

CURRICULUM VITAE
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EDUCATION AND TRAINING

- 1984 – 1986 **Fellowship in Gastroenterology and Hepatology** *Washington, D.C.*
Veterans Administration Medical Center
Director: Leonard B. Seef, M.D.
- 1981-1984 **Internship and Residency Program** *Washington, D.C.*
George Washington University Hospital and School of Medicine
Director: Gorge G. Rios, M.D.
- 1977-1981 **Doctor of Medicine** *Newark, NJ*
Robert Wood Johnson School of Medicine, New Jersey College of
Medicine and Dentistry
- 1973-1977 **Bachelor of Arts with Distinction** *Boulder, CO*
University of Colorado
Molecular, Cellular, Developmental Biology

CURRENT STATUS

- 2010-Present **Founder and President**, Investigative Clinical Research, *Annapolis, MD*
- 2009-Present **Member**, IRB Company
- 2007-Present **Aviation Medical Examiner**, FAA
- 2006-Present **Special Government Employee and Consultant**, Gastrointestinal Drugs
Advisory Committee
- 2006-Present **Fellow**, American Gastroenterology Association
- 1995-Present **Fellow**, American College of Gastroenterology
- 1994-Present **Staff Gastroenterologist**, Baltimore Washington Medical Center
- 1993-Present **Founder and President**, Maryland Diagnostic & Therapeutic Endo
Center (MDTEC), *Annapolis, MD*
- 1990-Present **Principal Physician**, Digestive Disorders Associates, *Annapolis, MD*
- 1990-Present **Staff Gastroenterologist**, Anne Arundel Medical Center, *Annapolis, MD*
- 1986-Present **Assistant Professor of Medicine**, Uniformed Services of Health Science,
Bethesda, MD

CURRENT LICENSURE

Maryland license number D0034426, September 1986

BOARDS CERTIFICATION

1987 American Board of Internal Medicine, subspecialty of Gastroenterology
1984 American Board of Internal Medicine

PREVIOUS PROFESSIONAL POSITIONS

2006-2009 **Member**, Gastrointestinal Drugs Advisory Committee of the FDA
1988-2007 **Member**, American Gastroenterology Association
1996-2007 **Vice President and Medical Director**, AmeriTrial OTC Research Inc.
2003-2006 **Acting Medical Director**, First Circle Medical
2000-2004 **Member**, Board of Trustees, Anne Arundel Medical Center
2002-2004 **Member**, FDA Gastrointestinal and Urologic Device Panel
2000-2002 **President**, Medical Staff of Anne Arundel Medical Center
1999-2001 **President**, Medical Board Executive Committee, AAMC, *Annapolis, MD*
1998-2000 **Vice President**, Medical Board Executive Committee, Anne Arundel Medical Center *Annapolis, MD*
1998-2000 **Vice President**, Anne Arundel County Medical Society
1997-1999 **Secretary/Treasurer**, Medical Board Executive Committee, AAMC
1997-1998 **Secretary**, Anne Arundel County Medical Society
1995-1998 **President**, Maryland Ambulatory Surgery Association
1995-1999 **Chairman**, Anne Arundel Medical Center Institutional Review Board
1988-1995 **Member**, American College of Gastroenterology
1994-1995 **Member at Large**, Medical Executive Board, AAMC, *Annapolis, MD*
1990-1992 **Board Member**, Anne Arundel Medical Center, *Annapolis, MD*
1990-1992 **President**, Medical Staff, Anne Arundel Medical Center, *Annapolis, MD*
1989-1990 **IRB Chair**, Anne Arundel Medical Center, *Annapolis, MD*
1986-1990 **Staff Gastroenterologist**, Malcolm Grow USAF Medical Center, Andrews Air Force Base, *Largo, MD*

AWARDS

2009 **US FDA Advisory Committee Service Award**
1992 **Meritorious Service Medal USAF**
1992 **AMA Physicians Recognition Award**

CONSULTING CLIENTS (Partial List)

Pharmaceutical Corporations

- Proctor and Gamble Pharmaceutical
- Given Imaging
- Anesta Corporation
- McNeil Pharmaceutical
- Merck and Co. Inc.
- Roche Pharmaceutical
- Sucampo
- Allergan
- Abbott (Abbvie) Pharmacheticals
- Zx Pharmaceuticals
- Eli Lilly
- Vertice Pharmaceuticals
- Ferring Pharmaceuticals
- Otsuka America Pharmaceuticals
- Knsyl Pharmaceuticals

Device Manufacturers

- Proteus Biomedical
- Ethicon Endosurgical
- Medigus
- Betastim Ltd. Life Sciences
- GI View Ltd.
- EVASC Medical Systems
- Precision Endoscopic Therapeutics

Legal Firms

- Baker, Donelson, Bearman, Caldwell, & Berkowitz, PC, *Jackson, MS*
- Nutter, McClennen, & Fish, LLP, *Boston, MA*
- Lisa S. Levine, P.A., *Weston, FL*
- Frommer Lawrence & Huang, LLP, *New York, NY*
- Dickstein Shapiro, *New York, NY*
- Hogan & Harston, *Washington, D.C.*
- Keating Jones Hughes, PA, *Portland, OR*
- Latham Watkins, LLP, *Washington D.C. & San Francisco, CA*

PERSONAL DATA

Born: December 30, 1955, Ft. Meade, Maryland
Children: Lauren J. Epstein, October 17, 1986
Stephen D. Epstein, October 1, 1989
Rachelle A. Epstein, August, 9, 1991
Hobbies: Water skiing, skiing, aviation

PUBLICATIONS

1. Cash, B.D., Moncrief, M.B.C., **Epstein, M.S.** *et al.* Patient experience with NER1006 as a bowel preparation for colonoscopy: a prospective, multicenter US survey. *BMC Gastroenterol* **21**, 70 (2021).
2. **Epstein, M.**, Johnson, D., Hawes, R., Schmulewitz, N., Vanagunas, A., Gossen, R., Eaton, S., Robieson, W., Dubow, J., Chatamra, K., & Benesh, J. Gastrointestinal safety of levodopa-carbidopa intestinal gel system in advanced Parkinson's Disease. *Movement Disorders*. (in press)
3. Cash, B. D., **Epstein, M. S.**, & Shah, S. M. (2016). A novel delivery system of peppermint oil is an effective therapy for irritable bowel syndrome symptoms. *Digestive Diseases and Sciences*, *61*(2), 560-571.
4. Cash, B. D., **Epstein, M. S.**, & Shah, S. M. (2016). Patient Satisfaction with IBS Symptom Relief Using a Novel Peppermint Oil Delivery System in a Randomized Clinical Trial and in the General Population. *International Journal of Digestive Diseases*, *2*(2), 227.
5. **Epstein, M.**, Johnson, D. A., Hawes, R., Schmulewitz, N., Vanagunas, A. D., Gossen, E. R., Robieson, W.Z., Eaton, S., Dubow, J., Chatamra, K., & Benesh, J. (2016). Long-term PEG-J Tube safety in patients with advanced Parkinson's disease. *Clinical and Translational Gastroenterology*, *7*(3), e159.
6. **Epstein, M.S.**, Ehrenpreis, E.D., & Kulkarni, P.M. (2014). Biosimilars: the need, the challenge, the future: the FDA perspective. *The American Journal of Gastroenterology*, *109*(12), 1856-1859.
7. McLemore, E.C., Rai, R., Siddiqui, J., Basu, P., Tabbba, M., & **Epstein M.S.** (2012). Novel endoscopic delivery modality of infrared coagulation therapy for internal hemorrhoids. *Surgical Endoscopy*, *26*(11), 3082-3087.
8. Au-Yeung, K.Y., Moon, G.D., Robertson, T., DiCarlo, L.A., **Epstein, M.S.**, Weis, S.E., Reves, R.R., & Engel, G. (2011). Early clinical experience with networked system for promoting patient self-management. *American Journal of Managed Care*, *17*(7), e277-e287.
9. Jacobson, I. M., Brown, R. S., Freilich, B., Afdhal, N., Kwo, P. Y., Santoro, J., Becker, S., Wakil, A.E., Pound, D., Godofsky, E. Strauss, R., Bernstein, D., Flamm, S., Pauly, M.P., Mukhopadhyay, P., Griffel, L.H., & Brass, C.A. (2007). Peginterferon alfa-2b and weight-based or flat-dose ribavirin in chronic hepatitis C patients: A randomized trial. *Hepatology*, *46*(4), 971-981.
10. **Epstein, M.S.** (1995). Munchausen syndrome: Case reports and literature overview. *Maryland Medical Journal*, *44*(1), 39-43.

11. Devaney, K., Goodman, Z.D., **Epstein, M.S.**, Zimmerman, H.J., & Ishak, K.G. (1993). Hepatic sarcoidosis: clinicopathologic features in 100 patients. *The American Journal of Surgical Pathology*, 17(12), 1272-1280.
12. **Epstein, M.S.**, Ingram, C.W., Borts, F.W., Korman, L.Y., & Seef, L.B. (1986). Retrospective and prospective analysis of focal defects demonstrated by computerized tomography. *Gastroenterology*, 90(5), 1724.

ABSTRACTS

1. Bertiger, G., **Epstein, M.**, Marshall, D., & Dahdal, D. (2016). A low-volume sodium picosulfate and magnesium citrate bowel preparation has no effect on cardiovascular parameters in patients preparing for colonoscopy. Seattle, WA.
2. Draganov, P., **Epstein, M.**, Hawes, R., Johnson, D., Vanagunas, A., Robieson, W.Z., Chatamra, K., Benesh, J.A., & Eaton, S. (2016). Short- and long-term safety of PEG-J used for continuous infusions of levodopa-carbidopa intestinal gel. Vancouver, BC, Canada.
3. **Epstein, M.S.**, Clayton, L., Ng, R., & DeMicco, M. (2016). Efficacy and safety of the novel 1L PEG and ascorbate bowel preparation NER1006 versus standard 2L PEG with ascorbate in overnight or morning split-dosing administration: results from the phase 3 study. San Diego, CA.
4. **Epstein, M.**, Willey, R., Almansa, C., & Dahdal, D. Efficacy, safety and patient-reported tolerability of sodium picosulfate plus magnesium citrate in patients with previous bowel preparation experience. San Antonio, TX.
5. **Epstein, M.S.**, Clayton, L., Ng, R., & DeMicco, M. (2016). Efficacy and safety of the novel 1L PEG and ascorbate bowel preparation NER1006 versus trisulfate solution in overnight split-dosing administration: results from the phase 3 study NOCT. Vienna, Austria.
6. Poordad, F., Sedghi, S., Pockros, P.J., Ravendrhan, N., Reindollar, R., Lucey, M.R., **Epstein, M.**, Bank, L., Bernstein, D., Trinh, R., Krishnan, P., Piolot-Matias, T., Polepally, A.R., Pothacamury, R.K., Rajvineeth, K., Martinez, M., & Nelson, D.R. (2016). GEODE-II: Efficacy and safety of ombitasvir/paritaprevir/ritonavir and dasabuvir with low-dose ribavirin QD in patient with genotype 1a chronic hepatitis C virus infection without cirrhosis. Paris, France.
7. Poordad, F., Sedghi, S., Pockros, P.J., Ravendrhan, N., Reindollar, R., Lucey, M.R., **Epstein, M.**, Bank, L., Bernstein, D., Trinh, R., Krishnan, P., Piolot-Matias, T., Polepally, A.R., Pothacamury, R.K., Rajvineeth, K., Martinez, M., & Nelson, D.R. (2016). GEODE-II: Efficacy and safety of ombitasvir/paritaprevir/ritonavir and dasabuvir with low-dose ribavirin QD in patient with genotype 1a chronic hepatitis C virus infection without cirrhosis. Boston, MA.
8. Bertiger, G., **Epstein, M.**, Hutson-Walker, A., Almansa, C., & Dahdal, D.N. (2016). Comparison of bowel preparation quality scales used in randomized controlled trials of patients undergoing colonoscopy. Las Vegas, NV.
9. Vanagunas, A., Draganov, P., Schmulewitz, N., **Epstein, M.**, Hawes, R., Johnson, D., Benesh, J.A., Chatamra, K., Easton, S., Facheris, M.F., Hall, C.M., & Robieson, W.Z. (2016). Multi-year safety and durability of PEG-J used for continuous infusion of

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