

DAVID BLUMBERG, M.D., FACS, FASCRS

Board Certified General and Colorectal Surgery

Bandaid Surgery, P.C.

The Coronado Medical Building

500 South Aiken Avenue, Suite 107-110

Pittsburgh, PA 15218

(412) 682-3333

(412) 682-3335- fax

BandaidSurgery.com

Bandaid Surgery, PC: 2005 to present

Faculty Appointments:

1999-2005: University of Pittsburgh Medical Center

Assistant Professor of Surgery

Postgraduate Training:

1998-1999: Alton Ochsner Medical Center, New Orleans, LA

Fellow: Department of Colorectal Surgery

1996-1998: Memorial Sloan-Kettering Cancer Center, N.Y.

Fellow: Surgical Oncology

1994-1996: Maimonides Medical Center, N.Y.

Senior and Chief Resident: Department of Surgery

1991-1994: Memorial Sloan-Kettering Cancer Center, N.Y.

Research Fellow: Surgical Metabolism Laboratory

1989-1991: Maimonides Medical Center, N.Y.

Junior Resident: Department of Surgery

1988-1989: North Shore University Hospital &

Memorial Sloan-Kettering Cancer Center, N.Y.

Intern: Department of Medicine

Education:

2001: Fellow of the American College of Surgeons

2001: Diplomate of the American Board of Colon and Rectal Surgery

1999: Diplomate of the American Board of Surgery

1985-1988 : State University of New York : Downstate Medical School, N.Y.

Doctor of Medicine

1984-1985 : University Health Sciences/The Chicago Medical School, Illinois

1980-1984 : Emory University, Georgia,, Bachelor of Arts, Chemistry

DAVID BLUMBERG, M.D.

Societies : American Society of Colon and Rectal Surgeons

Association for Academic Surgery

Society of Surgical Oncology

American Society of Clinical Oncology

American College of Surgeons

Crohns and Colitis Foundation

Pittsburgh Surgical Society

Pittsburgh Colorectal Surgery Society

Pittsburgh Gut Club

Reviewer for *Journal of Gastrointestinal Surgery* 2003

Reviewer for *Diseases of Colon & Rectum* 1998

Reviewer for *Metabolism* 1997, 1998

Reviewer for *Cancer Research* 2002

Bibliography: Abstracts & Presentations:

1. **Blumberg D**, Burt ME , Kher U , Brennan MF. Tolbutamide Inhibits Gluconeogenesis In The Tumor-Influenced Hepatocyte. Presented at the 26th Annual Meeting of The Association for Academic Surgery , Montreal , Quebec , Canada , November 18-21 , 1992.
2. **Blumberg D** , Burt ME , Donner DB , Brennan MF. Effect of Tumor Necrosis Factor α on Gluconeogenesis in the Rat. Presented at the 54th Annual Meeting of The Society of University Surgeons , Seattle , Washington , November 13-16 , 1993.
3. **Blumberg D**, Tsuburaya A, Burt ME , Donner DB , Brennan MF. The Acute Metabolic Effects of Human Recombinant Tumor Necrosis Factor β in the Rat. Presented at the 46th Annual Meeting of The Society of Surgical Oncology, Los Angeles, California, March 18-21 , 1993.
4. Tsuburaya A , **Blumberg D** , Burt M , Brennan MF. Energy State and gluconeogenesis in tumor-bearing F344 rats. Proc. Am Assoc Cancer Res 34: 56, 1993.
5. **Blumberg D**, Tsuburaya A, Brennan MF, Burt M. Cancer Serum Depletes Hepatocyte ATP, Suppresses Gluconeogenesis and Causes Cell Death. Presented at the 44th Surgical Forum of the Annual Meeting of The American College of Surgeons, San Francisco, California, October 10-14, 1993.
6. Weksler B, **Blumberg D**, Lenert J, Ng B, Fong Y, Burt M. Isolated Single Lung Perfusion with Tumor Necrosis Factor α in a Rat Sarcoma Lung Metastases Model. Presented at the 30th Annual Meeting of the The Society of Thoracic Surgeons, New Orleans, Louisiana, January 31- February 2, 1994.

7. **Blumberg D**, Pinto J, Hochwald S, Brennan MF, Burt M. Hepatic Glutathione Synthesis is Upregulated in the Tumor-bearing State. Presented at the 47th Annual Meeting of The Society of Surgical Oncology, Houston, Texas, March 15-21, 1994.

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Abstracts & Presentations:

8. Harrison LE, **Blumberg D**, Berman RS, Ng B, Hochwald S, Brennan MF, Burt M. Exogenous Human Growth Hormone Does Not Influence Growth, Protein Kinetics or Cell Cycle Kinetics of Human Pancreatic Carcinoma In Vivo. Presented at the 45th Surgical Forum of the Annual Meeting of The American College of Surgeons, Chicago, Illinois, October 9-14, 1994.

9. Harrison LE, Port JL, Hochwald S, Berman RS, **Blumberg D**, Burt M. Perioperative Growth Hormone Improves Wound Healing and Immunologic Function in Rats Receiving Adriamycin. Presented at the 28th Annual Meeting of the Association for Academic Surgery, Albuquerque, New Mexico, November 16-19, 1994.

10. **Blumberg D**, Port JL, Weksler B, Burt ME, and the Memorial Sloan-Kettering Thoracic Service. Thymoma: A Multivariate Analysis of Prognostic Factors in Surgically Treated Patients. Presented at the Plenary Session of the 31st Annual Meeting of The Society of Thoracic Surgeons, Palm Springs, California, January 30- February 1, 1995.

11. Port JL, Harrison LE, Hochwald S, **Blumberg D**, Berman RS, Burt M. Impaired Wound Healing in Tumor Bearing Rats is Associated with Decreased Wound Hydroxyproline and Cytokine Levels. Presented at the 48th Annual Meeting of the Society of Surgical Oncology, Boston, Massachusetts, March 23-26, 1995.

12. Hochwald S, Harrison LE, Port JL, **Blumberg D**, Burt M. Alterations of hepatic high energy phosphate compounds in the tumor-bearing state. Proc. Am. Assoc. Cancer Res. 36: 37, 1995.

13. **Blumberg D**, Burt ME, Rosai J, Downey RJ, Martini N, Rusch V, Ginsberg RJ. Thymic Carcinoma: Current Staging Does Not Predict Prognosis. Presented at the 77th Annual Meeting of the American Association for Thoracic Surgery, Washington, D.C., May 4, 1997.

14. **Blumberg D**, Lewis JJ, Leung DH, Woodruff JM, Brennan MF. Localized Primary Extremity Synovial Sarcoma: A Prospective Analysis of Prognostic Factors. Proc. ASCO 16: 497, 1997.

15. **Blumberg D**, Paty PB, Picon AI, Guillem JG, Klimstra DS, Minsky BD, Quan SH, Cohen AM. Stage I Rectal Cancer: Identification of High Risk Patients. Presented at the

Paper Session of the 83rd Annual Clinical Congress of the American College of Surgeons, Chicago, Illinois, October 12-17, 1997.

16. **Blumberg D**, Paty P, Guillem J, Picon AI, Klimstra D, Minsky BD, Cohen AM. Blood Vessel Invasion is a Predictor of Lymph Node Metastases in Small Non-Transmural Rectal Cancers. Presented at the Plenary Session at the 51st Annual Cancer Symposium of the Society of Surgical Oncology, San Diego, CA, March 26-29, 1998.

17. **Blumberg D**, Antonescu C, Lewis JJ, Woodruff JM, Healey JH, Cordon-Cardo C, Brennan MF. Ki-67 Independently Predicts Distant Metastasis in Localized Primary Extremity Synovial Sarcoma. Presented at the 51st Annual Cancer Symposium of the Society of Surgical Oncology, San Diego, CA, March 26-29, 1998.

18. **Blumberg D**, Picon AI, Klimstra D, Cohen AM, Barany F, Paty PB. Evaluation of K-ras Mutations for Predicting Lymph Node Metastases in Early Stage Rectal Cancer. Presented at the 1998 Annual Meeting of the American Society of Colon and Rectal Surgeons, San Antonio, TX, May 3-7, 1998.

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Abstracts & Presentations:

19. **Blumberg D**, The Role of Genetics in Colon and Rectal Surgery: Is there a Clinical Role? Invited lecture at the Ochsner Clinic 6th Annual Gastrointestinal Surgery Update, Park City, Utah, February 13-16, 1999.

20. **Blumberg D**, Traumatic amputation of the rectum and anus. Reconstruction with the Artificial Bowel Sphincter. Presented at the 51st Annual Meeting of the Piedmont Society of Colon and Rectal Surgeons, LongBoat Key, Florida, April 15-17, 1999.

21. **Blumberg D**, Opelka FG, Hicks TC, Timmcke AE, Beck DE. The Significance of a Negative Colonoscopy in Patients with a History of Adenomatous Polyps. Presented at the 100th Annual Meeting of the American Society of Colon and Rectal Surgeons, Washington, D.C., May 2-7, 1999.

22. **Blumberg D**, Opelka FG, Hicks TC, Timmcke AE, Beck DE. Isolated Rectosigmoid Polyps: Is Flexible Sigmoidoscopy a Safe Alternative for Surveillance? Presented at the 100th Annual Meeting of the American Society of Colon and Rectal Surgeons, Washington, D.C., May 2-7, 1999.

23. **Blumberg D**, Cook T, Epperly M, Jefferson M, Liu K, Finkelstein S, Kibbe M, Greenberger J, Robbins P, and Billiar T. Adenoviral Delivery of WT p53 Augments the Cytotoxicity of Nitric Oxide and Radiation in Human Colon Cancer Cells Associated with an Increased S phase, G2M fraction and Apoptosis. Presented at the 92nd Meeting of the American Association of Cancer Research, New Orleans, LA, March 23-April 1, 2001.

24. **Blumberg D**, Epperly M, Jefferson M, Liu K, Cook T, Kibbe M, Chung J, Greenberger J, Billiar TR. Gene Therapy with the Human Inducible Nitric Oxide Synthase Gene Radiosensitizes Human Cancer Cells. Presented at the Annual Radiation Research Meeting, San Juan, Puerto Rico, April 21-26, 2001.
25. Epperly M, Guo HL, Jefferson M, Cook T, Sikora CA, Greenberger J, **Blumberg D**. Intratumoral Injections of Adenovirus Containing Inducible Nitric Oxide Synthase Transgene (iNOS) Sensitizes SNU-1040 Human Colon Tumors to Ionizing Irradiation. Presented at the 4th Annual Meeting of the American Society of Gene Therapy, Seattle, Washington, May 30- June 3, 2001.
26. Guo HL, **Blumberg D**, Wolfe D, Huang S, Glorioso JC, Greenberger JS, Epperly MW. Overexpression of Manganese Superoxide Dismutase (MnSOD) Protects Against Murine Intestinal Damage Induced by Total Body Irradiation. Annual Meeting of the American Society of Hematology, Orlando, FL, Dec 7-10, 2001.
27. Paty PB, Nash GM, Nakayama T, Zakowski MF, Baron P, **Blumberg D**, Lanouette NM, Nathanson DR, Minsky BD, Guillem JG, Enker WE, Cohen AM, Wong WD. Long-term outcome and prognostic factors for local excision of rectal cancer. Presented at the American Surgical Association Meeting, 2002.
28. **Blumberg D**, Guo H, Wolfe D, Liu K, Huang S, Glorioso JC, Greenberger JS, Billiar T, Epperly MW. Overexpression of Manganese Superoxide Dismutase (MnSOD) Protects Small Intestine from Ionizing Irradiation. Presented at the 2002 Annual Meeting at Digestive Disease Week, Small Intestine Plenary Session, San Francisco, CA May 19-22, 2002.

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Abstracts & Presentations:

29. **Guo H**, Wolfe DP, Huang S, Epperly ME, Greenberger JS, Glorioso J, **Blumberg D**. Herpes Simplex Virus Containing the Human Manganese Superoxide Dismutase Transgene (HSV-MnSOD) Protects the Intestine from Irradiation. Presented at the American Society of Gene Therapy 2002, Boston, Massachusetts.
30. Gamblin TC, Finkelstein SD, **Blumberg D**. Micodissection-Based Allelotyping: A Novel Technique to Examine Timing of Colorectal Anastomosis. Gold Medal Oral Presentation at the Southeastern Surgical Association Meeting, New Orleans, LA 2004.
31. Chung P, Cook T, Liu K, Vodovotz Y, Zamora R, Finkelstein S, Billiar T, **Blumberg D**. Overexpression of the Human Inducible Nitric Oxide Synthase (iNOS) Gene Enhances Radiation-Induced Apoptosis in Cancer Cells Lacking Functional p53. Presented at the 2nd International Conference Nitric Oxide Society, Prague 2002.

32. Vodovotz Y, Chung P, Cook T, Betten B, Zamora R, Billiar TR, **Blumberg D**. The role of p53 in regulating the response of TGF- β 1 to NO and Ionizing Irradiation in Colon Cancer Cells. Presented at the 2nd International Conference Nitric Oxide Society, Prague 2002.

Publications:

1. **Blumberg D** , Burt ME , Kher U , Brennan MF. Tolbutamide Inhibits Gluconeogenesis In The Tumor-Influenced Hepatocyte. *J Surg Res* 55: 1993, 565-569.
2. **Blumberg D** , Tsuburaya A , Burt ME , Donner DB , Brennan MF. The Acute Metabolic Effects of Human Recombinant Tumor Necrosis Factor β in the Rat. *Ann SurgOnc* 1(5):373-377,1994.
3. Tsuburaya A , **Blumberg D** , Burt M , Brennan MF. Energy Depletion in the Liver and Isolated Hepatocytes of Tumor-Bearing Animals. *J Surg Res* 59: 421-27,1995.
4. **Blumberg D**, Tsuburaya A, Brennan MF, Burt M. Cancer Serum Depletes Hepatocyte ATP, Suppresses Gluconeogenesis and Causes Cell Death. *Surgical Forum* 44: 510-512, 1993.
5. Weksler B, **Blumberg D**, Lenert J, Ng B, Fong Y, Burt M. Isolated Single-Lung Perfusion with Tumor Necrosis Factor α in a Rat Sarcoma Lung Metastases Model. *Ann Thorac Surg* 58:328-332, 1994.
6. Harrison LE, **Blumberg D**, Berman RS, Ng B, Hochwald S, Brennan MF, Burt M. Exogenous Human Growth Hormone Does Not Influence Growth, Protein Kinetics or Cell Cycle Kinetics of Human Pancreatic Carcinoma In Vivo. *Surgical Forum* 45:469-471,1994.
7. **Blumberg D**, Hochwald S, Pinto J, Burt M. Altered Glutathione Metabolism in the Tumor-Bearing State. *Ann Surg Onc* 2(4): 332-335, 1995.
8. **Blumberg D** , Hochwald S, Burt ME , Donner DB , Brennan MF. Tumor Necrosis Factor Alpha Stimulates Gluconeogenesis from Alanine In-Vivo *J Surg Oncol* 59: 220-225, 1995.
9. **Blumberg D**, Hochwald S, Brennan MF, Burt M. IL-6 Stimulates Gluconeogenesis in Primary Cultures of Rat Hepatocytes. *Metabolism* 44: 145-146, 1995.

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Publications:

10. Harrison LE, Port JL, Hochwald S, **Blumberg D**, Burt M. Perioperative Growth Hormone Improves Wound Healing and Immunologic Function in Rats Receiving

Adriamycin. *J Surg Res* 58:, 646-650, 1995.

11. Wang HY, Ng B, **Blumberg D**, Port J, Hochwald S, Burt M. Pulmonary Artery Perfusion of Doxorubicin with Blood Flow Occlusion: Pharmacokinetics and Treatment in Experimental Metastatic Sarcoma Model in the Rat. *Ann Thorac Surg* 60: 1390-1394, 1995.

12. Harrison LE, **Blumberg D**, Berman RS, Ng B, Hochwald S, Brennan MF, Burt M. Effect of Human Growth Hormone on Human Pancreatic Carcinoma Growth, Protein, and Cell Cycle Kinetics. *J Surg Res* 61: 317-322, 1996.

13. **Blumberg D**, Port JL, Weksler B, Delgado R, Rosai J, Bains MS, Ginsberg RJ, Martini N, McCormack PM, Rusch V, Burt M. Thymoma : A Multivariate Analysis of Factors Predicting Survival. *Ann Thorac Surg* 60: 908-914, 1995.

14. Fong Y, Federoff HJ, Brownlee M, **Blumberg D**, Blumgart LH, Brennan MF. Rapid and Efficient Gene Transfer in Human Hepatocytes by Herpes Viral Vectors. *Hepatology* 22 (3) : 723-729, 1995.

15. Hochwald SN, Harrison LE, Port JL, **Blumberg D**, Brennan MF, Burt M. Depletion of high energy phosphate compounds in the tumor-bearing state and reversal after tumor resection. *Surgery* 120: 534-41, 1996.

16. **Blumberg D**, Burt ME, Rosai J, Downey RJ, Martini N, Rusch V, Ginsberg RJ. Thymic Carcinoma: Current Staging Does Not Predict Prognosis. *Journal of Thoracic Cardiovascular Surgery* 115: 303-309, 1998.

17. **Blumberg D**, Paty PB, Picon AI, Guillem JG, Klimstra DS, Minsky BD, Quan SH, Cohen AM. Stage I Rectal Cancer: Identification of High Risk Patients. *J Am Coll Surg*, 186: 574-80, 1998.

18. **Blumberg D**, Paty PB, Picon AI, Guillem JG, Klimstra DS, Minsky BD, Quan SH, Cohen AM. Prognostic Factors in Stage I Rectal Cancer. Editorial in *General Surgery News*, December 1997.

19. **Blumberg D**, Paty P, Guillem J, Picon AI, Minsky BD, Cohen AM. All patients with Small Intramural Rectal Cancers are at risk for Lymph Node Metastasis. *Dis Colon Rectum* 1999;42:881-885.

20. **Blumberg D**, Beck DE. Colonoscopic Perforations, *Perspectives in Colon and Rectal Surgery* 1999: 12; 77-89.

21. **Blumberg D**, Paty PB, Guillem JG, Picon AI, Minsky BD, Wong WD, Cohen AM. All patients with small intramural rectal cancers are at risk for lymph node metastasis. *Dis Colon Rectum* 1999 Jul; 42(7): 881-5.

22. Lewis JJ, Antonescu CR, Leung DHY, **Blumberg D**, Healey JH, Woodruff JM, Brennan MF. Synovial Sarcoma: A Multivariate Analysis of Prognostic Factors in 112 Patients with Primary Localized Tumors of the Extremity, *J Clin Oncol* 2000, May; 18 (10):2087-2094.
23. **Blumberg D**, Opelka FG. Neoadjuvant and Adjuvant Therapy for Rectal Cancer in Protocols in General Surgery, Colon and Rectal Cancer. Ed Edelman PS, John Wiley and Sons, Inc., New York 2000.
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Publications:
24. **Blumberg D**, Opelka FG, Hicks TC, Timmcke AE, Beck DE. Significance of a Normal Surveillance Colonoscopy in Patients with a History of Adenomatous Polyps. *Dis Colon Rectum*, 2000; 43:1084-1092.
25. **Blumberg D**, Opelka FG, Hicks TC, Timmcke AE, Beck DE. The Natural History of Isolated Rectosigmoid Adenomatous Polyps: Is Flexible Sigmoidoscopy a Safe Alternative for Surveillance? *Dis Colon Rectum*, 2000; 43:976-979.
26. **Blumberg D**, Opelka FG, Hicks TC, Timmcke AE, Beck DE. Restorative Proctocolectomy:Ochsner Clinic Experience. *South Med Journal*, 2001;94: 467-71.
27. **Blumberg D** and Ramanathan RK. Treatment of Colon and Rectal Cancer. *J Clin Gastroenterol*, 2002; 34: 15-26.
28. **Blumberg D** and Beck DE. Surgery for Ulcerative Colitis. *Gastroenterol Clin N Am*. 2002; 31: 219-35.
29. **Blumberg D** and Wald A. Other Diseases of the Colon and Rectum. In Schlesinger and Fordtran's Gastrointestinal and Liver Disease 7th Ed. 2002; 2294-2311.
30. Jani N, Finkelstein S, **Blumberg D**, Regueiro M. Segmental Colitis Associated with Diverticulosis. *Dig Dis Sci* 2002; 47: 1175-81.
31. Paty PB, Nash GM, Baron P, Zakowski M, Minsky BD, **Blumberg D**, Nathanson DR, Guillem JG, Enker WE, Cohen AM, Wong WD. Long-term Results of Local Excision for Rectal Cancer. *Ann Surg* 2002; 236: 522-30.
32. Chung P, Cook T, Liu K, Vodovotz Y, Zamora R, Finkelstein S, Billiar T, **Blumberg D**. Overexpression of the Human Inducible Nitric Oxide Synthase (iNOS) Gene Enhances Radiation-Induced Apoptosis in Cancer Cells Lacking Functional p53. *Nitric Oxide* 2002; 6: 371.

33. Vodovotz Y, Chung P, Cook T, Betten B, Zamora R, Billiar TR, **Blumberg D**. The role of p53 in regulating the response of TGF- β 1 to NO and Ionizing Irradiation in Colon Cancer Cells. *Nitric Oxide* 2002; 6: 484.

34. Guo H, Wolfe DP, Huang S, Epperly MW, Greenberger J, Glorioso JC, **Blumberg D**. Herpes Simplex Virus Containing the Human Manganese Superoxide Dismutase (HSV-MnSOD) Protects the Intestine from Irradiation Damage. *Molecular Therapy* 2002; 5:S272.

35. **Blumberg D**, Guo H, Wolfe D, Liu K, Huang S, Glorioso JC, Greenberger JS, Billar T, Epperly MW. Overexpression of Manganese Superoxide Dismutase (MnSOD) Protects Small Intestine from Ionizing Irradiation. *Gastroenterology* 2002; 123S; 7.

36. Wolfe D, Epperly MW, Guo H, Huang S, Liu K, Glorioso JC, Greenberger J, **Blumberg D**. Gene Transfer of Human Manganese Superoxide Dismutase (MnSOD) Protects Small Intestinal Villi from Radiation Injury. *J Gastrointest Surg* 2003; 7: 229-36.

37. Chung P, Cook T, Liu K, Vodovotz Y, Zamora R, Finkelstein S, Robbins P, Billiar TR, **Blumberg D**. Overexpression of the Human Nitric Oxide Synthase Gene Enhances Radiation-Induced Apoptosis in Colorectal Cancers Cells. *Nitric Oxide* 2003; 8: 119-26.

38. Picon AI, Moore HG, Sternberg SS, Minsky BD, Paty PB, **Blumberg D**, Quan SH, Wong WD, Cohen AM, Guillem JG. Prognostic significance of depth of gross or microscopic perirectal fat invasion in T3N0M0 rectal cancers following sharp mesorectal excision and no adjuvant therapy *Int J Colorectal* 2003 18(6):487-92.

DAVID BLUMBERG, M.D.

Publications:

39. Wang Z, Cook T, Alber S, Liu K, Kovesdi I, Watkins SK, Vodovotz Y, Billiar TR and **Blumberg D**. Adenoviral Gene Transfer of the Human Inducible Nitric Oxide Synthase Gene Enhances the Radiation Response of Human Colorectal Cancer Associated with Alterations in Tumor Vascularity. *Cancer Res* 2004; 64: 1386-95.

40. Cook T, Wang Z, Alber S, Liu K, Watkins SC, Vodovotz Y, Billiar TR, **Blumberg D**. Nitric Oxide and Ionizing Radiation Synergistically Promote Apoptosis and Growth Inhibition of Cancer by Activation p53. *Cancer Res* 2004; 64: 8015-21.

41. Gamblin TC, Finkelstein SD, **Blumberg D**. Micodissection-Based Allelotyping: A Novel Technique to Examine Timing of Colorectal Metastases. *Am Surg.* 2006 72(5):445-53.

42. Raftopoulos I, Courcoulas AP, **Blumberg D**. Should completely intracorporeal anastomosis be considered in obese patients who undergo laparoscopic colectomy for benign or malignant disease of the colon? *Surgery.* 2006; 140, 675-83.

43. **Blumberg D.** Is operative conversion necessary for patients diagnosed with dense adhesions during an elective laparoscopic colectomy? *Surg Innov.* 2008; 15(3):213-8.

44. **Blumberg D.** Laparoscopic Colectomy Performed Using a Completely Intracorporeal Technique is Associated with Similar Outcome in Obese and Thin Patients. *Surg Laparosc Endosc Percutan Tec*, 2009, in press.

45. **Blumberg D.** Laparoscopic Colon Resection of Benign Polyps: High Grade Dysplasia on Endoscopic Biopsy and Polyp Location Predict Risk of Cancer. *Surg Laparosc Endosc Percutan Tec*, 2009, in press.

Invited Lectures:

1. University of South Florida, Surgical Grand Rounds, October 21, 2002: Surgical Advances to Improve the Oncologic Outcome of Patients with Rectal Cancer: TME and Beyond.

2. Meet the Professors: Management of locally recurrent rectal cancer, The Annual Meeting of the American Society of Colon and Rectal Surgeons, June 23, 2003.