viral Infection: Non- Responders to Previous Interferon Therapy. Coordinating PI for a Multi-Center Clinical Trial. 1997-1999.
7. A Randomized Controlled Trial Comparing Roferon Induction Therapy to Standard Therapy for Patients with HCV Viremia and Normal ALT. Coordinating PI for a Two-Center Study. 1998-2000.
8. Selective Strategy for Treatment of Patient with Hepatitis C (Interferon Naive) with Interferon and Ribavirin. Coordinating PI for a Two Center Study. 1997-1999.
9. Triple Combination Therapy (Intron A, Ribavirin, Amantadine) for Chronic Hepatitis C Non-Responder to Interferon Monotherapy and Combination Therapy. Coordinating PI of Two-Center Study. 1998-2000.
10. Clinical Trial of Pegylated Intron A, Ribavirin and Amantadine. Combination for Treatment of Chronic Hepatitis C: A Multi-Center Study. Data Management Site. 1999-2002.
11. Pegylated Interferon + Ribavirin + Amantadine for Treatment of Chronic Hepatitis C: A Multi-Centered Clinical Trial. 2000-2003.
12. Genomics (Gene Expression) of Adipose Tissue and Liver Tissue of Patients with the Spectrum of Non-Alcoholic Fatty Liver Disease and NAFLD Related Fibrosis. 2001-Present.
13. The Impact of Hepatitis C Diagnosis on Patient Health-Related Quality of Life: A Prospective Cohort Study. 2001-2002
14. Impact of Ethnicity on the Development of Hepatocellular Carcinoma (HCC).2001-2002
15. Role of Liver Biopsy in Non-Alcoholic Fatty Liver (NAFLD) Survey. 2001-2002
16. Quality of Life Outcomes in Individuals with Fulminant Hepatic Failure (FHF). 2001-2003
17. Genetic Epidemiology of Non-Alcoholic Fatty Liver Disease (NAFLD). 2001-2008.
18. Phase II Open Label Study to Evaluate the Safety and Efficacy of RU-8811 in Patients with Types 3 and 4 Non-Alcoholic Fatty Liver Disease. 2002-2004.
19. Management of Anemia and Neutropenia Associated with Pegylated Interferon+Ribavirin Treatment of Chronic HCV: Open-Label Dose Titration Study of Darbepoetin Alfa and Filgrastim. 2002-2006.
20. Predictors of Aggressive Disease and Responsiveness to Pegylated Interferon + Ribavirin in the Treatment of Chronic Hepatitis C. 2002-2010
21. Epidemiology of Non-Alcoholic Fatty Liver Disease: Multi-Center Epidemiologic Study. 2002-2008.
22. A Genomic Study of Obesity. 2003-2008



23. Genomics of Fibrosis (Liver, Lung and Heart Explants).2003-2008
24. Using NHANES database and NDI Linked Mortality File Study Insurability of HCV. 2003-2004.
25. Genomics (Gene Expression) and Proteomics of Obesity and Metabolic Syndrome. The Study of Advances in Genomic Analysis for Investigating Differences in Morbidly Obese. 2003-Present.
26. Differences in Gene Expressions in Hepatic Stellate Cells Related to Fibrosis. 2003-2009.
27. Hepatitis B and Health-Related Quality of Life. 2004-Present.
28. The Impact of Anemia on Health-Related Quality of Life. 2004-Present
29. The Impact of Steatosis in Chronic Hepatitis B. 2005-2006
30. Translational Research in Chronic Diseases. 2005-2010
31. Open-label Clinical Trial of High Dose URSO with or without Vitamin E in Severely Obese Patients with Non-alcoholic Steatohepatitis. 2005 – Present.
32. Predictors of Aggressive Disease and Responsiveness to Pegylated Interferon + Ribavirin in the Treatment of Chronic Hepatitis C: Proteomic Profiling Protocol. 2002-Present
33. Independent Predictors of Fatigue, Health-related Quality of Life and Symptoms in Patients with Chronic Liver Disease. 2006-2007
34. The Impact of Host Factors in Hepatitis C. 2006-2008
35. Neuropsychiatric Impact of Pegylated Interferon in Hepatitis C. 2006-2008
36. Thiopurine Methyltransferase & Azathioprine Metabolites in Adult Autoimmune Hepatitis. 2006-2009
37. Clinical, Laboratory and Health-related Quality of Life of Liver Disease in Hepatitis B. 2006-2009
38. The Impact of anemia on health-related quality of life of patients with hepatitis C. 2006-2009
39. Fatigue and Health-related Quality of Life (HQRL) Assessment in Blood Donors. 2006-2010
40. Study to Assess Biologic, Physiologic, Performance Measures and Self-Reports of Fatigue and Health-related Quality of Life (HRQL) in Non-alcoholic Fatty Liver Disease (NAFLD). 2006-2010
41. Survey of Hepatitis B (HBV), Hepatitis C (HCV), and Non-Alcoholic Fatty Liver Disease (NAFLD) Screening Factors Community Practices Study: A Pilot. 2006-2010
42. Assessment of Adipokines, Cytokines, and Other Proteins in Metabolic Syndrome and Non-alcoholic Fatty Liver Disease. 2006-2011
43. Is Metabolic Syndrome Associated with Progression of Underlying Liver Disease? 2006-2011
44. Nutritional Assessment in Patients with Chronic Liver Disease. 2006-2011
45. Validation of the SF-3D in Patients with Chronic Liver Disease. 2006-2011
46. Health-related Quality of Life in Patients with Non-alcoholic Fatty Liver Disease (NAFLD) 2006-2011
47. Functional Status and Quality of Life in Blood Donors. 2006-2011
48. Comparative Analysis for Levels of Adipokines and Cytokines in Non-alcoholic Fatty Liver Disease and HCV. 2006-2011.
49. Medical and Economic Impact of Patients with Non-alcoholic Fatty Liver Disease 2006-2011
50. Sleep Apnea in Patients with Non-alcoholic Fatty Liver Disease. 2006-2011
51. Survey of HBV, HCV, and Non-alcoholic Fatty Liver Disease Screening Factors. A Pilot Study. 2006-2009.
52. Phosphoproteomics of Non-alcoholic Fatty Liver Disease and Weight Loss Post Bariatric Surgery 2006-2010
53. Long Term Follow up of Patients with Non-alcoholic Fatty Liver Disease Post Bariatric Surgery 2006-2011
54. Validation of SF-6D and Health Utility Index for Patients with Chronic Liver Disease. 2006-2010
55. Assessment of Melanogenesis in Metabolic Syndrome and Obesity. 2007-Present
56. Visceral Adipose as a Source of Inflammatory Cytokines in NASH and Fibrosis. 2007-2009
57. A Retrospective Assessment of the Prevalence of Hepatitis B (HBV) and Hepatitis C (HCV) in the Asian Community of Northern Virginia. 2007-2009
58. Lipomics of the Spectrum of NAFLD. 2007-2009.

59. Socio-Demographic, Clinical, and Social Influences on Health-Related Quality of Life in Individuals with Hepatitis C. 2007-2009
60. Prevalence of Hepatitis B (HBV) and Hepatitis C (HCV) in the Asian Community of Northern Virginia. 2007-2009
61. Gene Expression Factors Associated with Steatosis, Fibrosis, Genotypes and Patients' Ethnicity in Hepatitis C. 2007-Present
62. Human Activity Profile in Patients with Chronic Liver Disease 2007-Present
63. Development of Non-invasive Biomarkers for Non-alcoholic Steatohepatitis. 2007-Present
64. Long Term Follow-Up of Non-Alcoholic Fatty Liver Disease (AFIP Data). 2008-Present
65. Association of Non-Alcoholic Fatty Liver Disease (NAFLD) and Coronary Artery Disease (CAD). 2008-Present
66. The Impact of Age and Other Demographic Factors on the Quality of Life of Patients with Chronic Liver Disease. 2008-2010.
67. Profiling of miRNA in the Adipose Tissue of the Morbidly Obese Patients with NASH and Normal Liver Biopsies. 2008-Present
68. Melanogenesis in Human Adipose Tissue as Possible Drug Target for the Secondary Complications of Obesity. 2008-Present
69. Activity and Nutritional Predictors of Response to Bariatric Surgery. 2008-2011
70. Markers of Excessive Alcohol Consumption in Morbidly Obese Patients Undergoing Bariatric Surgery. 2008-2010
71. Insulin Resistance and its Relationship to Hepatitis-C Viral Titer. 2009-Present
72. Profiling and Validation of Reference Genes for the Chronic Conditions Related to Obesity and Metabolic Syndrome. 2009-2010
73. Predictive Modeling of Metabolic Syndrome Complications Using Aggregated Data. 2009-2011
74. Obesity Related Inflammation and the Gastric Peptides of Bariatric Surgery Patients. 2009-Present
75. Gene Expression Profiling of Inflammatory Cytokine Targets and Obesity Related mRNA in Gastric Tissue Type "A", "B" and "F". 2009-Present
76. High-throughput Profiling of Microbial Trace DNA in Gastric Mucosa Samples of Morbidly Obese Patients. 2009-Present
77. RT-PCR Profiling of Brown Adipose Tissue (BAT) specific genes in visceral adipose tissue of lean and obese patients. 2009-Present
78. Stratification and Prediction of Outcomes of Bariatric Surgery Patients Using the Relative Wellness Index (RWI). 2009-Present
79. Tekscan Grip and Gait Study. 2009-Present
80. Validation of the CLDQ-HCV in the Hepatitis C-bearing Population. 2009-Present
81. Depression in Patients with Chronic Liver Disease. 2009-Present
82. The Socio-geographic Determinants of Patients with Chronic Liver Disease. 2009-Present
83. Physioflow study of patients with NAFLD and HCV. 2007-Present
84. Impact of Metabolic Syndrome on Chronic Liver Diseases Using NHANES-NDI data 2009-Present
85. Fibrogenesis and Acute Phase Associated Gene Expression in the Visceral Adipose of Morbidly Obese Patients. 2011-Present
86. The Role of Vitamin D in Non-Alcoholic Fatty Liver Disease. 2010-Present
87. Detection and Classification of Fibrosis Associated Lipid Anabolism Derangements in Patients with Non-Alcoholic Fatty Liver Disease. 2012-Present
88. Expression of Brown Adipose Tissue Specific Genes in the Visceral Adipose Tissue of Lean and Obese patients. 2012-Present
89. TH1/TH2/TH17 Cytokine and TGF- $\beta$ 1 Profiles in Serum Samples of Depressed Patients with BMI-Matched Controls. 2012-Present
90. The Role and Utility of Anti-Heat Shock Protein in Coronary Artery Disease and Non-Alcoholic Fatty Liver Disease. 2013-Present

91. Detection and Characterization of Circulating Stem cells in Coronary Artery Disease and Non-Alcoholic Fatty Liver Disease. 2013-Present
92. Human Leukocyte Antigen (HLA) Typing in Non-Alcoholic Fatty Liver Disease. 2013-Present
93. Humoral Immunity and Autoantibodies in Chronic, Obesity Associated Disease.2013-Present
94. The Role and Mechanism of Interferon Lambda 4 (IFNL4) Genotype and Downstream Expression in Viral Hepatitis and Immune Response. 2013-Present
95. Lipophagy in Hepatic Disease. 2013-Present
96. Characterization and Investigation of Matricellular Proteins in Hepatic Disease. 2013-Present
97. The Role of Mitotype in the Pathogenesis of Non-Alcoholic Steatohepatitis. 2013-Present
98. Association of Lipid Particles with Spectra of Non-Alcoholic Fatty Liver Disease.2014
99. Histologic Markers to Detect and Quantify Ballooning Degeneration By Computer Assisted Morphometry.2014
100. The Role of Estrogens and Androgens in Hepatic Fibrosis. 2014
101. Platelet Activating Factors in Coronary Artery Disease and Non-Alcoholic Fatty Liver Disease.2014.
102. Validation of Chronic Liver Disease Questionnaire (CLDQ) in Non-Alcoholic Fatty Liver Disease (NAFLD) - started 2015- Completed 2016.

### ***Non-Pharmaceutical Research Projects***

1. Development of a Disease-Specific Health-Related Quality of Life for Patients with Chronic Liver Disease. I.H. Page Center, the Clinical Effectiveness Office. 1997
2. Utility of Ultrasound by Hepatologists. American College of Gastroenterology. Clinical Research Award. 1997
3. Non-Alcoholic Steatohepatitis. American College of Gastroenterology. Clinical Research Award. 1998
4. Development and Prospective Testing of Chronic Liver Disease Questionnaire. American College of Gastroenterology. Career Development Award. 1997-1999
5. A DiBisceglio (PI). NIDDK's Multi-Center Long Term Treatment of Chronic Hepatitis C: HALT-C Trial (Consultant). NIDDK, NIH. 1998 - Present
6. Assessment of Radiological Features Associated with Non-Alcoholic Fatty Liver Disease (NAFLD). CCF Hepatology Section Grant. 2000
7. Hepatitis C and Spontaneous Infection Clearance Study (HASICS). American College of Gastroenterology Grant. 2000
8. SCLRC HEPWEB HCV Registry. Information Gathering on Patients with Hepatitis C Used to Evaluate the Characteristics, Treatment, Patterns, and Outcomes of These Patients. 2001.
9. Hepatitis B Epidemiology: National Study. Epidemiology of HBV in the US. To Determine the Prevalence of HBV Genotypes, Core Promoter and Precore HBV Variants in the US. 2001.
10. A National Registry of Patients with Hepatocellular Carcinoma. 2002-2004.
11. TRAP-C: Transplant-Related Accelerated Progression of Hepatitis C. A Collaborative Study with NIH to Study Post Transplant HCV. 2006 - 2008.
12. Using GIS and Simulation for Analyzing Optimal Geographical Boundaries and Organ Allocation System NIH/NIDDK, Naoru Koizumi, PhD (PI). 2010-present.
13. Studying the Prevalence of NAFLD, NASH and Fibrosis in Patients with Insulin Resistance and Diabetes – Internal Inova sponsorship
14. Enhancement of a Biomarker Panel for NASH and NASH-related Fibrosis with CCL2 and FASL Biomarkers – Internal Inova sponsorship
15. Vitamin D Deficiency and Non-Alcoholic Fatty Liver Disease – Internal Inova sponsorship
16. A Role of IL28b Genotype and other Confounding Factors in Hepatitis C Treatment Response - Inova Health System Grant
17. Evaluation of Clinical Reference Ranges and Limits of ALT/AST Enzymes in Patients with Liver Disease – Internal Inova sponsorship
18. A Look Back study on a Population of Hepatitis C Patients - Internal Inova sponsorship

19. Validation of the CLDQ-HCV in the Hepatitis C-bearing Population - Seed Grant
20. Vitamin D Deficiency and Non-Alcoholic Fatty Liver Disease - Executive Director Seed Grant
21. Anthropometric, Physical Activity and Cardiovascular Events in Non-Alcoholic Fatty Liver Disease Using U.S. Population Data - Internal Inova sponsorship
22. Morphometric and Molecular Analyses of the Relationship of Steatosis, Fibrosis and SVR in HCV patients - Internal Inova sponsorship
23. Agouti-related Protein (AgRP) RNA Expression in the Visceral Adipose Tissue of Non-Alcoholic Fatty Liver Disease (NAFLD) Patients - Internal Inova sponsorship
24. Intersection of the Molecular Pathology of Cardiovascular Disease (CVD) and Non-alcoholic Fatty Liver Disease (NAFLD) - Internal Inova sponsorship.
25. Study to Assess Biologic, Physiologic, Performance Measures and Self-Reports of Fatigue and Health-related Quality of Life (HRQL) in Patients with Non-alcoholic Fatty Liver Disease (NAFLD), Non-alcoholic Steatohepatitis (NASH), and Hepatitis C (HCV). 2007-Present
26. A Look Back Study on a Population of Hepatitis C Patients. 2011-Present
27. Depression in Patients with Chronic Liver Disease. 2009-2015
28. Analysis of Fatigue Metrics to Separate Peripheral from Central Fatigue in Patients with Chronic Hepatitis C Undergoing Antiviral Treatment. 2014-Present.
29. Fatigue Severity Scale (FSS) Validation in Patients with Chronic Liver Disease (CLD). 2007-2014
30. The Socio-geographic Determinants of Patients with Chronic Liver Disease. 2009-2016
31. The Impact of Multidisciplinary, Patient-Centered Lifestyle Intervention for Patients with Insulin Resistant Nonalcoholic Fatty Liver Disease. 2014-Present
32. Fatigue in Chronic Liver Disease: Qualitative Focus Group Study. 2014-Present

### ***Invited Industry-Sponsored Clinical Trials***

1. A Phase 3 Study to Compare the Safety and Efficacy of Alferon N Injection to Intron A in Previously Untreated Patients with Chronic Hepatitis C Interferon. 1996-1998.
2. A Study of Extended Lamivudine Treatment of Hepatitis B Patients Previously Enrolled in Phase II or Phase III Lamivudine Trials (NUCA3017). 1996-2002
3. Hepatitis Resource Network (HRN). 1998-2000
4. A Study to Determine Whether Production of Mx Protein by Hepatitis C Patients Predicts Response to Therapy. 1998-2001.
5. IL-12 for Treatment of Chronic Hepatitis C, (Non-responder) Genetic Institute. 1999-2000.
6. Hepatitis Resource Network (HRN). 1999-2002
7. A Randomized, Open Label, Multi-center, Efficacy and Safety Study of Pegylated Roferon Plus Ribavirin and Other Combinations for Chronic Hepatitis C, Previously Non-Responder to Rebetron. 1999-2001.
8. A Protocol to Develop A Registry and Evaluate the Characteristics, Treatment, Patterns, and Outcomes of Patients with Hepatitis C at 10 U.S. Sites. 2000-2001
9. Protocol Number GS-98-435: An Open Label Study of the Safety and Efficacy of Adefovir Dipivoxil for the Treatment of Liver Disease Due to Lamivudine Resistant Hepatitis B (HBV) in Liver Transplant Patients. 2000-2002
10. PEG-Interferon a-2b + Ribavirin for Treatment of Patients with Chronic Hepatitis C who Have Previously Failed to Achieve a Sustained Virologic Response Following Interferon alfa or Interferon a-2b + Ribavirin Therapy. 2000-2003.
11. Evaluate the Safety and Efficacy of PEG-Interferon A-2b + Ribavirin for the Treatment of Patients with Chronic Hepatitis C who Have Previously Failed to Achieve a Sustained Virologic Response Following Interferon Alfa or Interferon A-2b + Ribavirin Therapy. 2001-2003.
12. Evaluate the Safety and Efficacy of Extended Lamivudine Treatment for Hepatitis B Patients Previously Enrolled in Phase II or Phase III Lamivudine Trials. 2001-2005.
13. Saliva vs. Serum Testing Of Hepatitis C. A Comparison of A Rapid One-Step Immunoassay Applied to the Detection of Hepatitis C Virus Antibodies with a Standard Method of the Detection

- of Hepatitis C Virus Antibodies in the Salvia and Serum of the Same Patient Population. 2001-2002.
14. Hepatitis B Immunoglobulin and Lamivudine for Treatment of Hepatitis B. 2001-2003.
  15. Evaluate the Safety and Efficacy of Adefovir Dipivoxil for the Treatment of Liver Disease Due to Lamivudine Resistant Hepatitis B in Pre and Post-Liver Transplant Patients. 2001-2003.
  16. Evaluate the Safety and Efficacy of Pegasys Versus Pegasys + Ribavirin Versus a Twelve-Week Treatment Delay in Patients with Chronic Hepatitis C. 2001-2003.
  17. A Prospective Randomized, Multicenter, Open-Label, Comparative Safety Study of Pegasys( vs Pegasys( Plus Ribavirin Treatment vs a 12-Week Treatment Delay in Patients with Chronic Hepatitis C. 2001-2002
  18. An Open-Label, Phase I/II Study of the Effect of Ethnicity on the Pharmacokinetics, Safety, and Antiviral Activity of Adefovir Dipivoxil 10mg/day in Nucleo-side Treatment Naïve HBV Infected Patients. 2001-2002
  19. A Double-Blind, Placebo-Controlled Evaluation of Emtricitabine Once-Daily for the Treatment of Chronic Hepatitis B Virus Infection (Protocol No. FTCB-301). 2001-2002
  20. An Open-Label Phase 1-2 Study of the Pharmacokinetics, Safety, and Antiviral Activity of Adefovir Dipivoxil in Nucleoside Treatment-Naïve HBV-Infected Patients. 2001-2002.
  21. A Phase II, Double-Blind, Randomized, Placebo-Controlled, Parallel Group Study of the Safety and Anti-Viral Effects of a Mixture of Two Monoclonal Antibodies (HBV-Ab) in Combination with Lamivudine in the Treatment of Patients with Chronic Hepatitis B Virus Infection. 2001-2002
  22. A Randomized, Double-Blind, Placebo-Controlled Study to Compare the Effect of Procrit(r) (Epoetin alfa) once a Week Versus Placebo in the Treatment of Anemia and Maintenance of Optimal Ribavirin Dose in Hepatitis C Virus Infected Patients Treated with Combination Ribavirin/Interferon or Ribavirin/Pegylated Interferon. 2001-2004
  23. Phase II/III Randomized, Placebo-Controlled Study of Safety and Anti-Fibrotic Efficacy of Interferon Gamma-1B In Patients with Severe Fibrosis or Compensated Cirrhosis Due to Hepatitis C. 2002.
  24. A Pilot Phase II, Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Dose Escalation Study of the Safety and Efficacy of A Human HCV-Antibody (HCV-Ab<sup>xll</sup> 68) for Prevention of Hepatitis C Disease Recurrence in Patients who Have Received Hepatic Allografts for Treatment of End-Stage Liver Disease Due to Hepatitis C Virus Infection. 2002.
  25. A Phase II Open Label Study to Evaluate the Safety and efficacy of RU-8811, in Patients with Types 3 or 4 Non-alcoholic Fatty Liver Disease. 2002-2003
  26. A Multicenter Double-Blinded Study in Patients with Compensated Cirrhosis Due to Chronic Hepatitis C who are Non-Responders to Piror Interferon Alfa or Intereron Alfa+Ribavirin Therapy, comparing Treatment with Thymosin Alpha 1+ Peginterferon Alfa-2a with Peginterferon Alfa-2a + Placebo. 2002-2003
  27. Peg-intron as Maintenance Therapy vs. an Untreated Control Group in Adult Subjects with Compensated Cirrhosis (Metavir F4), Secondary to Chronic Hepatitis C, Who Have Failed to Respond to Therapy With Any Interferon Plus Ribavirin. 2002-2003
  28. A Phase 3b, Open Label Program of Adefovir Dipivoxil in the Treatment of Patients with Lamivudine-Resistant Chronic Hepatitis B Who Have Limited Treatment Options. 2002-2003
  29. Peg-Intron Maintenance Therapy vs. an Untreated Control Group for Prevention of Progression of Fibrosis in Adults Subjects With Chronic Hepatitis C with Hepatic Fibrosis (Metavir Firbrosis Score of F2 or F3), Who Failed Therapy with Peg-Introl Plus Rebetrol. 2002-2003
  30. A National Registry of Patients with Hepatocellular Carinoma-Epidemiology of Heptaocellular Carinoma Local Study dated April 15, 2002. 2002-2004
  31. PEG-Intron Plus REBETOL for the Treatment of Subjects with Chronic Hepatitis C Who Failed to Respond to Previous Combination Therapy (Any Interferon Treatment in Combination with Ribavirin). 2002-2004

32. A Multicenter, Randomized, Double-Blind, Placebo-Controlled Parallel Study to Determine the Efficacy and Safety of Pravastatin 80 mg Administered Once Daily to Hypercholesterolemic Subjects with Chronic, well Compensated Liver Disease, October 7, 2002. 2003-2004
33. Randomized, Multicenter, Open Label, Phase IV Study Evaluating the Efficacy and Safety of 16-Week Versus 24-Week Treatment with PEGASYS® in Combination with Copegus® in Interferon-naïve Patients with Chronic Hepatitis C Genotype 2 or 3 Virus Infection NV17317B. 2003-2004
34. A Phase II, Multicenter, Open-Label, Follow-On Study of the Safety and Efficacy of a Human HCV Antibody (HCV-Abxt168) for Prevention of Hepatitis C Disease Recurrence in Patients Who Have Received Hepatic Allografts for Treatment of End-Stage Liver Disease Due to Hepatitis C Virus Infection and Who Have Demonstrated an Anti-Viral Response in Protocol XTL #2002-09. 2003-2004
35. Safety And Efficacy Of 16 Weeks Versus 24 Weeks Of Pegylated Interferon Alpha 2a And Ribavirin For Treatment Of Chronic Hepatitis C, Genotypes 2 and 3. 2004.
36. Randomized, Double-Blind Multicenter Study to Compare the Safety and Efficacy of Virmidine to Ribavirin in Treatment-Naïve Patients with Chronic Hepatitis C RNA003142-302. 2004-2005
37. A Phase 2 Study of VX-950 in Combination with Peginterferon Alfa-2a with Ribavirin in Subjects with Genotype 1 Hepatitis C who Have Not Received Prior Treatment. 2006.
38. A Randomized, Double-Blind, Controlled Evaluation of Tenofovir DF versus Adefovir Dipivoxil for the treatment of HBeAg Positive Chronic Hepatitis B. 2006-2007
39. A Partially Blinded, Randomized, Parallel Group Study to Evaluate the Potential Pharmacokinetic and Pharmacodynamic Interactions between Valopicitabine and Ribavirin when Administered in Combination with Pegylated Interferon Alfa-2a in Treatment of Naïve Patients with Chronic Hepatitis C. 2006-2008
40. An extension protocol to evaluate the long-term effects of treatment with peginterferon alfa-2a (PEG-IFN) or interferon (IFN) based therapies for patients with chronic hepatitis C. 2006-2009
41. A Randomized, Double-Blind, Controlled Evaluation of Tenofovir DF Versus Adefovir Dipivoxil for Treatment of Presumed Pre-core Mutant Chronic Hepatitis B. 2006-2009
42. A Phase 2 Double-Blind Multicenter Randomized Study Comparing Tenofovir Disoproxil Fumarate Emtricitabine Plus Tenofovir Disoproxil Fumarate and Entecavir in the Treatment of Chronic Hepatitis B Subjects with Decompensated Liver Disease and in the Prevention of Hepatitis B Recurrence Post-transplant. 2006-2009
43. A Phase 2 Study of VX-950 in Combination with Peginterferon Alfa-2a (Pegasyl) with or without Ribavirin (Copegus) in Subjects with Hepatitis C. 2006-2009
44. Randomized, Multicenter, Double-Blinded, Phase IV Study Evaluating The Efficacy (As Measured By Sustained Virological Response) And Safety Of 360 µg Induction Dosing Of Pegasys® In Combination With Higher Copegus® Doses In Treatment-Naïve Patients With Chronic Hepatitis C Genotype 1 Virus Infection Of High Viral Titer And Baseline Body Weight Greater Than Or Equal To 85 Kg. 2007.
45. A Prospective, randomized, trial to investigate the effect of continued Adefovir versus combination regimens of Telbivudine plus Adefovir, and Telbivudine plus Tenofovir in patient with chronic hepatitis B and suboptimal viral suppression. 2007-2008
46. A Phase IB, Multicenter, Randomized, Double-Blinded and Placebo-Controlled Study of the Antiviral Activity, Safety, Tolerability, and Pharmacokinetics of Multiple Ascending Doses of VCH-916 in Treatment Naïve Subjects with Chronic Hepatitis C Infection. 2007-2009
47. Randomized, Multicenter, Double-Blinded, Phase IV study evaluating the efficacy and safety of induction dosing of Pegasys in combination with higher copegus doses in treatment naïve pts with chronic hepatitis. 2007-2009
48. A phase 3, randomized, multi-center study to evaluate the efficacy and safety of albumin interferon alfa-2b (alb-IFN) in combination with ribavirin compared with peginterferon alfa-2a (PEGASYS or

- PEG-IFNa2a) in combination with ribavirin in interferon alfa naïve subjects with chronic hepatitis C. 2007-2009
49. A phase 2 study of Telaprevir (VX-950) in combination with Peginterferon Alfa-2a (Pegasys) and Ribavirin (Copegus) in subjects with genotype 1 Hepatitis C who have not achieved sustained viral response with a prior course of Interferon-based therapy. 2007-2009
  50. A Rollover protocol of Telaprevir (VX-950) in combination with Peginterferon Alfa-2a (Pegasys), and Ribavirin (Copegus) in subjects enrolled in the control group (Group A) of study VX06-950-106 who did not achieve or maintain an undetectable HCV RNA level through sustained viral response. 2007-2010
  51. An Open-Label, 3-Panel, Dose-Escalation Study to Assess the Safety and Tolerability, Pharmacokinetics, and Viral Kinetics of Two Doses of Locteron (PolyActive-Interferon Alpha 2b) given every 2 weeks for 4-12 weeks in comparison with PEG-Intron given week weekly for 4-12 weeks in patients with chronic hepatitis C. 2008-2009
  52. Pivotal Study to Evaluate the Efficacy and Safety of the BreathID® System for Detection of Cirrhosis Using the 13C-Methacetin Breath Test (MBT). 2008-2009
  53. A Phase 2, Randomized, Double-Blind, Parallel-Group, Placebo-Controlled Study to Investigate the Safety, Tolerability, Pharmacokinetics and Activity of GS-9450 in Adults with Non-Alcoholic Steatohepatitis (NASH). 2008-2009
  54. Identification of Genetic Signatures Associated With Response Of HCV-Positive Patients To Treatment with Interferon-Alpha and Ribavirin. 2008-2009
  55. A Phase 3, Safety and Efficacy Study of Boceprevir in Previously Untreated Subjects with Chronic Hepatitis C Genotype 1. 2008-2009
  56. A Placebo-Controlled, Multicenter, Double-Blind, Randomized Trial of Pegylated Interferon Plus Ribavirin ith or Without CTS-1027 in HCV Null-Responders - Conatus Pharmaceuticals Inc.
  57. A randomized, open-label, Phase 3 study of telaprevir administered twice daily or every 8 hours in combination with pegylated interferon alfa-2a and ribavirin in treatment-naïve subjects with genotype 1 chronic hepatitis C virus infection - Janssen Research 2008
  58. A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Trial Comparing 24 or 48 Weeks of GS-9190, in Combination with Peginterferon Alfa 2a and Ribavirin, to 48 Weeks of Peginterferon Alfa 2a and Ribavirin for the Treatment of Genotype-1 Chronic Hepatitis C Virus (HCV) Infection. 2008-2009
  59. A Randomized Study of Stopping Treatment at 24 Weeks or Continuing Treatment to 48 Weeks in Treatment-Naïve Subjects with Genotype 1 Chronic Hepatitis C who Achieve an Extended Rapid Viral Response while Receiving Telaprevir, Peginterferon Alfa-2a and Ribavirin. 2008-2009
  60. An Open-Label, 3-Panel, Dose-Escalation Study To Assess The Safety And Tolerability, Pharmacokinetics, And Viral Kinetics of Two Doses Of Locteron™ (Polyactive™-Interferon Alpha 2b) Given Every 2 Weeks for 4-12 Weeks in Comparison With PEG-Intron Given Weekly for 4-12 Weeks in Patients With Chronic Hepatitis C. 2008-2009
  61. A Randomized, Double-Blind, Placebo-Controlled, Phase III Trial of 2 Regimens of Telaprevir (With And Without Delayed Start) Combined With Pegylated Interferon Alfa-2a (Pegasys®) And Ribavirin (Copegus®) in subjects with chronic genotype 1 hepatitis C in Subjects with Chronic Genotype 1 Hepatitis C Infection who failed prior pegylated interferon plus ribavirin treatment. 2008-2010
  62. A multi-center research study of genetic signatures associated with response of HCV-positive patients to treatment with interferon-alpha and ribavirin. 2008-2010
  63. A Phase 3 Study of 2 Dose Regimens of Telaprevir in Combination with Peginterferon Alfa-2a (Pegasys®) and Ribavirin (Copegus®) in Treatment-Naïve Subjects with Genotype I Chronic Hepatitis C. 2008-2010
  64. Phase 2B, Partially Blinded, Randomized Study in Treatment Naïve Subjects with HCV Genotype 1 to Compare the Efficacy, Safety, and Tolerability of Three Doses of Locteron Plus Ribavirin Given Bi-weekly In Comparison With PEG-Intron Plus Ribavirin given Weekly. 2009-2010

65. A Phase 2b, Double-Blind, Randomized, Parallel-Group, Placebo-Controlled Study to Evaluate the Safety, Tolerability, and Efficacy of GS-9450 in Adults with Chronic Hepatitis C Virus. 2009-2010
66. A 3-Year, Virology Follow up Study in Subjects Previously Treated with Telaprevir in Select Clinical Studies. 2009-2010
67. A Phase 2, Randomized, Double-Blind, Placebo-Controlled Study to Evaluation the Safety and Efficacy of Filibuvir Plus Pegylated Interferon Alpha-2A and Ribavirin in Treatment Naïve, HCV Genotype 1 Infected Subjects. 2009
68. Development of a Hepatitis C Patient Assessment Questionnaire (HEPA) for Hepatitis C Virus (HCV) infected patients with Antiviral Treatment. 2009.
69. A Phase 2, Randomized, Double-Blind, Placebo-Controlled, Ascending Multiple Dose Trial of the Safety, Efficacy, and Pharmacokinetics of ANA598 Administered with Pegylated Interferon and Ribavirin in Treatment-Naïve Genotype 1 Patients with Chronic Hepatitis C Infection. 2009-Present
70. Protocol GS-US-196-0123, "A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Trial Evaluating 12 and 24 Weeks of Response Guided Therapy With GS-9190, GS-9256, Ribavirin (Copegus<sup>®</sup>) and Peginterferon Alfa 2a (Pegasys<sup>®</sup>) in Treatment Naïve Subjects with Chronic Genotype 1 Hepatitis C Virus Infection, Gilead Sciences 2010-Present.
71. A phase IIa, randomized, double-blind (subject and investigator blind, sponsor open) placebo-controlled trial to evaluate the safety, tolerability and antiviral activity of oral ACH-0141625 in combination with pegylated interferon alfa-2a and ribavirin in two segments, after 28 days of dosing and, subsequently, after 12 weeks of dosing in subjects with chronic hepatitis C virus genotype 1. Achillion 2010-2011
72. Phase III triple combination of pegylate Interferon, Ribavirin, Telaprevir for HCV genotype 1 Patients. Tibotec, 2010-Present
73. A Phase III, Randomized, Double-Blind, Placebo-Controlled, Study to investigate the Efficacy, Safety and Tolerability of TMC435 versus placebo as part of a treatment regimen including peginterferon  $\alpha$ -2a (Pegasys<sup>®</sup>) in treatment-naïve, genotype 1, hepatitis C- infected subjects - Tibotec BVBA 2011-2013
74. Collection of Blood Specimens from HCV Antibody Positive Subjects COL-HCV-200 - Duke Clinical Research Institute. 2010-2011
75. A Phase 2 Randomized, Open-Label Study of GS-5885 Administered Concomitantly with GS-9451, Tegobuvir and Ribavirin (RBV) to Treatment-Naïve Subjects with Chronic Genotype 1 HCV Infection - Gilead Sciences, Inc. 2011-Present
76. A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Trial Evaluating Response Guided Therapy using Combinations of Oral Antivirals (GS-5885, tegobuvir, and/or GS-9451) with Peginterferon Alfa 2a and Ribavirin in Treatment Experienced Subjects with Chronic Genotype 1 Hepatitis C Virus Infection - Gilead Sciences, Inc 2012-2013
77. A Phase II, Randomized, Double-blind, Multi-center, Placebo-controlled Study of the Safety and Efficacy of INX-08189 in Adjunctive Treatment with Peginterferon alfa-2a (Pegasys) and Ribavirin (Copegus) in Chronically-infected HCV Genotype 2 and 3 Treatment naïve Subjects – Inhibitex 2012-2013
78. A Phase 2 Randomized, Double-Blind, Placebo-Controlled Study of GS-5885, GS-9451, Tegobuvir and Ribavirin; GS-5885, GS-9451 and Tegobuvir; GS-5885, GS-9451 and Ribavirin in Interferon Ineligible or Intolerant Subjects With Chronic Genotype 1a or 1b HCV Infection (Protocol No.) - Gilead Sciences, Inc 2011-2013
79. An exploratory Phase IIa, randomized, open-label trial to investigate the efficacy and safety of 12 weeks or 24 weeks of TMC435 in combination with PSI-7977 with or without ribavirin in chronic hepatitis C genotype 1-infected prior null responders to peginterferon/ribavirin therapy - Tibotec BVBA 2012-2013
80. A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Investigate the Efficacy and Safety of GS 7977 + Ribavirin for 12 Weeks in Subjects with Chronic Genotype 2 or 3



- HCV Infection who are Interferon Intolerant, Ineligible or Unwilling to Take Interferon – Gilead Sciences, Inc 2012-2013
81. Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Investigate the Efficacy and Safety of GS-7977 + Ribavirin for 12 Weeks in Treatment Experienced Subjects with Chronic Genotype 2 or 3 HCV Infection – Gilead Sciences, Inc 2012-2013
  82. A Phase III, randomized, double-blind trial to evaluate the efficacy, safety and tolerability of TMC435 vs. telaprevir, both in combination with PegIFN $\alpha$ -2a and ribavirin, in chronic hepatitis C genotype-1 infected subjects who were null or partial responders to prior PegIFN $\alpha$  and ribavirin therapy – Janssen Pharmaceuticals.2012-2013
  83. An Open-Label Study of GS-7977 + Ribavirin with or without Peginterferon Alfa-2a in Subjects with Chronic HCV Infection who Participated in Prior Gilead HCV Studies – Gilead Sciences, Inc 2012-2013
  84. A Phase 3, Multicenter, Open-Label Study to Investigate the Efficacy and Safety of GS-7977 with Peginterferon Alfa 2a and Ribavirin for 12 Weeks in Treatment-Naïve Subjects with Chronic Genotype 1, 4, 5, or 6 HCV Infection – Gilead Sciences, Inc 2012-2013
  85. Open-Label, Multiple-Dose, Dose Escalation Study to Evaluate the Pharmacodynamics, Pharmacokinetics, and Safety of Coadministration of BMS-650032, BMS-790052, and BMS-791325 when administered for 24 or 12 weeks in Treatment-Naïve Subjects Infected with Hepatitis C Virus Genotype 1 – Bristol Myers Squibb (BMS) 2012-Present
  86. A Long Term Follow-up Registry for Subjects Who Achieve a Sustained Virologic Response to Treatment in Gilead-Sponsored Trials in Subjects with Chronic Hepatitis C Infection – Gilead Sciences, Inc 2012-Present
  87. A Long Term Follow-up Registry Study of Subjects Who Did Not Achieve Sustained Virologic Response in Gilead-Sponsored Trials in Subjects with Chronic Hepatitis C Infection – Gilead Sciences, Inc 2012-Present
  88. A Phase 2b, Dose-Ranging, Randomized, Double-Blind, Placebo-Controlled Trial Evaluating the Safety and Efficacy of GS-6624, a Monoclonal Antibody Against Lysyl Oxidase-Like 2 (LOXL2), in Subjects with Advanced Liver Fibrosis but not Cirrhosis Secondary to Non-Alcoholic Steatohepatitis (NASH) – Gilead Sciences, Inc 2013.
  89. A Phase 3, Multicenter, Randomized, Open-Label Study to Investigate the Efficacy and Safety of Sofosbuvir/GS-5885 Fixed-Dose Combination  $\pm$  Ribavirin for 12 and 24 Weeks in Treatment-Naïve Subjects with Chronic Genotype 1 HCV Infection – Gilead Sciences, Inc 2013-2014
  90. A Phase 3, Multicenter, Randomized, Open-Label Study to Investigate the Efficacy and Safety of Sofosbuvir/GS-5885 Fixed-Dose Combination  $\pm$  Ribavirin for 12 and 24 Weeks in Treatment-Experienced Subjects with Chronic Genotype 1 HCV Infection – Gilead Sciences, Inc 2013-2014
  91. A Phase 3, Multicenter, Randomized, Open-Label Study to Investigate the Efficacy and Safety of Sofosbuvir/Ledipasvir Fixed-Dose Combination  $\pm$  Ribavirin for 8 Weeks and Sofosbuvir/Ledipasvir Fixed-Dose Combination for 12 Weeks in Treatment-Naïve Subjects with Chronic Genotype 1 HCV Infection – Gilead Sciences, Inc 2013-2014
  92. A Phase 2, Multicenter, Randomized, Open-Label Study to Investigate the Safety and Efficacy of Sofosbuvir + GS-5816 for 12 Weeks in Treatment Experienced Subjects with Chronic HCV Infection – Gilead Sciences, Inc 2013-2014
  93. A Randomized, Double-blind, Controlled Study to Evaluate the Efficacy and Safety of the Combination of ABT-450/Ritonavir/ ABT-267 (ABT-450/r/ABT-267) and ABT-333 With and Without Ribavirin (RBV) in Treatment-Naïve Adults with Genotype 1a Chronic Hepatitis C Virus (HCV) Infection (PEARL-IV) – Abbvie 2013-Present
  94. Characterization of Intestinal Microbiota in Outpatients with Histologically Confirmed NonAlcoholic Fatty Liver: NashVile 2 – Enterome 2013-2014.
  95. A Phase 3 Evaluation of a daclatasvir/asunaprevir/BMS-791325 Fixed Dose Combination in Subjects with Genotype 1 Chronic Hepatitis C and Compensated Cirrhosis 1 – Bristol Myers Squibb (BMS) 2014-2016

96. A Phase 3 Evaluation of a daclatasvir/asunaprevir/BMS-791325 Fixed Dose Combination in Non-cirrhotic Subjects with Genotype 1 Chronic Hepatitis C 1 – Bristol Myers Squibb (BMS) 2014-2016
97. A Phase 3 Evaluation of Daclatasvir and Sofosbuvir in Treatment Naïve and Treatment Experienced Subjects with Genotype 3 Chronic Hepatitis C Infection 1 – Bristol Myers Squibb (BMS) 2014-2016
98. A Phase 3, Multicenter, Randomized, Open-Label Study to Investigate the Efficacy and Safety of a 12- or 8-Week Treatment Regimen of Simeprevir in Combination with Sofosbuvir in Treatment-Naïve and -Experienced Subjects with Chronic Genotype 1 Hepatitis C Virus Infection Without Cirrhosis – Janssen Pharmaceuticals.2014-2016
99. A Phase III Open-Label Clinical Trial to Study the Efficacy and Safety of the Combination Regimen of MK-5172/MK-8742 in Treatment-Naïve Subjects with Chronic HCV GT1, GT4, GT5, and GT6 Infection who are on Opiate Substitution Therapy – Merck 2014-2016
100. A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Safety and Efficacy of Selonsertib in Subjects With Nonalcoholic Steatohepatitis (NASH) and Bridging (F3) Fibrosis- Gilead Sciences-Global PI. 2017-Present

### **RESEARCH AND PHILANTHROPIC FUNDS:**

1. Total Research funding to Inova (January 2001-April 2010): \$3,165,383.
2. Foundation Fund Established by Younossi (Liver Outcomes Research Fund, as of March 2010): \$168,262.
3. Philanthropic Gift to Build “Betty and Guy Beatty Center for Integrated Research”, \$2 million
4. Philanthropic Pledge for “Beatty-Younossi Liver and Obesity Research Fund”: \$5,000,000.00 over 10 years
5. Testamentary Charitable Lead Trust Commitment of \$5 million to Beatty-Younossi Fund 2012
6. Gilead Liver Research Fund 1.2 Million.

### **PATENTS:**

1. **U.S. Patent Application No. 12/155,562**  
**Title:** “Prognostic Chronic Hepatitis C Biomarkers”  
**Inventor:** **Zobair M. Younossi**
2. **U.S. Patent Application No. 61/265,449**  
**Title:** Protein Pathway Biomarker Signature Associated with Superimposed Non-Alcoholic Steatohepatitis (NASH) and Advanced Fibrosis in Patients with Chronic Hepatitis C”  
**Inventors:** **Zobair Younossi**, Dolores Limongi, Mariaelena Pierobon and Emanuel Petricoin.
3. **U.S. Patent Application No. 61/265,446**  
**Title:** “Protein Pathway Biomarkers Predicting Sustained Virologic Response (SVR) to Pegylated Interferon (PEG-IFN) and Ribavirin (RBV) in Patients with Chronic Hepatitis C (CH-C)”  
**Inventors:** **Zobair Younossi**, Dolores Limongi, Mariaelena Pierobon and Emanuel Petricoin.
4. **U.S. Patent Application No. 60/939,208**  
**Title:** “Utility of Signal Pathway and Drug Target Analysis from Fat Tissue for Metabolic Syndrome and Weight Loss Prognosis”  
**Inventors:** **Zobair Younossi**; Lance Liotta; Emmanuel Petricoin; Valerie Calvert.
5. **U.S. Patent Application No. 60/916,533**  
**Title:** “Liver Disease Diagnostic Using AKT/mTOR Pathway Activation State in Fat Cells  
**Inventors:** **Zobair Younossi**, Lance Liotta, and Emmanuel Petricoin
6. **U.S. Patent Application No. 12/139,173**  
**Title:** A Combination of Non-Invasive Assays for Apoptosis, Necrosis and Adipocytokines as Diagnostic Predictor of Nonalcoholic Steatohepatitis (NASH)  
**Inventors:** **Zobair Younossi**, Anna Baranova, Mohammed Jarrar, Vikas Chandhoke

## PUBLICATIONS

### **Books**

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2. Z Younossi. Practical Management of Liver Diseases. (Textbook Editor), Cambridge Press, 1<sup>st</sup> edition, 2008.
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203. A Baranova, M Jarrar, M Abawi, L Wang, A Afendy M Stepanova, M Estep, A Moazzez, Z Goodman, V Chandhoke, ZM Younossi. Soluble Molecules Released from Visceral Adipose Tissue May Contribute To the Development of Advanced Non-Alcoholic Fatty Liver. Digestive Disease Week 2011, Chicago, IL
204. L Gerber, S Page, JK Price, A Baranova, P Winter, ZM Younossi. Association of Soluble Serum Molecules and Fatigue in Patients with Chronic Liver Disease. Digestive Disease Week 2011, Chicago, IL
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  208. M Stepanova, N Rafiq, H Makhoul, Z Younoszai, I Kaur, R Agrawal, Z Goodman, Z Younossi. Features of Non-Alcoholic Steatohepatitis as Independent Predictors Of Liver-Related Mortality. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany, Oral Presentation
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  211. M Estep, H Sharma, G Vernon, D Armistead, N Hossain, H Elariny, Z Goodman, V Chandhoke, A Baranova, Z Younossi. Expression level of IL20, MTOR, IL13RA1, and SEMA4C are increased in the visceral adipose tissue of patients with non-alcoholic steatohepatitis while there is a decrease in the expression levels of their regulatory miRNAs. Digestive Disease Week 2011, Chicago, IL
  212. H Sharma, M Estep, D Armistead, G Vernon, N Hossain, A Moazzez, Z Goodman, V Chandhoke, A Baranova, ZM Younossi. Expression level for miRNA processing enzymes DICER1, RNASEN, and DGCR8 are increased in the visceral adipose tissue of non-alcoholic steatohepatitis (NASH) patients. Digestive Disease Week 2011, Chicago, IL
  213. R Mehta, A Birerdinc, L Wang, A Afendy, M Stepanova, H Elariny, Z Goodman, V Chandhoke, A Baranova, ZM Younossi. Gastric Gene Expression of Inflammatory Cytokines in Non-alcoholic Fatty Liver Disease (NAFLD) and Non-Alcoholic Steatohepatitis (NASH). Digestive Disease Week 2011, Chicago, IL
  214. C Nguyenngo, A Baranova, ZM Younossi, M Estep. Components of the Metabolic Syndrome and their Relation to NAFLD in Morbidly Obese George Mason University, Undergraduate Research Day 2011.
  215. J Kallman, L Pawloski, T Leslie, N Hossain, ME Earley, Y Fang, ZM Younossi. Poor Dietary Choices and Nutrition Sources are Associated with Non-alcoholic Fatty Liver Disease (NAFLD). George Mason University, College of Health & Human Services 2nd Annual Research Day 2011.
  216. J Moon, J Kallman, Z Younoszai, P Winter, Y Fang, L Gerber, ZM Younossi. Validation of Chronic Liver Disease-HCV Version (CLDQ-HCV) with Fatigue Severity Scale. George Mason University, College of Health & Human Services 2nd Annual Research Day 2011.
  217. J Kallman, P Winter, J Moon, ME Earley, L Gerber, ZM Younossi. Determination of Relationships Between Objective and Self-Reports of Fatigue and Physical Performance in Subjects with Chronic Liver Disease. George Mason University, College of Health & Human Services 2nd Annual Research Day 2011.
  218. A Baranova, M Jarrar, A Moazez, H Elariny, M Abawi, L Wang, A Afendy, M Stepanova, M Estep, Z M Younossi. Melanocortins and Interleukins Contributing to Advanced Non-alcoholic Fatty Liver Disease (NAFLD) and Non-alcoholic Steatohepatitis (NASH) in Patients with BMI  $\geq$  40. Obesity 2011, Orlando, FL.
  219. M Estep, H Elariny, A Moazez, M Abawi, L Wang, M Stepanova, A Baranova, ZM Younossi. Serum Obestatin, Ghrelin and Inflammatory Cytokines in Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). Obesity 2011, Orlando, FL.

220. A Birerdinc, R Mehta, A Moazez, H Elariny, M Stepanova, A Baranova, ZM Younossi. Expression of Genes Associated with Non-alcoholic Fatty Liver Disease (NAFLD) and Non-alcoholic Steatohepatitis (NASH) in the Gastric Tissue of Patients Undergoing Bariatric Surgery. Obesity 2011, Orlando, FL.
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222. S Page, M Estep, A Afendy, A Birerdinc, E Petricoin, A Baranova, ZM Younossi. CCL-2 and Soluble Fas Ligand as Markers of Hepatic Fibrosis in Patients with Non-alcoholic Fatty Liver Disease (NAFLD). American College of Gastroenterology Annual Meeting 2011, Washington DC
223. A Baranova, M Abawi, A Afendy, R Mehta, M Stepanova, Z Goodman, V Chandhoke, A Birerdinc, ZM Younossi. Vitamin D level in Non-Alcoholic Fatty Liver Disease (NAFLD) patients remains deficient despite multivitamin supplementation. American College of Gastroenterology Annual Meeting 2011, Washington DC
224. Y Fang, N Rafiq, M Afendy, Y Younossi, B Lam, Z Goodman, Z M Younossi Independent Predictors of Non-alcoholic Steatohepatitis (NASH) and Advanced Fibrosis in a Large Cohort of Patients with Non-alcoholic Fatty Liver Disease (NAFLD). American College of Gastroenterology Annual Meeting 2011, Washington DC
225. M Abawi, A Birerdinc, A Baranova, A Afendy, S Page, M Stepanova, Z Goodman, Z M Younossi. Vitamin D levels Non-Alcoholic Fatty Liver Disease (NAFLD) patients correlate with apoptosis and serum levels of M30. American College of Gastroenterology Annual Meeting 2011, Washington DC
226. M Stepanova, HM Mir, S Hallaji, Y Younossi, M Srishord, Z M Younossi. Prevalence and Independent Predictors of Non-alcoholic Steatohepatitis (NASH) in the U.S. Population. American College of Gastroenterology Annual Meeting 2011, Washington DC
227. M Stepanova, A Birerdinc, L Pawloski, M Srishord, ZM. Younossi. Caffeine Intake Is Protective Against Non-alcoholic Fatty Liver Disease: Analysis of Population-based Data from the United States. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA
228. J Kallman, T Leslie, L Pawloski, M Soni, M Awad, C Escheik, Z M Younossi. The Impact of Sociogeographic, Nutritional and Activity Factors on Patients with Chronic Liver Disease. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA
229. ZM Younossi, M Stepanova, A Afendy, G Vernon, F Nader. Components of Metabolic Syndrome and Rising Prevalence of Non-alcoholic Fatty Liver Disease (NAFLD) and Non-alcoholic Steatohepatitis (NASH) in the United States. Digestive Disease Week 2011, Chicago, IL.
230. ZM Younossi, M Stepanova, B Lam, Y Younossi, M Srishord. The Association of Hepatitis C and Type II Diabetes in U.S. General Population: The Impact of Epidemic of Obesity. Digestive Disease Week 2011, Chicago, IL.
231. ZM Younossi, R Mehta, A Birerdinc, L Wang, A Afendy, M Stepanova, H Elariny, Z Goodman, V Chandhoke, A Baranova. Gastric Gene Expression of Inflammatory Cytokines in Non-alcoholic Fatty Liver Disease (NAFLD) and Non-alcoholic Steatohepatitis Hepatitis (NASH). Digestive Disease Week 2011, Chicago, IL.
232. ZM Younossi, A Baranova, M Jarrar, M Abawi, L Wang, A Afendy, M Stepanova, M Estep, A Moazzez, Z Goodman, V Chandhoke. Soluble Molecules Released from Visceral Adipose Tissue may Contribute to the Development of Advanced Non-alcoholic Fatty Liver Disease. Digestive Disease Week 2011, Chicago, IL.
233. Z Younossi, A Sanyal, R Brown, R Vemuru, M Jamal, S Huang, K Merchant, E Bortey, W Forbes, The Effect of Rifaximin on the Health Related Quality of Life (HRQL) in Patients with Cirrhosis and Recurrent Hepatic Encephalopathy. Digestive Disease Week 2011, Chicago, IL. Poster with Distinction
234. J Kallman, J Moon, P Winter, F Nader, Y Fang, L Gerber, Z Younossi. Hemoglobin Level is Associated with the Physical Functioning, Activity, Energy, and Vitality Aspects of Health-related Quality of Life in Patients with Chronic Hepatitis C. Digestive Disease Week 2011, Chicago, IL

235. L Gerber, S Page, J Kallman Price, A Baranova, P Winter, Z Younossi. Association of Serum Biomarkers with Fatigue in Patients with Chronic Liver Disease. Digestive Disease Week 2011, Chicago, IL.
236. M Soni, M Awad, ME Earley, J Kallman Price, Z Younossi. Longitudinal Study of Dietary Habits and Activity Level in Patients with Chronic Liver Disease (CLD). Digestive Disease Week 2011, Chicago, IL
237. A Loria, J Price, C Escheik, P Winter, L Gerber, Z M Younossi. Examination of Patient Self-Reports of Exertion and Daily Activity Using Cardio Pulmonary Data Post Six Minute Walk Test in a Population of Chronic Liver Disease (CLD). American College of Gastroenterology Annual Meeting 2011, Washington DC
238. A Loria, J K. Price, P M. W, C Escheik, L Gerber, ZM Younossi. Associations between Patient Self Reports, Exercise Performance and Biological Markers of Inflammation and Metabolic Abnormalities in Patients with Chronic Liver Disease (CLD). American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA
239. E. Lawitz, Z.M. Younossi, P. Mehri, A. Rigney, Z. Krastev, K. Tchernev, D. Takov, W. A. Long. Early Viral Response of Controlled-Release Interferon Alpha2b and Ribavirin Vs. Pegylated-Interferon Alpha2b And Ribavirin In Treatment-Naïve Genotype1 Hepatitis C: 12 Week Results (Select-2 Trial). European Association for the Study of Liver Disease Meeting 45<sup>th</sup> Annual Meeting 2010, Vienna, Austria
240. W.A. Long, D. Takov, K. Tchernev, I. Kotzev, A. Rigney, Z. Krastev, S. Stoyanov, R. Balabanska, E. Lawitz, Z. Younossi, R. Ghalib, E. Zuckerman, R. Safadi, R. Tur-Kaspa, N. Assy, Y. Lurie. Q2week Controlled-Release-Interferon-Alpha2b+Ribavirin Reduces Flu-Like Symptoms >50% and Provides Equivalent Efficacy In Comparison To Weekly Pegylated-Interferon-Alpha2b+Ribavirin In Treatment-Naïve-Genotype-1-Chronic-Hepatitis-C: Results From Empower, A Randomized-Open-Label-12-Week-Comparison In 133 Patients. (Late Breaker). European Association for the Study of Liver Disease Meeting 45<sup>th</sup> Annual Meeting 2010, Vienna, Austria
241. Z. Younossi, D Limongi, M Stepanova, M Pierobon, A Afendy, L. Liotta, E. Petricoin. Protein Pathway Biomarkers Predicting Sustained Virologic Response (SVR) to Pegylated Interferon (PEG-IFN) and Ribavirin (RBV) in Patients with Chronic Hepatitis C (CH-C). European Association for the Study of Liver Disease, 45<sup>th</sup> Annual Meeting 2010, Vienna, Austria.
242. G Manyam, I Younossi, T Gramlich, A Baranova, Z Younossi, A Birerdinc, M Stepanova, A Afendy. Up-regulation of Matrix Metalloproteinase 9 (MMP-9) and Interleukin-8 (IL-8) in African-American Patients with Chronic Hepatitis C. Digestive Disease Week, Annual Meeting 2010, New Orleans, Louisiana
243. D Limongi, M Stepanova, A Afendy, M Pierobon , R Agrawal, L Liotta, E Petricoin, ZM Younossi. Protein Pathway Biomarkers Predicting Sustained Virologic Response (SVR) to Pegylated Interferon (PEG-IFN) and Ribavirin (RBV) in Treatment-Naïve Genotype 1 Patients with Chronic Hepatitis C. (Oral Presentation, Plenary Session) Digestive Disease Week, Annual Meeting 2010, New Orleans, Louisiana. D Desai, M Estep, A Birerdinc, H Mir, A Baranova, V Chandhoke, ZM Younossi. Markers of Insulin Resistance in During HCV Treatment: A Relationship to Sustained Virologic Response (SVR). Digestive Disease Week, Annual Meeting 2010, New Orleans, Louisiana
244. A Birerdinc, A Afendy, M Stepanova, I Younossi, A Baranova, ZM Younossi. Baseline Gene Expression Profile Associated with Development of Mild and Severe Anemia during Treatment of Chronic Hepatitis C (CH-C) Patients with Pegylated interferon and Ribavirin (PEG-IFN+RBV). American Association for Study of Liver Disease 2010, Boston MA
245. A Birerdinc, A Afendy, M Stepanova, I Younossi, A Baranova, ZM Younossi. Gene Expression Profiles Associated with Depression in Patients with Chronic Hepatitis C (CH-C). American Association for Study of Liver Disease 2010, Boston MA (Oral Presentation)
246. A Birerdinc, M Stepanova, D Limongi, A Afendy, M Pierobon, I Younossi, L Liotta, A Baranova, E Petricoin, ZM Younossi. AKT Activation is Associated with Sustained Virologic Response (SVR) After Treatment with Pegylated Interferon-alfa and Ribavirin (PEG-IFN+RBV) in Patients with Chronic Hepatitis C (CH-C). American Association for Study of Liver Disease 2010, Boston MA

247. A Walker, E Lawitz, Y Lurie, Z Krastev, D Takov, KG Tchernev, A Rigney, N Assy, Z M Younossi. Adverse Event Reporting During HCV Treatment Via Weekly Clinic Visits Substantially Underestimates Flu Frequency & Severity Compared To Daily ePRO: Results From 133 Patients In EMPOWER. American Association for Study of Liver Disease 2010, Boston MA (Late Breaker). American Association for Study of Liver Disease 2010, Boston MA
248. Ed Gane, Samuel S. Lee, E. Jenny Heathcote, William Sievert, Huy Trinh, Kelly Kaita, Zobair Younossi, Jacob George, Patrick Marcellin, Derek Coombs, Jane Anderson, Elsa Mondou. Efficacy and Safety of Tenofovir Disoproxil Fumarate (TDF) in Asians with HBeAg-positive and HBeAg-negative Chronic Hepatitis B (CHB), Four Year Preliminary Analysis. The Asian Pacific Study of Liver Disease (APASL 2011), Bangkok Thailand (Oral Presentation).
249. Z Younossi, A. Sanyal, N. Bass, K. Mullen, F. Poordad, A. Shaw, K. Merchant, E. Bortey, W.P. Forbes, S. Huang. The Impact of Rifaximin on Health-Related Quality of Life of Cirrhotic Patients With Hepatic Encephalopathy. Digestive Disease Week 2011, Chicago, IL)
250. Z Younossi, M Stepanova, B Lam, F Nader. Rate Vaccination against Hepatitis A and B in Patients with Chronic Liver Diseases and Patients with Type 2 Diabetes: A Population-Based Study. Digestive Disease Week 2011, Chicago, IL
251. M Srishord, ZM Younossi, M Stepanova, Y Younossi, S Hallaji. Effectiveness of Recommendations for Hepatitis A (HAV) and Hepatitis B (HBV) Vaccinations for Patients with Chronic Liver Diseases. Digestive Disease Week 2011, Chicago, IL.
252. ZM Younossi, A Birerdinc, R Mehta, L Wang, A Afendy, M Stepanova, H Elariny, A Moazzez, Z Goodman, V Chandhoke, A Baranova. Expression of Energy Metabolism Related to Genes in the Gastric Tissue of Obese Patients. Digestive Disease Week 2011, Chicago, IL.
253. ZM Younossi, M Estep, H Sharma, G Vernon, D Armistead, N Hossain, H Elariny, Z Goodman, V Chandhoke, A Baranova. Expression Levels of IL20, MTOR, IL13RA1, and SEMA4C are increased in the visceral adipose tissue in patients with Non-alcoholic Steatohepatitis while there is a decrease in the expression levels of their regulatory miRNAs. Digestive Disease Week 2011, Chicago, IL.
254. ZM Younossi, H Sharma, M Estep, D Armistead, G Vernon, N Hossain, A Moazzez, Z Goodman, V Chandhoke, A Baranova. Expression Level for miRNA Processing enzymes DICER1, RNASEN, DGCR8 are increased in the visceral adipose tissue of non-alcoholic steatohepatitis (NASH) patients. Digestive Disease Week 2011, Chicago, IL.
255. ZM Younossi, M Soni, M Awad, ME Earley, J Kallman. Logitudinal Study of Dietary Habits and Activity Levels in Patients with Chronic Liver Disease. Digestive Disease Week 2011, Chicago, IL.
256. H Mir, ZM Younossi, M Stepanova, B Lam, I Younossi. Low Vaccination Rates against Hepatitis A (HAV) and Hepatitis B (HBV) in Patients with Chronic Liver Disease and Type II Diabetes (DM): A Study of the U.S. Population. Digestive Disease Week 2011, Chicago, IL.
257. ZM Younossi, L Gerber, S Page, J Kallman, A Baranova, P Winter. Association of Serum Biomarkers in Patients with Chronic Liver Disease. Digestive Disease Week 2011, Chicago, IL.
258. ZM Younossi, T Leslie, J Kallman, L Pawloski, M Soni, M Awad, N Hossain, Y Fang. The Impact of Sociogeographic, Nutritional and Activity Factors on Patients with Chronic Liver Disease (CLD). Digestive Disease Week 2011, Chicago, IL.
259. ZM Younossi, N Rafiq, M Stepanova, H Makhlof, R Agrawal, Z Younoszai, S Hallaji, Z Goodman. Agreement between Different Pathologic Criteria for Non-Alcoholic Steatohepatitis. Eurpoean Association for the Study of the Liver, April 2011, Berlin, Germany.
260. ZM Younossi, L Gerber, S Page, J Kallman, M Awad, M Soni, W Yang, A Baranova, P Winter. Self-reports Distinguish Different Types of Fatigue in Patients with Chronic Liver Disease (CLD). Eurpoean Association for the Study of the Liver, April 2011, Berlin, Germany.
261. ZM Younossi, M Stepanova, N Rafiq, H Makhlof, I Kaur, Z Younoszai, R Agrawal, Z Goodman. Pathologic Features of Non-alcoholic Steatohepatitis (NASH) as Independent Predictors of of Liver-related mortality. Eurpoean Association for the Study of the Liver, Berlin, April 2011, Germany.

262. A Loria, L Wang, K Doyle, G Diao, L Gerber, ZM Younossi. Relationships between Exercise Performance, Metabolic Measures and Inflammatory Markers in Patients with Chronic Liver Disease (CLD). Digestive Disease Week 2012, San Diego, CA.
263. A Loria, J Price, C Escheik, L Gerber, ZM Younossi. Validation of Borg Self-Reported Activity and Exertion with Physical Performance Measures in Subjects with Chronic Liver Disease (CLD). Digestive Disease Week 2012, San Diego, CA.
264. A Mishra, M Otgonsuren, C Venkatesan, M Afendy, M Erario, ZM Younossi. The Impact of Hepatocellular Carcinoma (HCC) in the United States (U.S.) from 2005 to 2009. Digestive Disease Week 2012, San Diego, CA. Oral Presentation
265. B Lam, M Stepanova, N Rafiq, F Nader, M Srishord, ZM Younossi. Prevalence of Liver Disease in Individuals with Human Immunodeficiency Virus (HIV) Infection. Digestive Disease Week 2012, San Diego, CA.
266. C Nguyenngo, M Estep, M Afendy, Z Goodman, A Baranova, ZM Younossi. Clinical and Metabolic Profile of Morbidly Obese Patients with Non-alcoholic Steatohepatitis (NASH). Digestive Disease Week 2012, San Diego, CA.
267. M Estep, D Van Natta, H Elariny, Z Goodman, A Baranova, ZM Younossi. An Expression of Agouti-related Protein Homologue (AgRP) Encoding Gene in Visceral Adipose Tissue (VAT) Negatively Correlates with the Numbers of Glycogenated Hepatocyte Nuclei. Digestive Disease Week 2012, San Diego, CA.
268. ZM Younossi, M Otgonsuren, C Venkatesan, M Erario, A Mishra, M Srishord. The Inpatient Mortality and Economic Impact of Digestive Disease in the United States (U.S.) from 2005. Digestive Disease Week 2012, San Diego, CA.
269. A Biredinc, M Abawi, M Stepanova, A Afendy, A Baranova, Z Goodman, ZM Younossi. Vitamin D may be Protective against Apoptosis in Patients with Non-alcoholic Steatohepatitis (NASH). European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
270. ZM Younossi, M Otgonsuren, C Venkatesan, M Afendy, M Erario, A Mishra. Inpatient Mortality and Resource Utilization Associated with Hepatocellular Carcinoma (HCC) in the United States from 2005-2009. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
271. M Stepanova, Z Younossi, A Mishra, C Venkatesan, F Nader, B Lam. The economic impact of hepatic encephalopathy (HE) in the United States (U.S.): National inpatient data from 2005 to 2009. European Association for the Study of the Liver, April 2012, Barcelona Spain
272. A Mishra, Z Younossi, M Otgonsuren, C Venkatesan, M Afendy, M Erario. Inpatient mortality and resource utilization associated with hepatocellular carcinoma (HCC) in the United States (U.S.) from 2005 to 2009. European Association for the Study of the Liver, April 2012, Barcelona Spain
273. Z Younossi, A Biredinc, M Abawi, M Stepanova, A Afendy, A Baranova, Z Goodman. Vitamin D may be protective against apoptosis in patients with non-alcoholic steatohepatitis (NASH). European Association for the Study of the Liver, April 2012, Barcelona Spain
274. Z Younossi, D Armistead, M Estep, H Elariny, A Moazzez, A Baranova. Systems biology analysis of non-alcoholic steatohepatitis related to miRNA expression. American Association for the Study of Liver Disease, November 2012, Boston, MA.
275. Z Younossi, M Otgonsuren, M Afendy, A Mishra, C Venkatesan, H Mir. Association of chronic liver disease with depression: A population-based study. American Association for the Study of Liver Disease, November 2012, Boston, MA.
276. Z Younossi, M Otgonsuren, C Venkatesan, A Mishra, M Erario. Morality and resource utilization associated with the inpatient diagnosis of liver disease in the United States. Statins are not associated with liver-related morality. American Association for the Study of Liver Disease, November 2012, Boston, MA.
277. M Erario, M Srishord, L Zheng, M Stepanova, Z Younossi. Statins are not associated with liver-related morality. American Association for the Study of Liver Disease, November 2012, Boston, MA.



278. Z Younossi, M Abawi, L Wang, M Hashemi, A Biredinc, V Chandhoke, Ancha Baranova. Vitamin D and PTH levels in Morbidly Obese Patients with and without Chronic Liver Disease. American College of Gastroenterology Annual Meeting, October 2012, Las Vegas, NV.
279. A Biredinc, Q Tran, R Mehta, A Baranova. Role of Chemokine ligand 21 (CCL21) and Macrophage Inflammatory protein 1 Beta (MIP-1 beta) in NF-kB mediated Fas Signaling. Virginia Academy of Science, May 2012, Norfolk, VA.
280. L Gerber, M Mahmoodi, K Doyle, A Biredinc, A Baranova. Exploration of Correlations between TGF-B or Cortisol Fatigue in Survivors of Breast Carcinoma. Virginia Academy of Science, May 2012, Norfolk, VA.
281. MJ Estep, C Gerner, A Biredinc, Z Younossi, A Baranova. Investigation and Analysis of the Molecular Biology and Evolution of the Appetite Regulating Hormone Agouti-related protein (AgRP). Virginia Academy of Science, May 2012, Norfolk, VA.
282. A Biredinc, J Frost, R Mehta, R Tran. Design and validation of primers for quantitative analysis of the role of chemokines CCL4 and CCL21 in Fas mediated NF-KB pathway. Virginia Academy of Science, May 2012, Norfolk, VA.
283. A Baranova, K Doyle, R Mehta, Z Younossi, A Biredinc. Mitochondrial DNA as a quantitative marker of brown adipose activity. Virginia Academy of Science, May 2012, Norfolk, VA.
284. A. Biredinc, A. Afendy, M. Stepanova, I. Younossi, G. Manyam, A. Baranova, Z. Younossi. Antigen Processing And Proteasome Degradation Pathways Are Involved In Patients With Chronic Hepatitis C With Negative Predictors Of Response To Pegylated Interferon And Ribavirin. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany
285. Z.M. Younossi, J.M. Estep, A. Biredinc<sup>1,2</sup>, M. Stepanova, A. Baranova, I.Younossi<sup>1</sup>, A. Afendy. IL28B-CC Genotype-Related Gene Expression during Treatment of Chronic Hepatitis C With Pegylated Interferon-Alfa And Ribavirin: Potential Mechanisms For Sustained Virologic Response. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany
286. M Stepanova, B Lam, Y Younossi, M Srishord, ZM Younossi. The Impact of Hepatitis C and Obesity on the Prevalence of Type 2 Diabetes in the U.S. General Population. Digestive Disease Week 2011, Chicago, IL. Oral Presentation
287. W.A. Long, Z. Younossi, E. Lawitz, I. Kostev, D. Takov, K. Tchernev, A. Rigney, R. Ghalib, S. Stoinov, R. Balabanska, P. Mehra, Z. Krastev. Onset Times And Rates Of Depression Reported During Hcv Treatment As Adverse Events At Clinic Visits Are Similar To Those Detected By Beck's Depression Index: Results From Select-2, A Randomized-Open-Label-72-Week-Comparison Of Two IFNa's In 116 Patients With Genotype-1 Treatment-Naïve HCV. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany
288. S Zeuzem, P Andreone, S Pol, E Lawitz, M Diago, S Roberts, R Focaccia, Z Younossi, G Foster, A Horban, R Van Heeswijk, S de Meyer, D Luo, G Picchio, M Beumont. Telaprevir-based regimen in genotype 1 hepatitis C virus-infected patients with prior null response, partial response or relapse to peginterferon/ribavirin: REALIZE trial final results. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany, Oral Presentation
289. S Pol, J Aerssens, S Zeuzem, P Andreone, E Lawitz, S Roberts, Z Younossi, G Foster, R Van Heeswijk, S de Meyer, D Luo, M Boytfield, M Beumont, G Picchio. Similar SVR Rates In IL28B CC, CT or TT Prior Relapser, Partial- Or Null-Responder Patients Treated With Telaprevir/Peginterferon/Ribavirin: Retrospective Analysis Of The Realize Study. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany, Oral Presentation
290. G Foster, S Zeuzem, P Andreone, S Pol, E Lawitz, M Diago, S Roberts, P Pockros, Z Younossi, R Focaccia, A Horban, I Lonjon-Domanec, R Van Heeswijk, S de Meyer, D Luo, M Beumont, G Picchio.

- Subanalyses of The Telaprevir Lead-In Arm In The Realize Study: Response At Week 4 Is Not A Substitute For Prior Null Response Categorization. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany, Oral Presentation
291. ZM. Younossi, J Aerssens, S Pol ,P Pockros, EJ Lawitz, S Zeuzem, P Andreone, S Roberts, R Focaccia, G Foster, A Horban R Van Heeswijk, S de Meyer, D Luo, M Botfield, M Beumont, G Picchio. Similar SVR Rates in IL28B CC, CT OR TT Prior Relapser, Partial- OR Null-Responder Patients Treated with Telaprevir/Peginterferon/Ribavirin: Retrospective Analysis of the REALIZE Study. Digestive Disease Week 2011, Chicago, IL, Oral Presentation
  292. E Lawitz, G Foster, S Zeuzem, P Pockros,<sup>4</sup> Z Younossi, P Andreone, S Pol, M Diago, S Roberts, R Focaccia , A Horban, I Lonjon-Domanec, R Van Heeswijk, S de Meyer, D Luo, M Beumont, G Picchio. Subanalyses to the Telaprevir Lead-in Arm in the REALIZE Study: response at Week 4 is not a Substitute for Prior Null Response Categorization. Digestive Disease Week 2011, Chicago, IL, Oral Presentation
  293. E. Lawitz, Z. Younossi, P. Mehra, A. Rigney, Z. Krastev, K. Tchernev, D. Takov, W.A. Long. Sustained viral response rate of controlled-release interferon alpha 2b (CR2b) and ribavirin compared to pegylated interferon alpha 2b (PEG2b) and ribavirin in treatment-naïve genotype 1 (G1) hepatitis C: final Results of the SELECT-2 trial. The International Liver Congress 2011 - 46th annual meeting of the European Association for the Study of the Liver (EASL) 2011, Berlin, Germany
  294. Z Younossi, E Lawitz, Z Krastev, A Rigney, K Tchernev, D Takov, R Ghalib, W Long. SELECT-2 Clinical Trial Assessing The Efficacy And Safty Of Controlled-Release Interferon Alpha-2b (CR2b)+Ribavirin (RBV) Versus Pegylated Interferon Alpha-2b (PEG2b)+RBV In Treatment-Naïve Genotype-1 (G1) Hepatitis C. Digestive Disease Week 2011, Chicago, IL
  295. L McGarry, G Davis, Z Younossi, V Pawar, J Rubin, Parekh, M Weinstein. The Impact of Birth-Cohort Screening for Hepatitis C Virus (HCV) Compared with Current Risk-Based Screening on Lifetime Incidence of and Mortality from Advanced Liver Disease (AdvLD) in the United States (US). Digestive Disease Week 2011, Chicago, IL, Oral Presentation
  296. P Pockros, S Zeuzem ,E J. Lawitz, ZM. Younossi, P Andreone, S Pol, M Diago, S Roberts, R Focaccia, G Foster, AHorban, RVan Heeswijk, S de Meyer, D Luo, G Picchio, M Beumont. Telaprevir-based Regimen in Genotype 1 Hepatitis C Virus-infected Patients with Prior Null Response, Partial Response or Relapse to Peginterferon/Ribavirin: REALIZE Trial Final Results. Digestive Disease Week 2011, Chicago, IL, Oral Presentation
  297. Richesh Guragain, Ancha Baranova, Zobair Younossi, Michael Estep Function in HCV patients with Different IL28B Allelic Groups. George Mason University, Undergraduate Research Day 2011.
  298. Stanislas Pol, Jeroen Aerssens, Stefan Zeuzem, Pietro Andreone, Eric J. Lawitz, Stuart Roberts, Zobair Younossi, Graham R. Foster, Roberto Focaccia, Andrzej Horban, Paul J. Pockros, Rolf Van Heeswijk, Sandra de Meyer, Don Luo, Martyn Botfield, Maria Beumont, Rudolf Stauber, Gaston Picchio. Similar SVR Rates In IL28B CC, CT Or TT Prior Relapser, Partial- Or Null-Responder Patients Treated With Telaprevir/Peginterferon/Ribavirin: Retrospective Analysis Of The Realize Study. ÖGIM 2011, Innsbruck, Austria
  299. G.R. Foster, S. Zeuzem, P. Andreone, S. Pol, E.J. Lawitz, M. Diago, S. Roberts, P.J. Pockros, Z. Younossi, I. Lonjon-Domanec, R. Van Heeswijk, S. de Meyer, D. Luo, S. George, M. Beumont, M. Gschwantler, G. Picchio. Subanalyses Of The Telaprevir Lead-In Arm In The Realize Study: Response At Week 4 Is Not A Substitute For Prior Null Response Categorization. OGGH 2011, Salzburg, Austria
  300. G Foster, S Zeuzem, P Andreone, S Pol, E Lawitz, M Diago, S Roberts, R Focaccia, Z Younossi, Andrzej Horban, Rolf Van Heeswijk, Sandra de Meyer, Don Luo, Gaston Picchio, Michael Gschwantler and Maria Beumont. Telaprevir-based therapy in G1 HCV-infected patients with prior null response, partial response or relapse to peginterferon/ribavirin: REALIZE trial final results. OGGH 2011, Salzburg, Austria
  301. A Birerdinc, M Estep, A Afendy, I Younossi, M Stepanova, A Baranova, ZM Younossi. The pre-treatment gene expression profile of Chronic Hepatitis C (CH-C) patients with IL28B T\* host genotype

- and HCV genotype 1 (G1) suggest an intrinsic deregulation in the inflammatory response mechanism. American College of Gastroenterology Annual Meeting 2011, Washington DC
302. J Price, L Gerber, F Nader, B Lam, M Otgonsuren, Z M Younossi. Validation of Central Fatigue (CF) Definition in Patients with Hepatitis C Before, During, and After Treatment with Pegylated Interferon and Ribavirin. American College of Gastroenterology Annual Meeting 2011, Washington DC
  303. R Guragain, JM Estep, A Afendy, M Stepanova, V Chandhoke, A Baranova, ZM Younossi. Hepatic Steatosis and Serum Glucose Negatively Affect Sustained Virologic Response (SVR) After Treatment with Pegylated Interferon Alfa and Ribavirin (PEG-IFN/RBV) in Chronic Hepatitis C (CH-C) Patients Carrying IL28B Non-“CC” Genotype. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  304. JM Estep, R Guragain, A Afendy, M Stepanova, A Baranova, ZM Younossi. Agreement of Two IL28B SNPs Associated with Sustained Virologic Response (SVR) in Genotype-1 Infected HCV Patients. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  305. A Baranova, A Birerdinc, JM Estep, R Guragain, A Afendy, M Stepanova, V Chandhoke, ZM Younossi. Down Regulation of SOCS1 Gene Is Associated with Lack of Sustained Virologic Response in Chronic Hepatitis C (CH-C) Patients Independent of Their IL28B Genotypes. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  306. A Birerdinc, JM Estep, A Afendy, M Stepanova, I Younossi, G Manyam, A Baranova, ZM Younossi. Differential response of IL 28B CC and T\* host genotypes to pegylated interferon and ribavirin (PEG-IFN/RBV) is defined by early gene expression response during the first week of treatment. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  307. Z Younossi, F Negro, L Serfaty, S Pol, M Diago, S Zeuzem, P Andreone, E. Lawitz, S Roberts, R Focaccia, GR. Foster, A Horban, I Lonjon-Domanec, B Coate, R DeMasi, G Picchio, J Witek. Impact of insulin resistance on virologic response to a telaprevir-based regimen in patients with HCV genotype 1 and prior peginterferon/ribavirin treatment failure: post hoc analysis of the REALIZE Phase III study. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  308. S Roberts, P Andreone, S Pol, Z Younossi, M Diago, EJ. Lawitz, R Focaccia, GR Foster, A Horban, I Lonjon-Domanec, R DeMasi, R Van Heeswijk, G Picchio, J Witek, S Zeuzem. Impact of anemia on sustained virologic response to a telaprevir-based regimen in patients with HCV genotype 1 and prior peginterferon/ribavirin treatment failure in the Phase III REALIZE study. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA.
  309. S Pol, S Roberts, P Andreone, Z Younossi, M Diago, EJ Lawitz, R Focaccia, GR Foster, A Horban, I Lonjon-Domanec, R DeMasi, R Van Heeswijk, S de Meyer, Gaston Picchio, J Witek, S Zeuzem. Efficacy and safety of telaprevir-based regimens in cirrhotic patients with HCV genotype 1 and prior peginterferon/ribavirin treatment failure: subanalysis of the REALIZE Phase III study. American Association for the Study of Liver Disease Annual Meeting 2011, San Francisco, CA
  310. ZM Younossi, M Stepanova, F Kanwal, H Elserag. Low Insurance Coverage Among Hepatitis C (HCV)-positive Individuals in the United States. Digestive Disease Week 2011, Chicago, IL.
  311. ZM Younossi, A Birerdinc, A Afendy, M Stepanova, I Younossi, G Manyam, A Baranova. Antigen Processing and Proteasome Degredation Pathways are involved in Patients with Chronic Hepatitis C with Negative Predictors of Response to Pegylated Interferon and Ribavirin. European Association for the Study of the Liver, April 2011, Berlin, Germany.
  312. C Venkatesan, J Price, C Escheik, L Gerber, ZM Younossi. Independent Predictors of Chronic Hepatitis C Virus (HCV) Infection and Short-term Mortality. Digestive Disease Week Annual Meeting, May 2012, San Diego, CA.
  313. Z Younossi. Predictors of Days Unable to Work Among Genotype 1 Treatment-naïve Chronic Hepatitis C Patients: Post Hoc Analyses of Data from Phase 3 ADVANCE and ILLUMINATE Studies. Digestive Disease Week Annual Meeting, May 2012, San Diego, CA
  314. M Estep, M Stepanova, A Afendy, E Petricoin, A Baranova, ZM Younossi. Proteomic Analysis of ITPA SNP rs1127354 Chronic Hepatitis C (CH-C) Patients Indicates Differential Regulation of Apoptosis Pathway Components. Digestive Disease Week Annual Meeting, May 2012, San Diego, CA.

315. Z Younossi, M Estep, M Stepanova, F Mongue, Z Younoszai, Z Goodman. Clinical, Pathologic and Gene Expression Association with Precent Collagen Measured by Computer Assisted Morphometry in Patient Chronic Hepatitis-C. American Association for the Study of Liver Disease Annual Meeting, November 2012, Boston, MA.
316. Z Younossi, L Rover, C Escheik, L Gerber, M Otgonsuren, F Nader. Factors Influencing Likelihood of compliance in chronic hepatitis C with patients receiving pegylated interferon plus ribavirin. American Association for the Study of Liver Disease Annual Meeting, November 2012, Boston, MA.
317. A Mishra, Z Younossi, M Stepanova, M Afendy, B Lam. Knowledge about infection is the only predictor of treatment in patients with chronic hepatitis C (CH-C). American Association for the Study of Liver Disease Annual Meeting, November 2012, Boston, MA.
318. Z Younossi, M Stepanova, C Venkatesan, Z Younoszai, M Srishord, A Mishra. Association of hepatitis C (HCV) with diabetes mellitus (DM) hypertension (HTN) and cariovascular diseases (CVD). American Association for the Study of Liver Disease Annual Meeting, November 2012, Boston, MA.
319. Z Younossi, A Mishra, M Otgonsuren, C Venkatesan. Resource Utilization, Morality and Disease Severity Trends in Patients Hospitalized for Hepatitis C in the United States. American College of Gastroenterology Annual Meeting, October 2012, Las Vegas, NV.
320. H Mir, Z Younossi, M Stepanova, F Negro, C Venkatesan, A Mishra, M Erario. Low serum ferritin is an independent predictor of hepatitis C virus (HCV) clearance: A population-based study. European Association for the Study of the Liver Annual Meeting, April 2012, Barcelona, Spain.
321. ZM Younossi, M Stepanova, F Negro, C Venkatesan, A Mishra, H Mir. Low Serum Ferritin is an Independent Predictor of Hepatitis C Virus (HCV) Clearance. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
322. N. Hernandez, M. Vera-Llonch, J. Aggarwal, M. Donepudi, Z. Younossi, T. F. Goss. Predictors Of Days Unable To Work Among Genotype 1 Treatment-Naïve Chronic Hepatitis C Patients: Post-Hoc Analyses Of Data From Phase 3 Advance And Illuminate Studies. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
323. Younossi Z, Aggarwal J, Martin M, Hernandez N, Donepudi M, Bayliss M, Goss T, Vera-Llonch M. Health-related quality-of-life among genotype 1 treatment-naïve chronic hepatitis C patients receiving telaprevir combination treatment: Post-Hoc Analyses of Data from the ADVANCE trial. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
324. M Otgonsuren, M Stepanova, C Venkatesan, L Gerber, ZM Younossi. Anthropometric and Clinical Factors Associated with Overall and Liver Specific Mortality with Non-alcoholic Fatty Liver Disease. Digestive Disease Week 2012, San Diego, CA.
325. A Mishra, M Otgonsuren, C Escheik, L Gerber, ZM Younossi. Non-alcoholic Fatty Liver Disease (NAFLD) with Type 2 Diabetes have the Lowest Level of Physical Activity. Digestive Disease Week 2012, San Diego, CA.
326. A Baranova, M Abawi, L Wang, Z Goodman, V Chandhoke, M Estep, ZM Younossi. Alpha Melanocyte-stimulating Hormone (MSH), Melanin-concentrating Hormone (MCH), and Obestatin are Associated with Hepatic Inflammation in Morbidly Obese Non-alcoholic Fatty Liver Disease (NAFLD) Patients. Digestive Disease Week, 2012 San Diego, CA.
327. A Birerdinc, M Estep, R Mehta, L Wang, A Afendy, Z Goodman, A Baranova, ZM Younossi. Multi-System Analysis of the Inflammatory –Immunomodulatory-Obesity Axis in the Pathology on Non-alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week 2012, San Diego, CA.
328. T Tran, A Birerdinc, R Mehta, L Wang, A Afendy, A Baranova, ZM Younossi. Non-alcoholic Fatty Liver Disease (NAFLD) Patients with Polycystic Syndrome (PCOS) have Differential Expression of Apoptosis and Energy Metabolism Related Molecules. Digestive Disease Week 2012, San Diego, CA.
329. Z Younossi, C Nguyenngo, M Estep, M Afendy, Z Goodman, A Baranova. Clinical and Metabolic Profile of Morbidly Obese Patients with Non-alcoholic Steatohepatitis (NASH). Digestive Disease Week 2012, San Diego, CA.

330. A Birerdinc, M Abawi, M Stepanova, A Afendy, A Baranova, ZM Younossi. Vitamin D Levels Significantly Correlate with Marker of Apoptosis in Patients with Non-alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week 2012, San Diego, CA. Oral Presentation
331. A Mishra, M Otgonsuren, M Stepanova, L Gerber, ZM Younossi. Non-alcoholic Fatty Liver Disease (NAFLD) is associated with Low Level of Physical Activity: A Population-based Study. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
332. M Stepanova, M Afendy, M Srishord, A Mishra, ZM Younossi. Sleep Disordered Breathing in Individuals with Non-alcoholic Fatty Liver Disease (NAFLD). European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
333. M Estep, Z Goodman, A Zirzow, A Afendy, H Elariny, A Baranova, ZM Younossi. Differential Expression of Hepatic FAS and ITS Ligand FASLG Expression in Non-alcoholic Fatty Liver Disease (NAFLD). European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
334. M Otgonsuren, M Stepanova, C Venkatesan, M Erario, L Gerber, ZM Younossi. Clinical and Anthropometric Factors Associated with Liver-specific Mortality in Subjects with Non-alcoholic Fatty Liver Disease (NAFLD). European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
335. M Stepanova, ZM Younossi. Non-alcoholic Fatty Liver Disease is a Predictor of Cardiovascular Diseases. Oral Presentation. European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
336. Z Younossi, R Mehta, J Frost, A Birerdinc, V Chandhoke, A Baranova. Target chemokines of inflammatory pathways leading to pathogenesis of non-alcoholic fatty liver disease (NAFLD). European Association for the Study of the Liver Annual Meeting 2012, Barcelona, Spain.
337. Z Younossi, R Mehta, A Neupane, A Birerdinc, A Baranova, A Afendy, Z Goodman. Inflammasomes in Obesity Associated with Non-alcoholic Fatty Liver Disease. September 2012, Potomac, MD.
338. Z Younossi, J Price, A Loria, C Escheik, P Winter, L Rover, L Gerber. Abnormal Cardiac and Metabolic Measures Correlate with Significantly Lower Physical Performance and Activity Level in Overweight Patients with Hepatitis C (HCV) and Non-alcoholic Fatty Liver Disease. American Association for the Study of Liver Diseases Annual Meeting, Boston, MA, November 2012.
339. Z Younossi, A Baranova, Z Goodman, A Afendy, JM Estep. Agouti-related Protein (AGRP) RNA Expression in Visceral Adipose Tissue of Non-alcoholic Fatty Liver Disease (NAFLD) Patients. American Association for the Study of Liver Diseases Annual Meeting, Boston, MD, November 2012.
340. Z Younossi, A Karrar, R Mehta, M Stepanova, A Afendy, Z Goodman. HLA-A31 Gene Loci is strongly predictive of histologic non-alcoholic steatohepatitis and advanced fibrosis in patients with non-alcoholic fatty liver disease. American Association for the Study of Liver Diseases Annual Meeting, Boston, MD, November 2012
341. Z Younossi, T Tran, A Birerdinc, R Mehta, L Wang, A Afendy, A Baranova. Polycystic ovarian syndrome (PCOS) in patients with Non-Alcoholic fatty liver disease (NAFLD): Gene expression related to apoptosis and energy metabolism. American Association for the Study of Liver Diseases Annual Meeting, Boston, MD, November 2012.
342. Z Younossi, R Mehta, A Afendy, A Baranova, Z Goodman. Differential Expression of inflammasomes components of patients with non-alcoholic fatty liver disease (NAFLD). American Association for the Study of Liver Diseases Annual Meeting, Boston, MA, November 2012.
343. Z Younossi, R Mehta, J Frost, Q Tran, A Birerdinc, A Baranova. Target chemokines of inflammatory pathways leading to pathogenesis of non-alcoholic fatty liver disease (NAFLD). American Association for the Study of Liver Diseases Annual Meeting, Boston, MA, November 2012.
344. F Nader, Z Younossi, M Otgonsuren, C Venkatesan, H Mir. Long-term mortality outcome of metabolically normal individuals with non-alcoholic fatty liver disease (NAFLD). American Association for the Study of Liver Diseases Annual Meeting, Boston, MA, November 2012.
345. Z Younossi, JM Estep, G Matharoo, N Hossain, C Nguyenngo, Z Goodman, A Baranova. Elevated Fasting Serum Glucose in Non-Alcoholic Fatty Liver Disease (NAFLD) Patients is Correlated with the

- Degree of Steatosis. American College of Gastroenterology Annual Meeting, Las Vegas, NV, October 2012.
346. Z Younossi, A Karrar, R Mehta, S Hariharan, K Lee, M Stepanova, Z Goodman. HLA-A11 Gene Loci Is Strongly Predictive of Susceptibility to Severe Hepatic Steatosis in Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). American College of Gastroenterology Annual Meeting, Las Vegas, NV, October 2012.
  347. Z Younossi, SE Stolworthy, A Birerdinc, A Baranova, R Mehta. Gene expression pattern analysis in gastric tissue of patients with Non-Alcoholic Fatty Liver Disease. Virginia Academy of Science, Norfolk, VA, May 2012.
  348. Z Younossi, M Hashemi, M Abawi, A Birerdinc, A Baranova. Levels of PTH indicate a shift in vitamin D metabolism in patients with NAFLD and morbid obesity. Virginia Academy of Science, Norfolk, VA, May 2012.
  349. M Estep, D Van Natta, A Birerdinc, Z Younossi, A Baranova. Agouti-related protein (AgRP) and its Relationship to Non-Alcoholic Fatty Liver Disease (NAFLD). Virginia Academy of Science, Norfolk, VA, May 2012.
  350. A Baranova, S Bangash, L Wang, M Estep. Energy Homeostasis Regulators Indicating the Development of NAFLD. Virginia Academy of Science, Norfolk, VA, May 2012.
  351. Z Younossi, A Loria, C Eschick, L Gerber, J Kallman. The Chronic Liver Disease Questionnaire-Hepatitis C (CLDQ-HCV): A sensitive and valid health related quality of life instrument. American Association for the Study of Liver Disease Annual Meeting 2012, Boston, MA.
  352. Z Younossi, J Price, A Loria, C Escheik, P Winter, L Rover, H Ziayee, L Gerber. Chronic Liver Disease (CLD) Patients with Pre-hypertensive Diastolic Blood Pressure Report Significantly Worse Symptomatology, Maximum Activity Level, and Quality of Life (QoL). American College of Gastroenterology Annual Meeting 2012, Las Vegas, NV.
  353. Z Younossi, C Escheik, L Gerber, L Rover, Z Arsala, M Otgonsuren. Validation of CLDQ-HCV As a Health Related Quality of Life (HRQL) Instrument for Patients with Chronic Hepatitis C (CH-C). American College of Gastroenterology Annual Meeting 2012, Las Vegas, NV.
  354. A Mishra, C Venkatesan, N Siegel, M Stepanova, ZM Younossi. Trends in hospitalized Venous Thromboembolic Diseases in the United States. (Oral Presentation). Chest 2012, Atlanta GA
  355. Chapy Venkatesan; Zobair Younossi, Alita Mishra, Munkhzul Otgonsuren, Pooja Singhal. Trends in Mortality and Resource Utilization in Patients Hospitalized with a Principal Diagnosis of Liver Disease. Academy Health Annual Research meeting 2012, Orlando, FL
  356. Z Younossi, R Mehta, M Keaton, K Doyle, L Wang, A Birerdinc, Z Goodman, A Baranova. Expression and Systems Biology Analysis of T-Cell and Macrophage Specific Factors in Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). European Association for the Study of the Liver, Amsterdam, Netherlands, April 2013.
  357. Y Fang, Z Younossi, M Otgonsuren, S Hunt, A Afendy, Z Goodman. Development and Validation of NASH Diagnostic Index as a Non-Invasive Model for Diagnosing Non-Alcoholic Steatohepatitis (NASH). European Association for the Study of the Liver, Amsterdam, Netherlands, April 2013.
  358. Z Younossi, E Elsheikh, Z Younoszai, M Otgonsuren, S Hunt, B Raybuck. High Serum Endocan is a Marker of Endothelial Dysfunction in Patients with Non-Alcoholic Fatty Liver Disease (NAFLD) and Coronary Artery Disease (CAD). European Association for the Study of the Liver, Amsterdam, Netherlands, April 2013.
  359. Z Younossi, K Doyle, A Birerdinc, L Wang, R Mehta, Z Younoszai, Z Goodman, A Baranova. The Levels of TGFB1 Production in Adipose Indicate the Complexity of the Relationship Between Depression and Anxiety Disorders in Obese Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
  360. Z Younossi, M Abawi, A Birerdinc, L Wang, K Doyle, A Afendy, H Elariny, A Baranova. The Hormonal Regulation of Vitamin D Metabolism is Substantially Modified in Obese Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.

361. Z Younossi, MJ Estep, S Hunt, E Younossi, F Monge, Z Goodman. The Expression of FAS FASLG in the Hepatic and Visceral Adipose Tissues (VAT) of Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
362. Z Younossi, R Mehta, M Keaton, L Wang, A Birerdinc, K Doyle, A Baranova, A Moazzez, H Elariny. The Balance of T-Lymphocyte Specifying Transcription Factors and the Cytokine Expression in Obese Patients With Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
363. Z Younossi, A Karrar, L Zheng, A Moosvi, S Hunt, Z Goodman, H Mir, M Afendy. Prevalence and Significance of Serum Immunoglobulin M and G Concentration in Patients with Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
364. Z Younossi, MJ Estep, N Hossain, M Otgonsuren, E Younossi, H Mir. Assessment of Fatty Liver Index (FLI) for the Diagnosis of Non-Alcoholic Fatty Liver Disease (NAFLD) in Morbidly Obese Patients. Digestive Disease Week, Orlando, FL, May 2013.
365. Z Younossi, J Price, C Eschick, A Weinstein, P Winter, Z Arsalla, L Gerber. Medications Affecting the Autonomic Nervous System (ANS) Do Not Explain Abnormal Diastolic Blood Pressure in Patients with Chronic Hepatitis C (CH-C) or Non-alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
366. Z Younossi, A Birerdinc, K Doyle, L Wang, E Dadkhah, R Mehta, A Afendy, A Baranova, Z Goodman. The Adipocyte-Derived Pro-Inflammatory and Fibrogenic Factors Differentially Influence Individual Pathogenetic Components of Non-Alcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week, Orlando, FL, May 2013.
367. Elzafir Elsheikh Abdelrahman, Zobair M Younossi, Zahra Younoszai, Sharon Hunt, Munkhzul Otgonsuren, Bryan Raybuck. The Potential Role of Serum Endocan in Patients with Nonalcoholic Fatty Liver Disease (NAFLD), Orlando, FL, May 2013.
368. Z Younossi, A Karrar, L Zheng, KS Malik, S Hunt, Z Goodman. Circulating miRNA in Coronary Artery Disease (CAD) and associated Non-Alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013
369. Z Younossi, A Birerdinc, K Doyle, L Wang, R Mehta, Z Younoszai, V Chandhoke, Z Goodman, A Baranova. Inflammatory Cytokines Released by Visceral Adipose Tissue (VAT) Is Associated with Development of Non-Alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
370. Z Younossi, L Byars, MJ Estep, Z Younoszai, M Srishord, A Baranova. Lipid Levels Do Not Correlate with IL28B Genotype for NAFLD Patients. American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
371. Z Younossi, M Stepanova, L Henry, J Cooper, S Kalwaney, C Venkatesan, A Mishra. Non-Alcoholic Fatty Liver Disease Fibrosis Score (NFS) is an Independent Predictor of Mortality in Patients with NAFLD. American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
372. Z Younossi, H Mir, Mike Estep, F Monge, M Otgonsuren, E ElSheikh, Z Goodman, S Hunt. Percent Collagen as Determined by Computer Assisted Morphometry Correlates with Serum CCL2 and IL7 in Non-Alcoholic Fatty Liver Disease (NAFLD) Patients. American Association for the Study of Liver Diseases, Washington, D.C., November 2013
373. Z Younossi, A Weinstein, J Price, P Winter, B Oe, C Escheik, A Loria, L Gerber. Perception of Effort during Exercise in Patients with Chronic Hepatitis C (CH-C) and Non-Alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
374. Z Younossi, M Estep, Z Goodman, F Monge, H Mir, L Alaparathi. Thiobarbituric Acid Reactive Substances (TBARS) but not 12-HETE or 13-HODE are Associated with Hepatic Collagen as Measured by Computer Assisted Morphometry in Patients with Non-Alcoholic Fatty Liver Disease. American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
375. Z Younossi, L Zheng, M Stepanova, L Henry, J Cooper, C Venkatesan, A Mishra. Trends in Outpatient Resource Utilizations and Outcomes for Medicare Beneficiaries with Non-Alcoholic Fatty Liver Disease. American Association for the Study of Liver Diseases, Washington, D.C., November 2013.

376. S Hunt, L Henry, M Otgonsuren, W Keo, A Saffran, Z Younossi. A Time Series Analysis of the Diet, Nutrition and Physical Activity Habits of Type 2 Diabetics: The Perfect Fuel for the Epidemic of Non-alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
377. R Mehta, S Sok, Z Younoszai, K Doyle, A Biredinc, L Wang, C Koob, V Chandhoke, A Baranova, Z Younossi. TGF-Beta Guided Inflammatory Signaling Originating in Visceral Adipose Tissue is Intrinsically Involved in the Etiology of Depression in Obese Patients with Non-alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
378. Z Younossi, A Karrar, L Zheng, K Malik, S Hunt, Z Goodman. Anti-Adipocyte Antibodies and Their Role in Non Alcoholic Fatty Liver Disease (NAFLD). American Association for the Study of Liver Diseases, Washington, D.C., November 2013.
379. Z Younossi, E Elsheik, Z Younoszai, S Hunt, M Otgonsuren, B Raybuck. The Potential Role of Serum Endocan in Patients with Nonalcoholic Fatty Liver Disease (NAFLD). Digestive Disease Week Annual Meeting, Orlando, FL, May 2013.
380. Z Younossi, M Stepanova, D Nelson, E Lawitz, F Nader, S Hunt. Health-related Quality of Life (HRQL) in Chronic Hepatitis C (CH-C) Patients Treated with Sofosbuvir Containing Interferon-Free Regimens. ISPOR 4<sup>TH</sup> Latin American Conference, Buenos Aires, Argentina, September 12-14, 2013.
381. Z Younossi, M Stepanova, L Gerber, F Nader, E Lawitz, D Nelson, S Hunt. Successful Treatment with Sofosbuvir (SOF) Regimen Improves Patient-Reported Outcomes (PROs) in Patients with Chronic Hepatitis C (CH-C). American College of Gastroenterology Annual Meeting, San Diego, CA, October 2013.
382. Z Younossi, M Stepanova, E Lawitz, D Nelson, K Kaita, F Nader, S Frost. Successful Treatment with Sofosbuvir Regimen Improves Fatigue Scores in Patients with Chronic Hepatitis C (CH-C). American Association for the Study of Liver Diseases Annual Meeting, Washington, D.C., November 2013.
383. Z Younossi, M Stepanova, E Lawitz, D Nelson, C Cooper, F Nader, M Afendy, S Hunt. Minimal Impact of Sofosbuvir+Ribavirin (SOF+RBV) on Work Productivity of Patients with Chronic Hepatitis C (CH-C). American Association for the Study of Liver Diseases Annual Meeting, Washington, D.C., November 2013.
384. Z Younossi, S Saab, S Gordon, A Ahmed, A Brogan, I Guerra. Evaluation of the Long-Term Health Outcomes Associated with Earlier Versus Later Initiation of Treatment in Previously Untreated Patients with Chronic Hepatitis C Virus Genotype 1 Infection. American Association for the Study of Liver Diseases Annual Meeting, Washington, D.C., November 2013.
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656. ZM Younossi, M Stepanova, M Omata, M Mizokami, H Lik, Y Chan, MHSuan Lee, ML Yu, YY Dan, MS Choi, YS Lim, I Younossi, S Hunt. The Impact of all Oral Regimen Ledipasvir/Sofosbuvir (LDV/SOF) On Patient-reported Outcomes (PROs) of Asian Patients with Chronic Hepatitis C (CHC), Asian Pacific Association for the Study of Liver. Shanghai, February 18, 2017.
657. ZM Younossi, M Stepanova, B Lam, J Kallman, L de Avila, A Racila. Patient-Reported Outcomes (Pros) In Patients with Chronic Hepatitis B with or without Viremia, Asian Pacific Association for the Study of Liver. Shanghai, February 18, 2017.
658. P Golabi, O Shahab, M Stepanova, M Sayiner, SC Clement, ZM Younossi. Long-Term Outcomes of Diabetic Patients with Non-alcoholic Fatty Liver Disease (NAFLD), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
659. ZM Younossi, M Stepanova, H Janssen, K Agarwal, MH Nguyen, EJ Gane, N Tsai, I Younossi, S Hunt. The impact of treatment of chronic hepatitis B (CHB) on patient-reported outcomes (PROs), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
660. P Cacoub, M Bourliere, T Asselah, V de Ledinghen, P Mathurin, C Hezode, L Henry, M Stepanova, ZM Younossi. French Hepatitis C (HCV) Patients Treated with Anti-viral Combinations Containing Pegylated Interferon (IFN), Ribavirin (RBV), Sofosbuvir (SOF), Ledipasvir (LDV), Velpatasvir (VEL)

- and/or Voxilaprevir (VOX): The Impact of Treatment on Patient-Reported Outcomes (PROs), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
661. M Stepanova, A Thompson, JS Doyle, L de Avila, I Younossi, L Henry, ZM Younossi. Hepatitis C Virus (HCV)-Infected Patients Receiving Opioid Substitution Therapy (OST) Experience Significant Increases in Patient-Reported Outcomes (PROs) Following Treatment with Anti-Viral Regimens, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
662. L de Avila, A Weinstein, MP Curry, P Golabi, JM Estep, C Escheik, A Birerdinc, M Stepanova, L Gerber, ZM Younossi. Changes in Serum Neurotransmitters (NTs) and Patient-Reported Outcomes (PROs) and Neurocognitive Performance (NCP) After Viral Eradication of Hepatitis C Virus (HCV)-Genotype 1 (GT1), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
663. L de Avila, A Weinstein, MP Curry, P Golabi, C Escheik, M Stepanova, L Gerber, ZM Younossi. Relationship between Neurocognitive Performance (NCP) and Patient-Reported Outcomes (PROs) in Patients with Genotype 1 (GT1) Hepatitis C Virus (HCV) With or Without Viremia, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
664. ZM Younossi, M Stepanova, EB Tapper, L Henry, AM Sheikh, MH Nguyen, N Reau, E Lawitz. Long-Term Follow-Up of Patient-Reported Outcomes (PROs) in Chronic Hepatitis C (HCV) Patients with Compensated and Decompensated Cirrhosis with Sustained Virologic Response (SVR), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
665. ZM Younossi, A Afendy, M Stepanova, A Racila, F Nader, R Gomel, R Safer, RP Myers, M Subramanian, J McHutchison, C Levy, CL Bowlus, KV Kowdley, AJ Muir. Development and Validation of a Primary Sclerosing Cholangitis Patient-Reported Outcome (PSC-PRO) Instrument, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
666. LM Nyberg, X Li, SJ Yang, KM Chiang, TC Cheetham, S Caparosa, ZM Younossi, AH Nyberg. Identification of Patient Groups Previously Not Candidates for Interferon Therapy for Chronic Hepatitis C and Implications for Planning and Budgeting for Treatment with Current Regimens (APASL), Asian Pacific Association for the Study of Liver. Shanghai, China. February 2017
667. ZM Younossi, M Stepanova, L Henry, I Younossi, A Tanaka, Y Eguchi, N Kawada, A Racila, S Hunt. The prevalence and costs associated with clinically overt extrahepatic manifestations of hepatitis C virus infection in Japan, Asian Pacific Association for the Study of Liver. Shenghai, China, February 2017.
668. ZM Younossi, A Tanaka, Y Eguchi, L Henry, R Beckerman, M Mizokami. Treatment of Hepatitis C Virus Leads to Economic Gain Related to Reduction in Cases of Hepatocellular Carcinoma (HCC) in Japan, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
669. C Nwankwo, BR Bacon, MP Curry, DT Dieterich, SL Flamm, KV Kowdley, S Milligan, N Tsai, ZM Younossi, NH Afdhal. Impact of treatment duration and ribavirin (RBV) addition on real-world effectiveness of elbasvir/grazoprevir (EBR/GZR) in select patient subgroups with Genotype 1 (GT1) Chronic Hepatitis C (HCV): Retrospective data analyses from the Trio Network., American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
670. SL Corman, BR Bacon, MP Curry, DT Dieterich, SL Flamm, Y Jiang, KV Kowdley, S Milligan, CNwankwo, N Tsai, ZM Younossi, NH Afdhal. Real-World Cost-Effectiveness Of Elbasvir/Grazoprevir (EBR/GZR) In Treatment-Naive (TN) Patients With Chronic Hepatitis C (CHC) Virus Genotype 1 (GT1) In The United States (US), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
671. SL Flamm, BR Bacon, MP Curry, DT Dieterich, KV Kowdley, S Milligan, N Tsai, ZM Younossi, NH Afdhal. Real-world patterns of therapy utilization and outcomes in 7098 genotype 1-6 HCV patients: data from the TRIO network, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
672. JM Estep, P Golabi, BP Lam, R Mehta, SC Felix, A Birerdinc, L Gerber, ZM Younossi. Circulating Kynurenic Acid Correlates with Improvement in the Fatigue Component of the FACIT Questionnaire

- in Chronic CH-C Patients Undergoing Treatment. American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
673. C Nwankwo, BR Bacon, MP Curry, DT Dieterich, SL Flamm, KV Kowdley, S Milligan, N Tsai, ZM Younossi, Nezam H. Afdhal. Utilization and Effectiveness of Elbasvir/Grazoprevir (EBR/GZR) in Treatment Naïve (TN) Genotype 1a (G1a) Chronic Hepatitis C Virus (HCV) Patients with/without Baseline NS5A resistance-associated substitutions (RASs), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
674. ZM Younossi, BR Bacon, MP Curry, DT Dieterich, SL Flamm, KV Kowdley, S Milligan, N Tsai, NH Afdhal. Cure denied and cure delayed in Chronic Hepatitis C; monitoring non-start rates and increased time to start using real-world data from the TRIO Network. American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
675. MP Curry, BR Bacon, DT Dieterich, SL Flamm, KV Kowdley, S Milligan, N Tsai, ZM Younossi, NH Afdhal. Drivers of Therapy Choice in Genotype 1 HCV: Analyses of real-world data from the TRIO Network, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
676. ZM Younossi, M Stepanova, T Asselah, GR Foster, K Patel, N Brau, MG Swain, TT Tran, R Esteban, M Colombo, S Pianko, L Henry, M Bourliere. Hepatitis C (HCV) in Patients without Fibrosis or with Minimal Fibrosis: The Impact of Treatment and Sustained Virologic Response (SVR) on Patient-Reported Outcomes (PROs), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
677. ZM Younossi, M Stepanova, F Nader, A Racila. Primary Biliary Cholangitis (PBC) is Associated with Significant Mortality and Health Care Utilization (HCU) in Medicare Population, American College Gastroenterology. Orlando, Florida October 16, 2017.
678. BR Bacon, MP Curry, DT Dieterich, SL Flamm, KV Kowdley, S Milligan, N Tsai, ZM Younossi, NH Afdhal. HCV Treatment Failure in the era of direct-acting antivirals (DAAs): Analyses of real-world data from the TRIO Network. American Association for the Study of Liver Diseases. Washintong, D.C. October 2017.
679. ZM Younossi, RS Epstein, M Strauss, S Dixit. Unmet Need of Patients with Primary Biliary Cholangitis (PBC) Based on Alkaline Phosphatase (ALP) Threshold Using Large Database with Electronic Medical Records (EMRs) and Claims Data: A Cross-sectional Analysis, American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
680. ZM Younossi, M Stepanova, L de Avila, A Ahmed, RJ Wong, S Saab, KV Kowdley, K Brown, M Kugelmas, A Racila. Liver Transplant (LT) Candidates with Primary Biliary Cholangitis (PBC) Experience Higher Wait List Mortality: Data from the Scientific Registry of Transplant Recipients (SRTR), American Association for the Study of Liver Diseases. Washington, D.C. October 2017.

## **LECTURES AND FACULTY PRESENTATIONS**

173. Timing of Liver Transplantation. 32<sup>nd</sup> Annual Cleveland Clinic Foundation. Gastroenterology Update. Cleveland, Ohio. November 1995.
174. A Cost Effective Evaluation of Patients with Elevated Liver Enzymes. 33rd Annual Cleveland Clinic Foundation, Gastroenterology Update. Cleveland, Ohio. November 1996.
175. A Clinical Overview of Chronic Hepatitis C: The Cleveland Clinic Foundation. Medical Grand Round. Cleveland, Ohio. March 1996.
176. Epidemiology of Hepatitis A, B and C. Hepatitis Foundation International. Cleveland, Ohio. May 1996.
177. Portal Hypertensive Bleeding. 34th Annual Cleveland Clinic GI Update. Cleveland, Ohio. 1997.
178. Management of Variceal Bleeding. Metro Health Medical Center. Cleveland, Ohio. Dec 1997.
179. First Update from American Association for the Study of Liver Disease. Course Director. Cleveland, Ohio. December 1997.
180. Portal Hypertensive Bleeding. 34th Annual Cleveland Clinic GI Update. Cleveland, Ohio. 1997.
181. Management of Variceal Bleeding. Metro Health Medical Center. Cleveland, Ohio. Dec 1997.

182. First Update from American Association for the Study of Liver Disease. Course Director. Cleveland, Ohio. December 1997.
183. Current Concepts in the Management of Acute Variceal Hemorrhage. Teleconference. Cleveland, Ohio. January-March 1998.
184. Hepatic Manifestations of Inflammatory Bowel Disease. The Cleveland Clinic IBD Course. 1998.
185. Portal Hypertensive Bleeding: The Role of the Endoscopist. 35th Annual Gastroenterology Update. The Cleveland Clinic Foundation. Cleveland, Ohio. November 1998.
186. Second Update from American Association for the Study of Liver Disease. Course Director. Cleveland, Ohio. December 1998.
187. Current Concepts in the Management of Acute Variceal Hemorrhage. Teleconference. Cleveland, Ohio. January-March 1998.
188. Hepatic Manifestations of Inflammatory Bowel Disease. The Cleveland Clinic IBD Course. 1998.
189. Portal Hypertensive Bleeding: The Role of the Endoscopist. 35th Annual Gastroenterology Update. The Cleveland Clinic Foundation. Cleveland, Ohio. November 1998.
190. Second Update from American Association for the Study of Liver Disease. Course Director. Cleveland, Ohio. December 1998.
191. Extrahepatic Complications of HCV Infection. The Cleveland Clinic Foundation. Medical Grand Round. Cleveland, Ohio. January 1998.
192. The Challenges of Hepatitis C for Generalists. The Cleveland Clinic Foundation, Department of CME. Cleveland, Ohio. April 1998.
193. Interferon and Ribavirin for Treatment of Chronic Hepatitis C. Cleveland, Ohio. September 1998.
194. Hepatitis C: An update. Akron Gastroenterologists. Akron, Ohio. October 1998.
195. Chronic Hepatitis C: A Review for Primary Care Physicians. Ashtabula County Medical Center. Ashtabula, Ohio. October 1998.
196. Update on Chronic Hepatitis C. 35th Annual Cleveland Clinic Gastroenterology Update. The Cleveland Clinic Foundation. Cleveland, Ohio. November 1998.
197. The Cleveland Clinic Intensive Review of Internal Medicine. Cleveland, OH. June 1999
198. An Update on Viral Hepatitis. Ob Gyn Grand Rounds. Cleveland Clinic Foundation. Cleveland, OH. August 1999.
199. The Cleveland Clinic Intensive Review of Internal Medicine. Cleveland, OH. June 1999
200. An Update on Viral Hepatitis. Ob Gyn Grand Rounds. Cleveland Clinic Foundation. Cleveland, OH. August 1999.
201. An Update on Hepatitis C: The Virus and the Disease. Buffalo NY. February 1999.
202. Beyond the 90's: A Healthier Focus for the New Millennium: An Update on Cleveland Hepatitis C. The Cleveland Clinic Foundation. Cleveland, Ohio. April 1999.
203. Treating Hepatitis C: Solutions for a Critical Need. Cleveland, OH. July 1999.
204. Treating Hepatitis C: Solutions for a Critical Need. Farmington, PA. July 1999.
205. Treating Hepatitis C: Solutions for a Critical Need. Hershey, PA. October 1999.
206. Panelist in the State Capitol for Hepatitis C Coalition. Columbus, OH. October 1999.
207. Understanding Evidence-Based Medicine. Course Director. The Clinic Foundation. Cleveland, Ohio. March 1999.
208. Methodologies in Healthcare Outcomes in Gastroenterology: AGAGRC San Diego, CA. December 1999.
209. Non-Alcoholic Fatty Liver Disease. Cleveland Clinic Medical Grand Round. Cleveland, OH. June 1999.
210. The Spectrum of Fatty Liver Disease. 36th Annual Cleveland Clinic Gastroenterology Update. Cleveland, OH. September 1999.
211. Non-Alcoholic Fatty Liver Disease: A Review. Department of Endocrinology Grand Round. The Cleveland Clinic Foundation. Cleveland, OH. October 1999.
212. Health-Related Quality of Life and Chronic Liver Diseases. Case Western Reserve University. Cleveland, Ohio. March 1999.

213. Health-Related Quality of Life in Clinical Research of Encephalopathy. 10th International Symposium on Hepatic Encephalopathy. Istanbul Turkey. May 1999.
214. Health Policy and Research. Co-Moderator Oral Presentation. American Association for the Study of Liver Disease Meeting. Dallas, TX. November 1999
215. Economic and Quality of Life Outcomes for Viral Hepatitis. Bluegrass Symposium on Chronic Viral Hepatitis. University of Kentucky. Lexington, KY. October 1999.
216. Outcomes Research and Chronic Liver Disease. Transplant Grand Round. Inova Fairfax Hospital. April 2000.
217. Quality of Life and Symptom Assessment in Hepatitis C. Lunch Breakout Session American Association for the Study of Liver Disease, Post-Graduate Course. Dallas, TX. October 2000.
218. Hepatitis C: A Silent Epidemic. Medical Grand Round. The Cleveland Clinic Foundation. Cleveland, OH. February 2000.
219. Treating Hepatitis C: Solutions for a Critical Need. Cleveland, OH. April 2000.
220. Treating Hepatitis C: Solutions for a Critical Need. Seattle, WA. May 2000.
221. Hepatitis C, Interferon and Depression. Talk for Local Gastroenterologists. Cleveland OH. June 2000.
222. Treating Hepatitis C: Solutions for a Critical Need. Mount Carmel, CA. July 2000.
223. Treating Hepatitis C: Solutions for a Critical Need. Boston, MA. July 2000.
224. Treating Hepatitis C: Solutions for a Critical Need. New York. August 2000.
225. The Impact of Hepatitis C. Inova Fairfax Hospital Medical Grand Round. Fairfax, VA. September 2000.
226. Non-Alcoholic Fatty Liver Disease. American Association for the Study of Liver Disease Regional Course. Chicago, IL. March 2000.
227. Hepatitis B, Non-alcoholic Steatohepatitis and Hemochromatosis. South Point Hospital. Cleveland, OH. May 2000.
228. Non-Alcoholic Steatohepatitis. Frontiers in Gastroenterology. Case Western Reserve University. Cleveland, OH. May 2000.
229. Non-Alcoholic Steatohepatitis. American College of Gastroenterology Post-Graduate Course. New York, NY. October 2000.
230. Pathogenesis of Non-alcoholic Steatohepatitis. American College of Gastroenterology. Early Breakfast Symposium on Non-alcoholic Steatohepatitis. New York, NY. October 2000.
231. Clinical Trial on Non-alcoholic Steatohepatitis. American Association for the Study of Liver Disease. Early Morning Breakfast Session. Dallas, TX. October 2000.
232. Basic Research in Non-alcoholic Steatohepatitis. American Association for the Study of Liver Disease. Early Morning Breakfast Session. Dallas, TX. October 2000.
233. Health-Related Quality of Life and Liver Transplantation. Transplant Grand Rounds UCLA. December 2001.
234. Non-Alcoholic Steatohepatitis. SHINE Investigator Meeting. Orlando, FL. February 2001.
235. Hepatitis C and Steatosis. SHINE Investigator Meeting. Orlando, FL. February 2001.
236. Non-Alcoholic Steatohepatitis. American Association for the Study of Liver Disease. Clinical Update in Hepatology. March 2001.
237. Non-Alcoholic Steatohepatitis Update. Clark Society. Washington, DC. February 2001
238. Non-alcoholic Steatohepatitis Update. Walter Reed Army Medical Center. Gastroenterology Grand Rounds. April 2001.
239. Clinical Aspects of Non-Alcoholic Fatty Liver Disease. Symposium on Obesity and Liver Disease. Digestive Disease Week. May 2001.
240. The Epidemiologic and Economic Impacts of Non-Alcoholic Fatty Liver Disease in the United States. American Association for the Study of Liver Disease Workshop. Digestive Disease Week. May 2001.
241. Non-alcoholic Steatohepatitis Oral Presentations: Co-Moderator. Digestive Disease Week. May 2001.
242. Non-alcoholic Steatohepatitis Update. Georgetown University. Washington, DC. June 6, 2001.
243. Update on Non-alcoholic Steatohepatitis: Maryland GI Society. October 2001.
244. Hepatitis C and Liver Transplantation. Transplant Grand Round. Inova Fairfax Hospital. 2001

245. Hepatitis C: An Update on New Therapies. Medical Grand Rounds. Shady Grove Hospital. January 2001.
246. Hepatitis C: New Therapies. Beachwood Marriott. Beachwood, OH. February 2001
247. An Update in HCV: New Therapies. Tyson's Corner, VA. March 2001.
248. HCV Update. Inova Fairfax Hospital. Trauma Grand Rounds. April 2001.
249. Achieving Optimum Outcomes: Customizing Treatment for Patients with HCV infection. Greenwich, CT. May 5, 2001.
250. American Liver Foundation Support Group. Update on HCV. Oakton, VA. May 6, 2001.
251. American Liver Foundation Support Group. Update on HCV. Woodbridge, VA. May 7, 2001.
252. Northern Virginia/ALF HCV Support Group: An Update on HCV. October 2001.
253. Ascites. Inova Fairfax Hospital. Housestaff Lecture. January 2001.
254. Fulminant Hepatic Failure. Inova Fairfax Hospital. House staff Lecture. January 2001.
255. Liver Disease in Women. Meet the Professor Session. American Association for the Study of Liver Disease Workshop. Digestive Disease Week. May 2001.
256. Associates Course: American Association for the Study of Liver Disease. October 2001.
257. Women's Health Issues 2001: Evaluation of Abnormal Liver Enzymes. November 2001.
258. Management of Variceal Bleeding: Critical Care Forum. Inova Fairfax Hospital. December 2001
259. Viral Hepatitis: University of Michigan. GI/Liver Wrap-Up Course. February 2002.
260. Current Treatment and Research Protocols in the Treatment of Hepatitis C: UNOS Region 2 Clinical Forum. Bethesda. March 2002.
261. Hepatitis C: An Updated for 2002. Medical Grand Rounds. Inova Fairfax Hospital. December 2002.
262. An Update on Non-alcoholic Steatohepatitis. Medical Grand Rounds. Inova Fairfax Hospital. January 2002.
263. Non-alcoholic Steatohepatitis and Hepatitis C: Cornell University. January 2002.
264. HCV & Steatosis: SHINE Investigator Meeting. February 2002.
265. An Update on Fatty Liver Disease: CMD Dinner Program. Cleveland, OH. April 2002.
266. Non-alcoholic Steatohepatitis: CME Dinner Program. Columbus, OH. April 2002.
267. Natural History of Non-alcoholic Steatohepatitis. Digestive Diseases Week. San Francisco, CA. May 2002.
268. Non-Alcoholic Fatty Liver Disease. Rochester. NY 2002.
269. Spectrum of Fatty Liver Disease. Non-alcoholic Steatohepatitis Non-Alcoholic Steatohepatitis. American Association for the Study of Liver Diseases. Single Topic Conference. September 2002.
270. Non-Alcoholic Steatohepatitis. Non-alcoholic Steatohepatitis Medical Grand Rounds. Arlington Hospital. October 2002.
271. Obesity-Related Fatty Liver. Meet the Experts Conference. Inova Fairfax Hospital. December 2002.
272. Non-Alcoholic Fatty Liver Disease. Pittsburgh Gastroenterologists. February 2003.
273. Spectrum of Non-Alcoholic Fatty Liver Disease. SHINE Investigator Meeting. Los Angeles, CA. February 2003.
274. Non-Alcoholic Steatohepatitis. Maryland GI Society. Bethesda, MD. March 2003.
275. Non-Alcoholic Steatohepatitis. Baltimore Gastroenterologists. Baltimore, MD. June 2003.
276. Extrahepatic Manifestation of HCV. Dermatology Section Meeting. Inova Fairfax Hospital. April 2003.
277. The Role of Adherence on the Efficacy of Antiviral Therapy for HCV. Santa Monica CA. December 2003.
278. Hepatitis B: To Treat or Not to Treat. ACG/Walter Reed Annual GI Course. Tyson's Corner, VA. March 2003.
279. Update on Hepatitis B, Medical Grand Rounds. Inova Fairfax Hospital. July 2003.
280. Role of Hematopoietic Growth Factors in Management of Ribavirin-Induced Anemia. Dallas TX. September 2003.
281. Epoetin Alfa and Darbepoetin Alfa for Management of Ribavirin-Induced Anemia. Miami, FL. November 2003.



282. Hematopoietic Growth Factors for Management of Ribavirin-Induced Anemia. New York, NY. December 2003.
283. New Data on Treatment for Hematologic Side Effects. Tarrytown, NY. June 2004.
284. Hepatitis B Update for Korean Physician Workshop. Tyson Corner, VA. 2004
285. Implication of Hepatitis B. McLean, VA. 2004.
286. Management of Hepatic Encephalopathy. Tyson's Corner, VA 2004
287. The Role of Growth Factors in the Management of Hepatitis C. Chicago IL. March 2004.
288. The Role of Growth Factors in the Management of Hepatitis C. South Beach FL. April 2004.
289. Effective Side Effect Management in Anti-HCV Therapy. New Orleans, LA. May 2004.
290. In Depth Side Effect Management Strategies for HCV Treatment. Miami FL. June 2004.
291. Management of Hepatitis C: 2004 Update. Guest Lecturer. Amgen, Inc. Thousand Oaks, CA.
292. HCV Therapy: Shortfalls in Management. La Jolla, CA. July 2004.
293. Maximizing HCV Therapy. Atlanta, GA. July 2004.
294. Maximizing HCV Therapy: In Depth Side Effect Management Strategies. Boston, MA. July 2004.
295. Maximizing HCV Therapy: Side Effect Management Strategies. Washington DC. July 2004.
296. Management of Hepatitis C Roundtable. Cleveland Clinic. 2004.
297. Helping Patients Stay the Course on Treatment for Hepatitis C. Bethesda, MD. 2004.
298. Striving to Achieve Improved Outcomes: An Integrated Approach to HCV Treatment. Boston, MA. 2004.
299. Anemia Management for Hepatitis C Therapy. Univ. of Michigan Program. Ann Arbor, MI. 2004.
300. Issues in the Management of Adverse Effect of HCV Therapy. Indian Association for Study of Liver Disease, New Delhi, India. 2004.
301. The Spectrum of Non-Alcoholic Fatty Liver Disease. Medical Grand Round. The George Washington University. April 2004.
302. Non-Alcoholic Fatty Liver Disease and the Epidemic of Obesity. Transplant Grand Round. Inova Fairfax Round. June 2004.
303. Non-Alcoholic Fatty Liver Disease. Axcn National Meeting. Washington DC. July 2004.
304. Non-Alcoholic Fatty Liver Disease: Management American Association for Study of Liver Diseases. Post Graduate Course. Boston, MA. 2004.
305. Non-Alcoholic Fatty Liver Disease: What to Do with Your Fatty Liver Patients. American College of Gastroenterology. Orlando, FL. 2004.
306. Management of Non-Alcoholic Fatty Liver Disease: Medical Grand Rounds at Salem Veterans Affairs, Roanok, VA, 2004.
307. Non-Alcoholic Fatty Liver Disease. Rochester, NY. 2004.
308. Interaction between Non-alcoholic Fatty Liver Disease and Hepatitis C. Asian Pacific Association for the Study of the Liver. New Delhi, India. 2004.
309. Insulin Resistance and Non-alcoholic Fatty Liver Disease. Asian Pacific Association for the Study of the Liver. New Delhi, India. 2004.
310. Quality of Life in Chronic Liver Disease: The Impact of Treatment and Liver Transplantation. The 8<sup>th</sup> Annual Virginia Liver Symposium. VCU, Richmond, VA. March 2004.
311. Makes a Difference: Improving Outcomes and Quality of Life in Patients With Hepatitis C. Orlando, FL. 2004.
312. How to Assess Evidence? The Evidence Based Approach. 6<sup>th</sup> World Congress of International Hepatobiliary Association. Washington D.C. June 2004.
313. The Spectrum of Non-alcoholic Fatty Liver Disease. Post Graduate Institute, Chandigarh, India, 2004.
314. Health-related Quality of Life and Liver Transplantation. American Transplant Congress Meeting, Seattle, WA. 2005
315. Health-related Quality of Life in Hepatitis C. Indenix Presentation. Cambridge, MA. 2005
316. Obesity-related Non-alcoholic Fatty Liver Disease. Thomas Jefferson University, GI Grand Round. 2005
317. Non-alcoholic Steatohepatitis. Washington VA Hospital, GI Conference, 2005

318. Management of Non-alcoholic Fatty Liver Diseases. Walter Reed and American College of Gastroenterology Bi-annual GI course, McLean, VA. 2005.
319. Epidemiology of Non-alcoholic Fatty Liver Disease in Bariatric Surgery Patients. Digestive Disease Week, Chicago, IL. 2005.
320. Adipokines in Non-alcoholic Fatty Liver Diseases. 7th International Conference on Cytokines and Chemokines. Montreal, CA. 2005.
321. Translational Research, Mid-Atlantic Biotechnology Conference, Washington D.C. Translational Research 2005.
322. Natural History of Non-alcoholic Steatohepatitis. American College of Gastroenterology. Honolulu, HI. 2005.
323. Non-alcoholic Steatohepatitis. American College of Physicians Meeting Washington DC 2005
324. Non-alcoholic Fatty Liver Disease Grand Round, University of California, Sacramento, CA. 2005.
325. Epidemiology and Natural History of Non-alcoholic Steatohepatitis. University of Pittsburgh GI/Hepatology Course, Pittsburgh, PA. 2005.
326. Obesity and Liver Disease 16<sup>th</sup> Annual AMOAA Meeting, Reston, VA. 2005.
327. Hepatitis C and its Implications for Rheumatologists. American College of Rheumatology Meeting, Santa Barbara, CA. 2005.
328. An Update on hepatitis C and HIV/HCV Co-infection. Tyson's Corner, VA. 2005
329. Emerging Data in the Management of Hepatitis C. Woodbridge, VA. 2005.
330. Hepatitis C. Scripps Consortium Seminar, Washington D.C. 2005.
331. Hepatitis B: Fighting the Invisible Enemy. Seven Corners, VA. 2005.
332. Case Presentations by Staff. Visiting Professor, Post Graduate Institutes, Chandigarh, India. 2004.
333. Hepatitis B Update. Taiwanese Medical Association, Fairfax, VA. 2005.
334. Hepatitis B: Management of Difficult Cases. Fairfax, VA. 2005.
335. Integrating Clinical Research into a Business Plan of Hepatology Practice. American Association for the Study of Liver Disease Annual Meeting, San Francisco, CA. 2005.
336. Chronic Hepatitis B Treatment. Fairfax, VA. 2005.
337. American Liver Foundation's Post-AASLD Review (Chair), Alexandria, VA. 2005.
338. Hepatitis C Oral Presentations (Co-chair), Digestive Disease Week, Los Angeles CA 2006
339. HCV, Steatosis and Metabolic Syndrome. Postgraduate Institute of Medicine, Scottsdale, AZ. 2006.
340. Epidemiology, Natural History and Progression of Non-alcoholic Fatty Liver Disease. Non-alcoholic Steatohepatitis Expert Panel Meeting. Vienna, Austria. 2006
341. Translational Research Using Genomics and Proteomics to Study Human Diseases. Inaugural Speaker, The President's Series, Inova Health System 2006.
342. Non-alcoholic Steatohepatitis, Basic Science Oral Presentation (Co-Chair). American Association for the Study of Liver Disease, Boston, MA. 2006
343. Proteomics. Early Morning Session (Faculty). American Association for the Study of Liver Disease, Boston, MA. 2006.
344. The Role of Hepatic Steatosis in other Liver Diseases. Post graduate course of American Association for the Study of Liver Disease. Boston, MA. 2007.
345. From Bench to Bedside in Liver Disease. American College of Physicians, Virginia Chapter, Tyson's Corner, VA. 2007
346. Metabolic Syndrome and Liver Disease: Pre & Post Liver Transplantation. American Transplant Congress. San Francisco, CA. 2007.
347. Hepatic Steatosis as a Risk Factor in the Progression of Viral Hepatitis. Canadian Laboratory Medicine Congress. Toronto, Canada. 2007.
348. Non-alcoholic Fatty Liver Disease. Annual Hepatology Roundup. Baylor University Medical Center. Houston, Texas. 2007.
349. Fatty Liver Disease. American Liver Foundation. Chicago, Il. 2007.
350. Proteomics. Meet the Professor Session. American Association for the Study of Liver Disease. Boston, MA, 2007.

351. Epidemiology of Non-Alcoholic Fatty Liver Disease. Early Breakfast Session, American Association for the Study of Liver Diseases, Boston, MA, 2007.
352. The impact of Steatosis, Insulin Resistance and Metabolic Syndrome on HCV Treatment. Hepatitis C Metabolic Advisory Board. New York, December 2007
353. The Evaluation and Management of Non-alcoholic Fatty Liver Disease. Medical Grand Round, Inova Fairfax Hospital, December 2007
354. Health Related Quality of Life in Hepatitis C: Expert Panel Meeting on Extra Hepatic Burden of HCV Infection. New York, NY, December 2007
355. Quality of Life Assessment in HCV, Merck Headquarters. December 2007
356. Managing Hepatitis C. Hot Topic 2007 (CME Program), Norfolk, VA. 2007.
357. Managing Hepatitis C. Hot Topic 2007 (CME Program), Tyson's Corner, VA. 2007
358. Case challenges in HCV: Overcoming Boundaries to Hepatitis C Treatment (CME Program). Miami, FL. 2007
359. Case challenges in HCV: Overcoming Boundaries to Hepatitis C Treatment (CME Program). Chicago, IL. 2007
360. Case challenges in HCV: Overcoming Boundaries to Hepatitis C Treatment (CME Program). Washington DC. 2007
361. Case challenges in HCV: Overcoming Boundaries to Hepatitis C Treatment (CME Program). New York, New York. 2007
362. Autoimmune and Metabolic Liver Disease. Hepatology SEP Course. Digestive Disease Week, Washington, D.C. 2007.
363. Research Training Day for Inova Health System: Course Director December 2007
364. Hepatitis B Update. Middlesex Hospital Symposium. Middletown, Connecticut, May 2008
365. Why Is Standard of Care for HCV Treatment Falling Short? American Association for the Study of Liver Disease, Projects in Knowledge CME Program, San Francisco, CA 2008
366. An Update on Chronic Hepatitis C. Second Annual Hepatology Congress. East Palo Alto, CA. December 2008
367. Non-alcoholic Steatohepatitis Advisory Board, Chair. Boston, MA February 2008
368. Metabolic Syndrome. Chronic Liver Disease Foundation, CME Program, Las Vegas, NV. March 2008
369. Non-alcoholic Fatty Liver Disease: From Clinical Management to Liver Transplantation"? Piedmont Hospital's Updates on Liver and Kidney Disease and Transplantation Course. Atlanta, GA, April 2008
370. Non-alcoholic Steatohepatitis and Fatty Liver. Scripps Clinic's 23<sup>rd</sup> Annual New Treatments in Chronic Liver Disease, La Jolla, CA, April 2008.
371. Epidemiology of NAFLD. NAFLD Advisory Board, Milan, Italy, April 2008
372. Drugs should be used for Non-alcoholic Steatohepatitis. AASLD Clinical Symposium on "Drug Therapy for Non-alcoholic Fatty Liver Disease". Digestive Disease Week 2008, San Diego, California, May 2008
373. State-of-the-Art lecture for Digestive Disease Week Annual Meeting 2008. "Non-alcoholic Fatty Liver Disease - Does it need to be Treated?" San Diego California, May 2008.
374. Non-alcoholic Fatty Liver Disease. Middlesex Hospital Symposium. Middletown, Connecticut, May 2008
375. Dermatology and Metabolic Syndrome. Multidisciplinary-Multispecialty Round Table of Experts During International Psoriasis Council Meeting, Dallas, Texas September 2008
376. Fatty Liver Disease. "Sixth Annual Duke Liver Disease Update and Symposium", Durham, North Carolina, September 2008
377. Recent Advances and Emerging Therapies in Chronic Liver Disease: Fatty Liver Disease. "9<sup>th</sup> Annual International Hot Topics in Liver Conference". Saint Luke's Hospital. Houston, Texas. October 2008
378. Current Treatment of Non-alcoholic Fatty Liver Disease. Symposium on NAFLD. Medica Sur Clinic and Foundation. Mexico City, Mexico. October 2008
379. Prognosis and Treatment of NASH in the Liver and Beyond: Lifestyle or Pharmacology? Post-graduate Course, Meet-the Professor Session, American Association for the Study of Liver Disease. San Francisco, California 2008

380. Obesity-related Liver Disease: Non-alcoholic Fatty Liver Disease (Grand Round): Albert Einstein College of Medicine-Montefiore Medical Center. New York, NY. November 2008
381. Quality of Life in Chronic Liver Disease, Chairperson for the Session. UEGW/WCOG GASTRO 2009, London, United Kingdom, November 2009
382. Non-alcoholic Fatty Liver Research. Mount Sinai School of Medicine Liver Research Seminar. January 2009
383. Natural history and clinical evaluation of NAFLD and NASH. “8<sup>th</sup> International Meeting on Therapy in Liver Diseases”, Barcelona, Spain September 2009
384. Update in the Treatment for Non-alcoholic Fatty Liver Disease (NAFLD). General Hepatology Update Course, American Association for the Study of Liver Disease, Boston, MA, November 2009
385. Diagnosing NAFLD/NASH: Who to Screen and How to Confirm the Diagnosis? UEGW/WCOG GASTRO 2009, London, United Kingdom, November 2009
386. Non-alcoholic Fatty Liver Disease. Carolinas Medical Center-CME Liver Course, Charlotte, NC, December 2009.
387. Hepatitis B and Hepatitis C Content Development Meeting. Chronic Liver Disease Foundation, Dallas, TX 2009
388. The Past, Present, and Future of Hepatitis C: A Discussion with the Experts. AGA Institute and Medscape, Chicago 2009
389. Hepatitis C and Metabolic Syndrome. CMETV, Chronic Liver Disease Foundation, Chicago 2009
390. STAT-C Therapy for Chronic Hepatitis C Round Table (Chair), New York, NY November 2009
391. Hepatic Encephalopathy CME Meeting. Chronic Liver Disease Foundation Dallas 2009
392. Management of Overt Hepatic Encephalopathy CME Teleconference, Chronic Liver Disease Foundation 2009.
393. Hepatic Encephalopathy Content Development Meeting. Chronic Liver Disease Foundation, Chicago, IL 2009.
394. Hepatic Encephalopathy-CME, Chronic Liver Disease Foundation, Las Vegas, NV January 2010
395. Hepatocellular Carcinoma. CLDF CME Program. New Orleans, LA 2010
396. 2010 National Hepatitis B and C Training Program and Treatment Update. Crystal City, VA 2010
397. The Clinical Implications of Managing Cirrhotics. Chronic Liver Disease Foundation, Tysons Corner, VA 2010
398. The Clinical Implications of Managing Cirrhotics. Chronic Liver Disease Foundation, McLean VA 2010
399. Hepatic Encephalopathy Teleweb Presentation. Chronic Liver Disease Foundation 2010
400. Management of Nonresponders to Previous HCV Therapy: What Lessons Have We Learned? Medscape-AGA CME Program. New Orleans, LA 2010
401. NAFLD and NASH. Scripps Clinic 25<sup>th</sup> Annual Treatment in Chronic Liver Disease March 2010
402. Controversy: Results from PIVENS Trial (IR is not Important). Scripps Clinic 25<sup>th</sup> Annual Treatment in Chronic Liver Disease, March 2010
403. NASH: Noninvasive Markers – Emerging Alternatives to Biopsy: Measuring steatosis, fibrosis and cell death. Symposium: What’s new and Hot in Clinical Hepatology. Digestive Disease Week 2010, New Orleans, LA, May 2010
404. Non-Alcoholic Fatty Liver Disease: When should I biopsy? How should I treat? American College of Gastroenterology Annual Meeting, Post Graduate Course 2010, San Antonio, Texas, October 2010.
405. “Non-alcoholic Fatty Liver Disease: Does Differentiating NAFL from NASH Really Matter When There is no Specific Treatment?” ACG Annual Meeting. San Antonio, Texas 2010
406. Obesity-related Non-alcoholic Fatty Liver Disease. Medical Grand Round, Inova Fairfax Hospital, November 2010
407. Non-alcoholic Fatty Liver Disease: Non-invasive Fibrosis Biomarkers and Treatment Strategies. State of the Art Lecture, “The 3<sup>rd</sup> Hepatology and Gastroenterology Post Graduate Course and the 12<sup>th</sup> International Workshop on Therapeutic Endoscopy”, Cairo, Egypt, December 2010

408. Long Term Mortality, Morbidity and Hepatocellular Carcinoma in patients with NASH and Related Cirrhosis. State of the Art Lecture, “The 3<sup>rd</sup> Hepatology and Gastroenterology Post Graduate Course and the 12<sup>th</sup> International Workshop on Therapeutic Endoscopy”, Cairo, Egypt, December 2010
409. Treatment advances in Chronic Hepatitis C. Medscape Gastroenterology. Boston, MA 2010
410. Medscape Gastroenterology. New Treatment for HCV. Chicago, IL May 2011
411. National Hepatitis B and C Education Scripps Clinic CME Program. Washington DC, July 2011
412. Special Population and Treatment Update for Hepatitis C. University of Maryland GI Grand Round. Dec 2011
413. “Quality of Life in Cirrhosis”. Post Graduate Course. American Association for the Study of Liver Disease Annual Meeting, San Francisco, CA 2011
414. Treatment of metabolic syndrome and liver fibrosis. The Fourth Scientific Meeting on Liver Fibrosis, May, 2011, Bordeaux, France.
415. Will bariatric surgery change the natural history of NASH? Bariatric Surgery, Obesity and NAFLD Session. Digestive Disease Week, Chicago IL, May 7, 2011
416. The Impact of Alcoholic and Non-alcoholic Fatty Liver Disease on Hepatitis C. 2011 Pittsburgh Liver Update Symposium, University of Pittsburgh, June 2011
417. Advanced Liver Disease. Chronic Liver Disease Foundation CME Program, September 2011
418. Role of Gut Bacteria in GI and Liver Diseases. Chicago, IL, May 2011
419. Chronic Hepatitis B-CHiP Program, McLean VA, January 2012
420. Current Breakthroughs in the Management of Chronic Hepatitis C. CLDF, Falls Church VA. Jan 2012
421. Hepatitis B and associated liver cancer and cirrhosis. CHIP Program, Falls Church, VA, Jan 2012
422. New Management Paradigm for Chronic Hepatitis C. MGR, IFH, Feb 2012
423. National Hepatitis B & C Training Program and Treatment Update 2012, Washington DC, June 2012.
424. Non-alcoholic Steatohepatitis. Second Annual Hepatology Update, SUNY, NYC, June 2012
425. ACG Hepatitis School: HCV Epidemiology and Cohort Screening Guidelines. Washington, D.C., April 2013.
426. University of Virginia Annual Hepatology and Transplant Conference, Charlottesville, VA, May 2013.
427. Chronic Liver Disease Foundation Evidence Based Analysis Workshop, Washington, D.C., May 2013.
428. Diabetes: Unlocking the Mysteries 3<sup>rd</sup> Annual Symposium, Winthrop University Hospital, Garden City, NY.
429. Digestive Disease Week 2013 Session, Orlando, FL, May 2013.
430. AP&T Editorial Board Meeting, Orlando, FL, May 2013.
431. 9<sup>th</sup> Biennial Meeting of Turkish Association for the Study of Liver Disease, Istanbul, Turkey, May 2013.
432. Hepatitis C Treater Advisory Board Meeting, Dallas, TX, June 2013.
433. Chronic Liver Disease Foundation HCV Alliance Program, Falls Church, VA, June 2013.
434. Scripps National Hepatitis B & C Training Program and Treatment Update, Washington, D.C., June 2013.
435. NASH and Autoimmune Overlap. ACG 2013, San Diego CA
436. Focus Med Gala CME: NASH What to do in 2013, Austin, TX, June 2013
437. Florida Liver Forum: Updates in Hepatology, Clearwater, FL, June 2013.
438. Health Economics and HCV Medical Affairs Lecture, Foster City, CA, August 2013.
439. The Impact of Obesity. Atlantic Monthly Panelist. 2013, Middleberg, VA
440. Clinical and Epidemiologic Impact of HCV. Fairfax VA 2013
441. Scripps 29<sup>th</sup> Annual New Treatments in Chronic Liver Disease. Scripps Clinic Hepatology Course, La Jolla CA March 2014
442. NASH is not a behavioral disease. Scripps Clinic Hepatology Course, La Jolla CA March 2014
443. Focus on Managed Care, Cleveland Clinic Cleveland OH June 2014.
444. Intercept NASH and Lipids. Atlanta, Georgia, March 2014
445. Non-alcoholic Fatty Liver Disease and NASH. Scripps 29 Annual Treatment in Chronic Liver Diseases. San Diego, CA March 2014.

446. Debate: Hepatitis C Drugs Cost Too Much! Scripps 29 Annual Treatments in Chronic Liver Diseases. San Diego, CA March 2014.
447. Managed Markets HCV. Chicago, IL May 2014.
448. National Hepatitis Expert Treater. Dallas, TX May 2014
449. Health Related Quality of Live in CHC and Economic/non-economic Cost of CHCV. Pittsburgh, PA January 2015.
450. Economic Burden of CH-C: Cost-Effectiveness and Work Productivity Models. Paris, France. April 2015.
451. Neuro cognitive impairment of HCV infection. Paris, France. April 2015.
452. Extra Hepatic Manifestations. Vienna, Austria. April 2015
453. PRO Economic Burden of CH-C. Paris, France. April 2015.
454. Advancements in HCV. Tysons Corner, VA. October 2015.
455. Hepatitis B and C Training Program. Washington, D.C. October 2105.
456. Addressing the Unmet Need in NASH: Focus on New Therapeutic Targets. New York, NY July 2014.
457. Increasing association of non-alcoholic fatty liver disease (NAFLD) with hepatocellular carcinoma in the United States: data from surveillance, epidemiology and end results (seer)-medicare registries (2004-2009). Vienna, Austria. April 2015.
458. Increasing association of non-alcoholic fatty liver disease (NAFLD) with hepatocellular carcinoma in the United States: data from surveillance, epidemiology and end results (seer)-medicare registries (2004-2009). Vienna, Austria. April 2015.
459. Management of NASH. Vienna, Austria. April 2015.
460. Management of Non-Alcoholic Fatty Liver Disease. Rutgers, Philadelphia, PA. June 13, 2015
461. Round table: screening of patients. Paris NASH Symposium, Paris, France. June 25, 2015.
462. Farnesoid X Receptor Agonists in NASH: Clinical Data as an Input to the Session on NAFLD, NASH, and NASH Cirrhosis. Frankfurt, Germany. September 2015.
463. Dysbiosis, Obesity, and NAFLD:What every gastroenterologist needs to know. Honolulu, HI. October 2015.
464. Viral Hepatitis Grand Rounds – “Health Related Quality Of Life in CHCV and Economic and Non-Economic Costs of CHCV. University of Pennsylvania, Pittsburgh, PA. January 2015.
465. Translating efficacy to effectiveness; the importance of patient related outcomes. Melbourne, Australia, March 3, 2015.
466. Translating efficacy to effectiveness; the importance of patient related outcomes. Auckland, New Zealand, March 9, 2015.
467. Patient Reported Outcomes in Patient with CH-C Treated with SOF-based Regimens. Paris, France. April 2015
468. Patient-reported outcomes: Overview of SOF-based regimens' clinical trail. Milan, Italy 2015
469. Patien Reported Outcomes. Salzburg, Austria, June 17, 2015.
470. The Role of Patient Reported Outcomes. Athens, Greece, June 20, 2015.
471. Patient Reported Outcomes. Barcelona, Spain, June 22, 2015
472. Patient Reported Outcomes. Lisbon, Portugal, June 24, 2015.
473. Advances in GI Endoscopy/Hepatology and Liver Transplantation. McLean, VA January 2015.
474. Patient-reported outcomes, Cost-effectiveness and Extra Hepatic Manifestations of HCV. Milan, Italy. April 2015
475. The importance of health economics and outcomes research and role in access and treatments in HCV. London, England. April 2015
476. Patient Reported Outcomes in HCV. London, England. April 2015
477. Patient Reported Outcomes in HCV. Vienna, Austria. April 2015
478. NASH Disease State/Pathophysiology. New York, NY. December 2015
479. Quality of Life and HCV. Paris, France. January 2016.
480. DAAs in HCV Patients with Decompensated Cirrhosis: Who, When, Why and What? Riyadh, Saudi Arabia. January 2016.

481. INF-free DAA Treatment for HCV Genotypes 1 & 4: Should this be the Only Choice? Riyadh, Saudi Arabia. January 2016.
482. Difficult to treat hepatitis C patients. Philadelphia, PA. April 2016
483. Long-term outcomes in liver transplant recipients transplanted from HCV-positive donors. Barcelona, Spain. April 2016.
484. HCV Advanced. Mclean, VA. December 2016.
485. How SVR impacts hepatic and extrahepatic disease outcomes? EASL and ASSLD Joint Meeting. Paris, France, September 2016.
486. Value-Based Medicine in Hepatology Course (Chair and Speaker), AASLD, Boston MA, Nov 2016
487. Patient Center Research in Hepatology (Course Director and Speaker) AASLD, Boston 2016
488. NASH: What Is It And How Do We Treat And Monitor. Digestive Disease Week. San Francisco, CA. March 2016.
489. Current and Future Treatment Options For PBC, NASH, and Hepatic Encephalopathy. Falls Church, VA. March 2016
490. Fatty Liver Disease. Rutgers Digestive Disease Conference. Philadelphia, PA. April 2016.
491. State of the Art Lecture Iv Fattly Liver Disease-A Global Disease: Progress In Pathogenesis And Management. Houston, TX. September 2016.
492. The Clinical Burden and Economic Impact of NASH. Frankfurt, Germany. September 2016.
493. Management of NAFLD/NASH Diagnositic Modalities and Future Treatment Options. Vienna, Austria. October 2016.
494. Sofosbuvir/Valpatasvir- Will it make a difference, ISGCON meeting New Dehli, India. December 2016.
495. Viral Hepatitis and Complication of Cirrhosis: Therapy Decision Making. Dallas, TX. April 2016
496. Management of NAFLD/NASH diagnositic modalities and future treatment options. Dallas, TX. April 2016
497. Overview of health economics and outcomes research (HEOR) and patient-reported outcomes (PROs) data regarding HCV. Barcelona, Spain. April 2016
498. Value of Health Economics in the U.S. Newark, NJ. April 2016
499. Hepatitis B vaccination in diabetic and liver disease patients. Barcelona, Spain. April 2016.
500. Geroge Washington University Medical Grand Rounds: Quality of Life in Liver Disease. Washington, D.C. May 2016
501. Current and Future Treatment Options for PBC, NASH, and Hepatic Encephalopathy. Fairfax, VA. May 2016
502. The face of the PBC patient. Are you missing the diagnosis? San Diego, CA. May 2016
503. Management of NAFLD/NASH: Diagnositic Modalites and Future Treatment Options. Cleveland, OH. June 2016.
504. Current and Future Treatment Options for PBC, NASH and Hepatic Encephalopathy. McLean, VA. August 2016.
505. Fatty Liver When To Biopsy and How To Manage. Mercey Medical Center. Baltimore, MD. September 2016.
506. NASH Global Clinical Advisory Board. Chicago, IL. September 2016.
507. Value-Based Medicine in Hepatology (Chair and Course Director). Boston, MA. November 2016.
508. New Horizon in Pharmacotherapy of NAFLD (State of the Art Lecture), ISGCON meeting New Dehli, India, December 2017
509. Incidentally detected fatty liver, ISGCON meeting New Dehli, India, December 2017
510. Fatty Liver Disease.... We Are Progressing. Philadelphia, PA March 2017.
511. 2017 AASLD Emerging Trends Conference: Emerging Trends in Non-alcoholic Fatty Liver Disease Two Day Signe Topic Conference), Washington DC, Course Director, Session Chair and Speaker. April 2016
512. Global Epidemic of NAFLD and NASH and their Clinical Implications. Amman, Jordan. April 2017.
513. 2017 Update on Treatment strategies for NASH. Amman, Jordan. April 2017.
514. NAFLD 2017 Update. Antalya, Turkey. May 2017.

515. NAFLD 2017 Update. Alberta, Canada. May 2017
516. Economic Burden and Treatment Strategies of NASH. Dubai, UAE. October 2017.
517. Improvement of Patients' Quality of Life and Other Patient-Reported Outcomes with Daa Therapy. Dubai, UAE. October 2017.
518. Enhanced Understanding of the Progression From NAFLD to NASH and Beyond. American Association for the Study of Liver Diseases. October 2017.
519. HCV Treatment Update. McLean, VA. January 2017.
520. International Hepatitis C Exchange. Shenghai, China. February 2017.
521. One Drug For All: Are We there For Hepatitis C? Manila, Philippines. March 2017
522. Generic Patient-reported Outcomes Instruments vs Disease-Oriented Ones: Which Pro and Contra in Systemic Diseases like HCV and HIV? Rome, Italy. March 2017.
523. Current State of HCV in the U.S. Havana, Cuba. April 2017.
524. Hepatitis C Treatment: Do we Have Pangenotypic Regimens for All Patients? Amman, Jordan. April 2017.
525. Hepatitis C: Do we really have difficult to treat patients? Philadelphia, PA. March 2017
526. Emerging Trends in Hcv: Clinical, Epidemiologic, Patient-Reported And Economic Burden of NAFLD. Washington, D.C. March 2017.
527. Best Practices towards Creening, Linkage to Care and HCV Elimination. Dubai, UAE. October 2017.
528. Refining Treatment and Outcomes in HCV Therapy. American Association for the Study of Liver Diseases. Washington, D.C. October 2017.
529. Fatty liver we are progressing. Philadelphia, PA. March 2017.
530. Improvement of Hepatic Fibrosis in Patients with NASH Treated with Selonsertib is Associated with Improvement of PROs. European Association for the Study of Liver Disease. Amsterdam, Netherland. April 2017.
531. Real world database analysis for PBC. New York, NY. May 2017.
532. State of the Art Lecture: NASH Does My Liver Look Fat? Digestive Disease Week.Chicago, IL. May 2017.
533. Delivering care and Determining Cost-Effectiveness. American Association for the Study of Liver Disease. Washington, D.C. October 2017.
534. Global Forum NAFLD Burden of Liver Disease: Epidemiology and Public Health Control Measures. American Association for the Study of Liver Disease. Washington, D.C. October 2017.
535. Advances in non-alcoholic fatty liver disease (NAFLD) and non-alcoholic steatohepatitis (NASH). The Gastrointestinal and Liver Association of the Americas (GALA) Washington DC, December 2017
536. Meeting Co-Chair. The Gastrointestinal and Liver Association of the Americas (GALA) Washington DC, December 2017
537. AASLD Colloquium Meeting Introducing NASH-related Health Measures in Population Health Studies. Munich, Washington, D.C. January 2018.
538. The Comprehensive Impact of HBV and HCV Sponsored By Hep B & C Public Policy Association. Munich, Germany. January 2018
539. International Liver Transplantation Society Meeting-Epidemiology and Prevention of NAFLD. Venice, Italy. February 2018.
540. 2018 American College of Gastroenterology Regional Post-graduate Course- Evolving Treatment of NASH. New Orleans, LA. March 2018
541. The Epidemiology of NAFLD: Western & Asian Perspectives. Paris, France. April 2018
542. NAFLD: The 21<sup>st</sup> Century Epidemic Disease. American College of Physician Annual Meeting, New Orleans April 2018
543. Natural History of NAFLD. AASLD Clinical Hepatology Update Meeting. Austin Texas. May 2018
544. Patients with Radiologic Evidence of Fatty Liver Should Not Undergo Liver Biopsy. Digestive Diseases Week, Washington DC 2018
545. Patient Reported Outcomes in Hepatitis C. 2nd European Policy Summit on HBV and HCV. Brussels, Belgium. June 2018



546. Non-alcoholic Steatohepatitis. XIV International Symposium on Viral Hepatitis and Liver Disease, Barcelona, Spain June 2018
547. AASLD and EASL Joint Endpoint Conference in NASH. Session Chair. June 2018
548. Epidemic of NAFLD in the US and EU: Is Disease Related Mortality and Morbidity Over Estimated. 4<sup>th</sup> Paris NASH Meeting, Paris, France July 2018
549. Falk Institute Symposium on Diabetes and Liver: East Meet the West. NAFLD Epidemiology. Kyoto, Japan. September 2018
550. Patient Reported Outcomes in NASH. EASL NAFLD Meeting. Geneva, Switzerland. September 2018
551. Advances in the Management of Cirrhosis for AASLD. San Francisco, CA November 2018
552. NASH: The Disease and its Management. 7<sup>th</sup> Kolkata Liver Meeting, Kolkata, India, December 2018