

CURRICULUM VITAE

DINESH VYAS, M.D., M.S., FACS

Correspondence:

701 W 5th St Odessa, TX 79763

Education:

Residency/Training

Case Western Reserve University (2006-9) PGY III-V

University of Pittsburgh (2005-6) PGY II

Washington University School of Medicine (2003-5) (Basic Science Research fellow)

Medical School

University of Rajasthan, India (1997)

Certification:

American Board of Surgery Certified

Appointments:

2015 Associate Professor, Surgery
2015 Associate Dean, Surgery Research (Translation, Global Health and Clinical)
2015 Associate Program Director
2011 Lansing Director, Medical Student's Surgical Clerkship, Michigan State University
2011 Assistant Professor, Department of Surgery, Michigan State University, East Lansing
2011 Adjunct Professor, Institute of International Health, Michigan State University,
2010 Advanced LapEndoscopic Surgeon, MV Surgical Associates LLC, St Louis
2009 Advanced Laparoscopic, and Gastro-Intestinal Surgeon, St John's Mercy Hospital, USA
2004 – 5 Teaching Instructor, Department of Cell biology and Physiology, Washington University, St Louis, USA

Surgical/Clinical Expertise:

Robotic and Advance Laparoscopic Gastrointestinal Surgery

Imaging Guided Surgery

Endoscopic and Breast Surgery

Basic Science Research and Academic Expertise:

OncoSepsis Nanomedicine and Proteasome Inhibitor Research

Surgical Education and Curriculum Development

Global Health: [Link](#)

MOOC: Massive Open Online Course: health.edcast.org (Founder)

Grants:

2015 Dr. Delia Koo Global Faculty Endowment, International Studies and Program, MSU (PI)
2011-13 NIH K12 Grant, Multifunctional nanomolecule in breast cancer, BIRCWH Grant (PI)
2001 Trauma Grant, Emergency care, Worst earthquake in India, INR 500,000 (PI)

Editorial Board:

Editorial Board, *Nature* Scientific Reports (2013-) (Impact factor 5.1)
Associate Editor, Journal of Biomedical Nanotechnology (2013-) (Impact factor 7.4)
Editorial Board, Journal of OncoTargets and Therapy (2013-)
Editor-in-chief, American Journal of Robotic Surgery (2013-) www.aspbs.com/ajrs
Editor-in-chief, World Journal of Surgical Procedures (2012-15) www.wjgnet.com/2219-2832/
Editorial Board, Journal of Laparoendoscopic and Advanced SurgTech, 2010-15
Editorial Board, World Journal of Gastroenterology (2010-17)
Editorial Board, Journal of Liver, 2011-
Editorial Board, Reference.Medscape.com, 2011-
Editor, Newsletter, Arogyaa.com, October 2010

Book:

Vyas D, Gupta N: Comprehensive Textbook of Surgery, First Ed. Jaypee Publishers, 2006-11; ISBN **9789350250525: 52 Contributors and 25 Chapters**
**Vyas D, Gupta N: Comprehensive Textbook of Surgery, Second Ed. Jaypee Publishers, 2012-15
174 Contributors and 94 Chapters**
Vyas D: Manual for First Responder in Trauma and Emergency, Jaypee Publishers (2011-14)

Peer Review (National Committee)

NIH CONC Study Section: Oncology-2 Translational Clinical IRG/CSR/NIH (2015)
NIH Center for Scientific Review, Early Career Reviewer (2013)

Grant Application Prepration:

NSF Virology Load and gastrointestinal load in Yamuna River (Global Health)

Global Health: (Multi-national program) 2009-current

Founder, Pre-Hospital Care Program: First International Education Program of its kind
High-fidelity Simulation
Education Video: Development and Editing
Preparing Native Language courses
Manual for First Responders

Online education

Health.edcast.org: Founder, Pre-Hospital Care Program: First International Education Program of its kind

Professional Accomplishments

2015 Board of Directors, Association of Surgical Education
2015 Invited talk with **Nobel Prize Winner**, Prof. Yunus, Building Social Business Model for First Responders
2015 **Chair**, Association of Surgical Education, Committee on Social Responsibility and Citizenship
2013 Vice-Chair, Committee on Social Responsibility and Citizenship, Association of Surgical Education
2013 Organizing committee, Nanomedicine-2013, International Conference Nanomedicine
2013 Vice-President, Indian American Surgeon Association

- 2012 Chair, Session on sepsis, Surgery-2012, International Conference Surgery & Transplantation
- 2012 Scholarship and Education Committee, International College of Surgeons, USA
- 2012 Board of Director, Advisory Board, CarthaGlobal Venture, Uni of Iowa
- 2011 Collaborator, Khoranna International Scholarship, MSU, Lansing, MI
- 2010 Establishing Imaging Guided Surgery Unit, St John's Mercy Hospital, USA
- 2010 Establishing LapEndoscopic Hybrid Surgery Unit, St John's Mercy Hospital, USA
- 2010 International Trauma and Emergency Surgery Education Initiative
- 2010 Chairman, Acute Care Services, St. John Mercy Hospital, MO
- 2010 Travelling Consultant, Laparoscopic Hepatobiliary Surgery, Hopital Beaujon, University of Paris
- 2010 Travelling Consultant, Laparoscopic Hepatobiliary Surgery, University of Strasbourg, IRCAD

Hospital affiliations:

McLaren Regional Lansing Medical Centre, Lansing, MI

Community Service:

- 2015 Video presentation: prestigious Social Venture Capitalist Summit, Mumbai with Nobel Laureate
- 2012 CarthaGlobal Venture, Uni of Iowa
- 2011 Rural Health Mission with Telemedicine
- 2010 Arogyaa Healthcare Services for Global Health
- 2001 Earthquake Relief work

University Committees:

- Medical Student Admission Committee (2014-15)
- LCME Visit Preparation: Research Committee (2014-15)
- Residency Selection Committee, Surgery, Michigan State University

Visiting Professor

- SMS Medical College, Jaipur (2016)
- Pratima Medical College (2016)
- Rajasthan Police Academy, Jaipur (2015)
- Center for Research, West Virginia University (2015)
- Department of Surgery, University of Toledo (2015)
- Trauma Department, Dr. S.N. Medical College, Rajasthan University (2104)
- All India Institute of Medical Sciences, Jodhpur (2014)
- Medipulse Hospital, Jodhpur (2014)
- S.M. S. Medical College, Jaipur (2014)
- M. G. Medical College, Jaipur (2014)
- All India Institute of Medical Sciences, New Delhi (2014)
- Emergency Department, Apollo Hospital Group, Hyderabad (2012)
- Emergency Medical Research Institute, Gujarat State, Ahmadabad (2012)
- Department of Surgery, Dr. S.N. Medical College, Rajasthan University (2012)

Administrative and Financial Accomplishments:

Associate Dean Surgery Research (2015-)
Chair, Committee on Social Responsibility and Citizenship, Association of Surgical Education (2015-)
CEO, HRD and Recruiting Staff, MV Surgical Associates LLC, St Louis, MO (2010-)
Chairman, Hospital Acute Care Services, St John Mercy Hospital (2010)
Nomination and Recruiting Senior Faculty Contributors for Holistic Surgery, Textbook for Surgeons (2009)
Relief camp organizer, fund raiser and leader during one **the worst earthquakes in India**, 2000
Multiple Fund Raising Events for Medical Education in India
Organizing committee of Pre-Hospital Care Initiative at IASA

Honors and Achievements:

2015 Global Health Invited Speaker and Panelist, National Medical Association Conference, Detroit
2015 Invited Speaker, Telemedicine and next generation, RAJMAAI, Atlanta
2012 Scholarship and Education Committee, International College of Surgeons, USA
1996 Honored among top 5 outgoing medical graduates (Equivalent to AOA)
1991 Selected through competitive national exam for medical education (1000/500,000)
1989 National Mathematic Olympiad Silver Medal Winner (Score: 99/100)

Teaching Experience:

2015- Associate Program Director, Surgery Residency
2011 - 5 Director, Sur 608, Surgical Clerkship, College of Human Medicine, MSU
2011 - HM 531 (Patient Physician Relationship) Mentoring program First year medical students
2000-2, 5-9 Surgical Resident Education:
2002-4 Medical educator (2002)- Medical education provider, course material provider and
Simulated examination of USMLE for www.exammaster.com
2003- 2005 Teaching and mentoring undergraduate biology students at Washington Univ.

License:

Michigan – Full License 4301099055
Illinois State – Full License 036127048
Missouri State – Full License 2009006855
Medical Council of India – Full License

Other Educational Accomplishments:

2002 Step 1 Membership exam, Royal College of Surgeons of Edinburgh, UK
2002 Step 2 Membership exam, Royal College of Surgeons of Edinburgh, UK
2002 Master's in General Surgery, Rajasthan University
2003 Step 3 Membership exam, Royal College of Surgeons of England, UK

Societies and Memberships:

International Association of University Colorectal Surgeons

Association of Academic Surgeons
American College of Surgeons
American Hepato Pancreato Biliary Association
International Hepato Pancreato Biliary Association
Indian Association of Gastro Endoscopic Surgeon
The Association of Surgical Education
The American Society of Clinical Oncology
American Physiological Society
Nw York Academy of Science
Radiological Society of North America.
Australian Medical Writer Association

Peer Reviewer

Gastroenterology and Hepatology (Canada), (Editorial board) 2011-
Journal of Laparoendoscopic and Advanced Surgical Technique, (Editorial board) 2011-14
World Journal of Gastroenterology, (Editorial board) 2010
Crush Surgical Exams (Editor-in-chief) Jaypee Brothers.
Manual of Surgery for House Surgeon (Editor) Paras Medical Publishers
USMLE exam preparation Courses, Exammaster.com (Contributing author)
Surgical Laparoscopy Endoscopy & Percutaneous Techniques (Peer Reviewer) 2010
Scandinavian Journal of Gastroenterology (Peer Reviewer) 2009
Journal of American Medical Association (Peer Reviewer) 2009
MedEdPORTAL (Peer Reviewer) 2009
Indian Journal of Gastroenterology (Peer Reviewer) 2009
World Journal of Emergency Surgery (Peer Reviewer), 2009
International Journal of Cancer (Peer Reviewer), 2009
Journal of Laparoendoscopic and Advanced Surgical Technique (Peer Reviewer), 2009
GUT, British Medical Journal Publications (Peer Reviewer), Impact factor 7.7
Journal of Histochemistry and Cytochemistry (Peer Reviewer), Impact factor 3.4
Lancet (Peer Reviewer), Impact factor 17.5
Lancet – Oncology (Peer Reviewer), Impact factor 9.6
Lancet – Infectious Diseases (Peer Reviewer), Impact factor 10.0
Lancet – Neurology (Peer Reviewer), Impact factor 11.23
Australasian Journal of Trauma (Peer Reviewer)
Critical Care (Peer Reviewer), Impact factor 3.2
World Journal of Surgery (Peer Reviewer), Impact factor 1.6
Annals of Surgery (Peer Reviewer), Impact factor 6.3
American Journal of Respiratory and Critical Care (Peer Reviewer), Impact factor 8.9

Research: Bench and Clinical- Main Investigator:

- 2012 Role of novel nanoparticles in chemotherapy and oncosepsis
- 2012 Medicare database study for colonoscopy guidelines
- 2011 Nanomolecule coating of doxycycline in oncosurgery: Principal Investigator
- 2011 Novel proteasomes application in sepsis: Principal Investigator
- 2010 Discrepancy in global healthcare: medical economics: Principal Investigator
- 2007 Quality life of trauma patient – 15 year study (Case Western Reserve University)
- 2006 Cold preservative in living related kidney transplant (Univ. of Pittsburgh)
- 2005 Quality life of trauma patients with splenic injury – 5-year study (Wash. Univ.): Principal Investigator
- 2004 Combination of COX/LOX inhibitor improves survival in sepsis and decrease gut epithelial apoptosis (Wash. Univ.): Principal Investigator
- 2005 Superior mesenteric artery - ischemia & reperfusion and role of apoptosis (Wash. Univ.)
- 2003 Ano-rectal incontinence and antegrade colonic enema (Birmingham Univ.)
- 2003 Sepsis & role of apoptosis in gut & spleen, IL6, IL10 & Bcl-2 (Wash. Univ. School of Medicine)
- 2001 Role of Ileostomy in enteric perforation with late presentation (Raj. Univ.)
- 2001 Evaluation of bile duct injury and role of hepatico-jejunostomy (Raj. Univ.)
- 2001 Evaluation of obstructive jaundice and the role of pancreatico-duodenectomy (Raj. Univ.)
- 2000 Role of splenectomy in hypersplenism - Thesis (Raj. Univ.)

Extra-curricular Activities:

Sports - State level university player-Basketball

Interest in current affairs

Annexures:

Peer Review Publications/Published Abstracts:

- 1 Aekka A., M. V. Hollis, E. M. Boudiab, G. P. Laput, H. Purohit, A. K. Vyas, **Vyas D.** Prehospital Trauma Care Education for First Responders in India, *Journal of Surgical Research* 2015 Aug;197(2):331-8
- 2 Hollis M., Nair A, Chaturvedi LS, Vyas A, Gambhir S, **Vyas D.** miRNA and colorectal cancer, *WJG* July 21, 2015, Volume 21, Issue 27
- 3 Lopez N, Gandhi S, Castro P, Chaturvedi L, Vyas A, **Vyas D.** A second-generation proteasome inhibitor is more potent than Doxorubicin modulating IL-6, pSTAT-3 and NF-kB activity in triple negative breast cancer. *JNN* (in press)
- 4 **Vyas D,** Gieric L, Ching K, Chaturvedi LS, Vyas A: Rapid extensive recurrence of triple negative breast cancer: Is both therapy and cancer biology the culprit. *JOCMR* (in press)
- 5 **Vyas D,** Balakrishnan A. Cell cycle interventions in gastrointestinal cancers. *World Journal of Gastroenterology* (revised)
- 6 **Vyas D.** Surgical Innovation and peer review; *American Journal of Robotic Surgery* (in press)
- 7 G. P. Laput, Aekka A., M. V. Hollis, E. M. Boudiab, H. Purohit, A. K. Vyas, **Vyas D.** Multi-institution study in Prehospital Trauma Care Education for First Responders, *JACS* 2015 Nov (Abstract, in press)
- 8 **Vyas D.*,** Sahil Gambhir*, Hollis M. Vyas A. Gastrointestinal Cancer and Nf-kB, *World Journal of Gastroenterology* 2015 March 21; 21(11): 3174–3183 *co first author
- 9 Lopez N, Gandhi S, Castro P, Chaturvedi L, Vyas A, **Vyas D.** A second-generation proteasome inhibitor is more potent than Doxorubicin modulating IL-6, pSTAT-3 and NF-kB activity in triple negative breast cancer. *JNN* (in press)
- 10 **Vyas D,** Apoorva Aekka, Vyas AK,: Fecal transplant policy and legislation. *World Journal of Gastroenterology.* 2015 Jan 7; 21(1): 6–11.
- 11 **Vyas D,** Gandhi S, Castro P, Chaturvedi L, Lopez N, Vyas A. Iron Oxide Nanoparticle with Doxorubicin and Hyaluronic Acid potentiates the efficacy of Doxorubicin in Triple Negative Breast Cancer Cells through inflammatory pathway, *JNN* Volume 14, Number 1, January 2014, pp. 913-923(11)
- 12 **Vyas D,** Yixin Tong, Chaturvedi LS; The therapeutic effect and mechanism of a novel long-acting second-generation proteasome inhibitor (SGPI) in MDA-MB-231 TNBC cells. *JACS*; October 2014 Volume 219, Issue 4, Supplement, Page e176
- 13 **Vyas D,** Gieric Laput, Vyas AK. Chemotherapy induced inflammation may cause early metastasis. *Oncotarget and therapy* 2014: Jun 12; 7 1015-1023
- 14 **Vyas D,** Ahmed Hozain. Clinical peer review in the United States: History, legal development and subsequent abuse., *World Journal of Gastroenterology,* June 7; 2014 20(21):
- 15 **Vyas D,** Wafa Abdullah. Robotic diligent and expeditious detorsion of gastric volvulus. *Videoscopy-JLAST* and part B January 2014, 24
- 16 Saadeh Y, Vyas A, **Vyas D.** Breast cancer and theranostic nanoparticle, *Journal of Nanoscience and Nanotechnology,* Volume 14, Number 1, January 2014 , pp. 913-923(11)
- 17 **Vyas D,** Castro P, Saadeh Y, Gandhi S, Lopez N, Vyas A. Gastrointestinal diseases and theranostic Nanoparticle, *Journal of Biomedical Nanotechnology,* 2014 (**Impact Factor 7.2**)
- 18 Saadeh Y, **Vyas D.** Nanorobotics: Current Status and Future Directions. *American Journal of Robotic Surgery,* Volume 1, Number 1, June 2014, pp. 4-11(8)

- 19 **Vyas D.** A mission for next generation Robotic Surgery. American Journal of Robotic Surgery, Volume 1, Number 1, June 2014, pp. 38-41(4)
- 20 **Vyas D,** Jay Shah, Vyas Arpita. History of robotics surgery in surgical specialties. American Journal of Robotic Surgery, Volume 1, Number 1, June 2014, pp. 12-20(9)
- 21 **Vyas D,** Cara Weiner. Current status single site robotic surgery and future directions, American Journal of Robotic Surgery, Volume 1, Number 1, June 2014, pp. 55-58(4)
- 22 **Vyas D,** Carter Daniel. Robotics and endoscopy. American Journal of Robotic Surgery, Volume 1, Number 1, June 2014, pp. 48-54(7)
- 23 **Vyas D,** Heidi. L, Vyas A. Stool therapy may become a preferred treatment of recurrent *Clostridium Difficile*. World Journal of Gastroenterology; 19(29), August 2013
- 24 Joshi SS, Vyas AK, **Vyas D,** Kalla R. Reclassifying inflammatory bowel disease with capsule endoscopy in children. J Pediatr (Rio J). 2013 Jul 12.
- 25 **Vyas D.,** Liza Gill. Navigation systems in liver surgery: The new challenge for surgical research. J Laparoendosc Adv Surg Tech A., Vol 23, No. 4, 2013
- 26 **Vyas D,** L. S. Chaturvedi, Mohammad Eldakdouki, Marc Basson, Arpita Vyas, P. S. Mohankumar, Xuefei Huang. A Theranostic Nanoparticle/Curcumin Combination Decreases Doxorubicin-Induced Cytokine Production in MDA-MB-231 Breast Cancer Cells via IL-6/NF-kB pathway. *Journal of Women's Health* (Larchmt) (abstract). 2013
- 27 **Vyas D.,** Garthe C, Vyas A. Limitations of Current Timing and Frequency of Screening Colonoscopy and possible future direction. J Laparoendosc Adv Surg Tech A. 2013.
- 28 **Vyas D,** Phil K, S Kavuturu, Vyas A. Benign Mesothelioma as a rapidly developing Giant Abdominal Cyst. W Journal of Surgical Oncology, 2012 Dec 20;10(1):277.
- 29 **Vyas D,** L. S. Chaturvedi, Mohammad Eldakdouki, Marc Basson, Arpita Vyas, P. S. Mohankumar, Xuefei Huang. Novel theranostic nanoparticle use for efficient administration of Doxorubicin in breast cancer cell. *Journal of Women's Health* (Larchmt) (abstract). 2012 Oct;21(10):1008.
- 30 **Vyas D,** Vyas A. Time to detoxify medical literature from Guidelines overdose, *World Journal of Gastroenterology*, 2012 18(26):3331-3335
- 31 Saju Rajan, **Dinesh Vyas,** Cheryl A Woolsey, Andrew T Clark, Richard S Hotchkiss, Timothy G Buchman, Craig M Coopersmith Intestine-specific overexpression of IL-10 improves survival in polymicrobial sepsis, *Shock*. 2008 April; 29(4): 483–489. (Impact Factor 2.8)
- 32 Henkie P, **Vyas D,** Amit Basu, Amadeo Marcos, Parmjeet Randhawa, Thomas E. Starzl, and Ron Shapiro,. Tan. Cold Heparinized Lactated Ringers with Procaine (HeLP) Preservation Fluid in 266 Living Donor Kidney Transplantations", *Transplantation*, 2007 Apr 27;83(8):1134-6 (Impact Factor 3.8)
- 33 **Vyas D,** Robertson CM, Stromberg PE, Martin JR, Dunne WM, Houchen CW, Barrett TA, Ayala A, Perl M, Buchman TG, Coopersmith CM. Epithelial apoptosis in mechanistically distinct methods of injury in the murine small intestine. *Histology and Histopathology*, 2007 Jun;22(6):623-30 (Impact Factor 2.4)
- 34 **Vyas D.** Conservative management of four days old Boerhaave Syndrome with feeding jejunostomy and Mozapride. *Scandinavian Journal of Gastroenterology*. 2006 Oct;41(10):1242-4. (Impact Factor 2.1)
- 35 **Vyas D,** Javadi P, Dipasco PJ, Buchman TG, Hotchkiss RS, Coopersmith CM. Early antibiotic administration but not antibody therapy directed against IL-6 improves survival in septic mice predicted to die on basis of high IL-6 levels. *Am J Physiol Regul Integr Comp Physiol*. 2005 Oct; 289(4) (Impact Factor 3.4)
- 36 Javadi P, Buchman TG, Stromberg PE, Turnbull IR, **Vyas D,** Hotchkiss RS, Karl IE, Coopersmith CM. Iron dysregulation combined with aging prevents sepsis-induced apoptosis. **J Surg Res**. 2005 Sep;128(1):37-44. (Impact Factor 2.4)

- 37 Robertson, Charles M; Stromberg, Paul; **Vyas, Dinesh**; Martin, James; Sherman, Benjamin; Buchman, Timothy; Coopersmith, Craig; Hotchkiss, Richard Identifying the optimal method to quantify gut apoptosis in critical illness.: 147-T. *Critical Care Medicine. Society of Critical Care Medicine 35th Critical Care Congress San Francisco, California, USA January 7-11, 2006.*
- 38 Rajan, Saju; **Vyas, D**; Buchman, T G; Coopersmith, C M; Hotchkiss, R S Intestinal specific over expression of IL-10 improves survival in a polymicrobial model of sepsis: 104-T. *Critical Care Medicine. Society of Critical Care Medicine 35th Critical Care Congress San Francisco, California, USA January 7-11, 2006.*

Book Chapters

- 1 **Vyas D.** Health transition. In Forsyth T.J. (ed.) pp 491-3. *The Routledge Encyclopedia of International Development.* London: Routledge 2005.
- 2 **Vyas D.** 2012 Inguinal Hernia. In Vyas D. (ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525
- 3 Gupta R, **Vyas D.** 2012 Trauma. In Vyas D. (First ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525
- 4 Vyas A, **Vyas D.** 2012 Tips and Teasers. In Vyas D. (First ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525
- 5 Gandhi S., **Vyas D.** 2012 Surgery in Geriatric Population. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525 (in print)
- 6 Haridas M, **Vyas D.** 2012 Liver. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 7 Haridas M, **Vyas D.** 2012 Gall Bladder. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 8 Ching Karen, **Vyas D.** 2012 Unique breast conditions. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 9 Kavuturu S, **Vyas D.** 2012 Minimally Invasive Surgery and Robotic Surgery. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 10 Ahmed Hozain, Vyas A, **Vyas D.** Peer review process for hospital quality care. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 11 Shah Jay, **Vyas D.** History of Robotics Surgery. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)
- 12 **Vyas D.** Telerobotic Surgery. In Vyas D. (Second ed.). *Comprehensive Textbook of Surgery, Delhi:* Jaypee Brothers. ISBN 9789350250525(in print)

Video Presentations:

- Vyas D,** Robotic right colon resection in high BMI patient, Indian Society of Colo-Proctology 2012, Jaipur, India
- Vyas D,** Recurrent Hiatal Hernia Repair and Epiphrenic Diverticulum Excision, Invitation Speaker, Plenary Session, X Annual India International Laparoscopic Endoscopic Conference, Feb 18-21, 2010
- Vyas D,** Complex Laparoscopic Surgeries, Invitation Speaker, St John Mercy Hospital, USA 2010
- Vyas D.** Simple and Complex Pre-Hospital care, AIIMS, Jodhpur, India, Aug 2014
- Vyas D.** Communication and Triage, AIIMS, Jodhpur, India, Aug 2014

International and National Meeting Presentations:

Abraham R, Hollis M, Malhotra A, **Vyas D.** Multi-institutional pre-hospital trauma education study, ASC 2016 (Podium Presentation)

Deshpande K, Chaturvedi LS, **Vyas D.** Inflammatory Gene Microarray with irreversible proteasome inhibitor in TNBC ASC 2016 (Poster presentation)

Abraham R, Hollis M, Malhotra A, **Vyas D.** Pre-hospital trauma education study, North Texas ACS meeting 2016 (submitted)

Deshpande K, Chaturvedi LS, **Vyas D.** Inflammatory Gene Microarray in TNBC; North Texas ACS meeting 2016 (submitted)

Abraham R, Hollis M, Malhotra A, **Vyas D.** Four-tier education pre-hospital protocol, North Texas ACS meeting 2016 (submitted)

Deshpande K, Chaturvedi LS, **Vyas D.** Cyclin changes on proteasome inhibitor treatment in TNBC; North Texas ACS meeting 2016 (submitted)

Joseph Saju, Charles Burn, Subhasis Misra, Dinesh Vyas. Retroperitoneal sarcoma incidence in Permian Basin, Texas; North Texas ACS meeting 2016 (submitted)

Gieric L, **Vyas D.** Multi-center study for pre-hospital care in fast developing countries. ACS 2015

Aekka A., M. V. Hollis, E. M. Boudiab, G. P. Laput, H. Purohit, A. K. Vyas, **Vyas D.** Prehospital Trauma Care Education for First Responders in Western Rajasthan, Academic Surgical Congress, 2015, Las Vegas.

Vyas D: Ecosystem Building in Pre-Hospital Care: Keynote Speaker, Nov.2014 AIIMS, New Delhi, India

Vyas D: Systems issue in Pre-Hospital Care: Keynote Speaker, Nov.2014 KIMS, India

Vyas D, Xiyin Tong, Vyas A, L. Chaturvedi. The therapeutic effect and mechanism of a novel long-acting second-generation proteasome inhibitor (SGPI) in MDA-MB-231 TNBC cells. *American College of Surgeons Congress - October, 2014 – San Francisco, CA*

Vyas D: Pre-Hospital Care: prime time issue: Keynote Speaker, Aug.2014 AIIMS, Jodhpur, India

Nico Lopez, L. Chaturvedi, Shah P, **Vyas D.** In-vivo and in-vitro Efficacy of Proteasome Inhibitors as Compared to Doxorubicin in Triple Negative Breast Cancer. *Annual Academic Surgical Congress - February 5-7, 2014 – San Diego, CA*

Shabahang Mohsen, **Vyas D** et al. Social Responsibility for Social Learner. Association Surgical Education Week. Chicago 2014

Arpita K Vyas, Vanessa Hoang, Mohankumar SM, Jiangjiang Bi, **Dinesh Vyas**, Richard Leach, Gregory D Fink. Glucagon Like Peptide-1 (GLP-1) modulates glucose homeostasis and weight gain in a rat model of Polycystic Ovarian Syndrome without affecting left ventricular changes, Society of Gynaecology International, Florence, Rome, 2014

Nico Lopez, L. Chaturvedi, M. Basson, A. Vyas, Xuefei Huang, **Vyas D.** Novel Proteasome inhibitor decreases proliferation in triple negative breast cancer cell of both Doxorubicin and its theranostic nanoparticles (Doxorubicin-Hyaluran). AACR San Antonio Breast Meeting, 2013

Nico Lopez, L. Chaturvedi, M. Basson, A. Vyas, Xuefei Huang, **Vyas D.** A Theranostic Nanoparticle/Curcumin Combination Decreases Doxorubicin-Induced Cytokine Production in Triple Negative Breast Cancer Cells via IL-6/NF- κ B pathway. *10th Annual Interdisciplinary Women's Health Research Symposium, October 15, 2013, NIH, Bethesda*

Nico Lopez, L. Chaturvedi, M. Basson, A. Vyas, Xuefei Huang, **Vyas D.** Novel theranostic nanoparticles (Doxorubicin-Hyaluran) with curcumin ameliorates cytokine surge in triple negative breast cancer cell. ASC, 2013 (standby poster)

Vyas D., S. Samsophear, P. Castro, L. Chaturvedi, L. Azevedo, J. Tepe, M. Basson, S. Patel, A. Vyas Novel NF- κ B Inhibitor Rescues Mice With High IL-6 Levels In Sepsis, And Reduces Gut Apoptosis In Double Hit Injury: Sepsis Followed By Hemorrhage. *Annual Academic Surgical Congress - February 5-7, 2013 - New Orleans, LA*

Vyas D., L. S. Chaturvedi, Mohammad Eldakdouki, Marc Basson, Arpita Vyas, P. S. Mohankumar, Xuefei Huang. Novel theranostic nanoparticle use for efficient administration of Doxorubicin in breast cancer cell. *9th Annual Interdisciplinary Women's Health Research Symposium, November 15, 2012, NIH, Bethesda*

Vyas D., Mohammad E, Chaturvedi L, Basson M, Bumpers H, Xuefei H. Uptake of Theranostic Nanoparticle in MCF-7 breast cancer cells, Western Surgical Association, Colorado , 2012 (Podium Presentation)

Vyas D., Mohammad E, Chaturvedi L, Basson M, Bumpers H, Xuefei H. CD 44 causes increased early uptake of Theranostic Nanoparticle in triple negative breast cancer, American College of Surgeons-Michigan Chapter, 2012 (Podium Presentation)

Vyas D., Mohammad E, Chaturvedi L, Basson M, Bumpers H, Xuefei H. Flowcytometry study of increase apoptosis induced by novel nanoparticle in triple negative breast cancer, International Nanomedicine Conference in Drug delivery and Cancer Diagnosis, U of Delaware 2012

Vyas D., Mohammad E, Chaturvedi L, Basson M, Xuefei H. Role of Multifunction Theranostic nanoparticle in triple negative breast cancer, MSU Research Day, Feb 14, 2012

Robertson CM, **Vyas D.**, Stromberg PE, Martin J, Sherman B, Hotchkiss RS, Buchman TG, Coopersmith CM. Identifying the optimal method to quantify gut apoptosis in critical illness. 35th Critical Care Congress, Society of Critical Care Medicine, San Francisco, January 8-11, 2006.

Rajan S, **Vyas D.**, Hotchkiss RS, Buchman TG, Coopersmith CM. Intestine Specific Overexpression of IL-10 Improves Survival in a Polymicrobial Model of Sepsis. 35th Critical Care Congress, Society of Critical Care Medicine, San Francisco, January 8-11, 2006.

McConnell, KW, DiPasco P, Chang K, Schreiber T, **Vyas D.**, Dunne WM, Buchman TG, Hotchkiss RS, Coopersmith CM. Gram positive and gram negative murine pneumonia induce unique changes in lymphocyte apoptosis and neutrophil migration. Presented to the 28th annual conference on Shock, Shock Society, Marco Island, FL, June 4-7, 2005.

Vyas D., Javadi P, Buchman TG, Woolsey CA, Hotchkiss RS, Karl IE, Coopersmith CM. Antibiotics and anti-IL 6 at 6 hours significantly reduce mortality in mice with high serum IL 6 level- 66th Annual Meeting The Society of University Surgeons, Nashville, TN, 2005.

Vyas D. et al. - Clinical study of ileostomy in 7-day-old enteric perforation. Presented to International College of Surgeons, XIV Asia Pacific Federation Congress, Hyderabad, 2001.

Vyas D et al. – Management of Enteric Perforations in Enteric Fever. Presented to International College of Surgeons, XIV Asia Pacific Federation Congress, Hyderabad, 2001

Vyas D et al, Pancreas Carcinoma, Educational Conference, Raj University, 2000

Vyas D et al, Trauma Care, Educational Conference, Raj University, 2001

Vyas D et al, Emergency Surgery, Educational Conference, Raj University, 2002

Vyas D et al, Antegrade Enema in females with rectal incontinence, Conference, Birmingham University, 2002

Invitation Speaker

August 2015: Telemedicine in fast developing economies: Morehouse Uni and Rajmaai, Atlanta

August 2015: Trauma Education: Fast Developing Nations: Morehouse Uni and Rajmaai, Atlanta

July 2015: Trauma education ecosystem: leapfrogging, National Medical Asso, Detroit

March 2015: Postgraduate Course, AIIMS, New Delhi

Nov 2014: Ecosystem for pre-hospital care; All India Institute of Medical Sciences, New Delhi, India

Nov 2014: Rajasthan State and Pre-Hospital care initiative, Sharma M, Health Secretary, Rajasthan

Nov 2014: Rajasthan State and Pre-Hospital care program, Kumar Tanmay, Secretary to CM, Rajasthan

Nov 2014: Mock Drill for first responders: All India Institute of Medical Sciences, Jodhpur, India

Nov 2014: Phase II, M G U Medical College, Pre-Hospital Care: Dr. S.N. Medical College, India

Feb 2014: Pre-Hospital Care: Dr. S.N. Medical College, India

Feb 2014: Pre-Hospital Care: All India Institute of Medical Sciences, Jodhpur, India

Feb 2014: First Responder: Police department, Jodhpur Division, (7 Counties Task force), India

Feb 2014: PH and FR System Development: Administration. Commissioner, Jodhpur Division, (7 Counties Task force), India

Oct 2013: An unsolved challenge in medical care: Sepsis: College of Engineering Seminar, MSU

April 2013: Nanotherapy in breast cancer, Nanomedicine 2013, Barcelona, Spain

Nov 2012: New frontiers to tackle sepsis: Search for antibiotics companion; International Conference & Exhibition on Surgery & Transplantation, San Antonio, USA

Feb 2012: Sepsis Care in the Emergency department, Apollo Hospital, Hyderabad

Feb 2012: Research Initiation in an Institute, Apollo Hospital, Hyderabad

Feb 2012: Integration of High End wireless technology in trauma in current scenario, Apollo Hospital, Ahmedabad

Feb 2012: Developing a state of art trauma care center with high end wireless technology, Dr S N Medical College, Jodhpur, India

Nov 2011, Tackle sepsis: Search for antibiotics companion Grand Round, MSU Surgery Department

Trainees: (details in parenthesis show their current/upcoming affiliation)

Rohit Abraham; Medical Student, MSU (**MSU Education Grant, PI: Vyas**) 2015

Archana Balakrishnan; Medical Student, MSU (**MSU Education Grant, PI: Vyas**) 2015

Kaivalya Deshpande; Medical Student, MSU (**MSU Education Grant, PI: Vyas**) 2015

Elizabeth Boudiab, Medical student, MSU 2014-5

Kavitha Nair MD, Internal Medicine Resident, Emory University 2014-5
Heidi L, Medical Student, MSU (ENT Resident, Washington University)
Apoorva Akeeka, Medical Student, MSU (**MSU Education Grant, PI: Vyas**) 2014
Dr. Peter Kurniali, Heme-Oncology Fellow, MSU
Michael Hollis, Medical Student, MSU (Pediatrics Urology Robotic Research Fellow, MGH, Harvard University)
Tiffany Leung, Medical Student, MSU (Medicine Resident, UC Davis)
Yamaan Sadeh, Medical Student, MSU (Neurosurgery Resident, University of Michigan)
Dr. Sulakshna Gandhi, MD, Internal Medicine Residency, Philadelphia
Nico Lopez, Medical Student, Michigan State University (Pathology Residency, Loyola University) (**MSU Travel Grant, PI: Vyas**) 2014
Ahmed Hozain, Medical Student, MSU (Surgery Resident, SUNY NY)
Jay Shah, Medical Student, Michigan State University (Radiology Residency, University Illinois)
Say Samsophear, Medical Student, Michigan State University
Gieric Laput, Medical Student, Michigan State University
Abdullah Wafa, Medical Student, MSU (Surgery Resident, Wayne State University affiliate Hospital)
Dr. Yixin Tong, Assistant Professor, Department of Surgery, Wuhan University, China
Dr. Celia Tong, Assistant Professor, Department of Anaesthesia, Wuhan University, China
Pamela Castro, Medical Student, Michigan State University
Dr. Shraddha Patel, PhD, Department of Surgery, Wayne State University
Pranav Shah, Medical Student, MSU (**MSU Travel Grant, PI: Vyas**) 2013
Anjali Garg, Medical Student, Michigan State University