

Accomplishments in position of responsibility:

2014: Chair: selection committee: Pediatrics Infectious Disease Faculty
2014: Lead: Academic program review East Lansing campus, Department of Pediatrics MSU
2013-ongoing: Elected member for the pediatric executive committee, MSU
2012-ongoing: Pediatric research day committee member with active involvement, MSU
2006: Social Medicine, Recruited patients for immunization, Health camp
2006: Polio Immunization Camp, New Delhi, India

Publications:

- 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)
- Vyas D, Castro P, Saadeh Y, Gandhi S, Lopez N, **Vyas A**. Gastrointestinal diseases and theranostic Nanoparticle, *Journal of Biomedical Nanotechnology*, 2014 (in press)
- 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- κ B activity in triple negative breast cancer. *Scientific Reports (Nature)* (Responded with minor revision)
- Joshi SS, **Vyas AK**, Vyas D, Kalla R: Reclassifying inflammatory bowel disease with capsule endoscopy in children *J Pediatr (Rio J)*. 2013;89: 514–5.
- Dinesh Vyas, Heidi E L'Esperance, **Arpita Vyas**: Stool therapy may become a preferred treatment of recurrent *Clostridium difficile* ? *World J Gastroenterol* 2013 August 7; 19(29): 4635-4637
- Vyas AK**, Lauren Flessner, Maria Payne, Patrick Y. Jay, Paul W. Hruz: Saxagliptin Improves Glucose Homeostasis but fails to improve survival in a murine model of dilated cardiomyopathy *Cardiovascular Endocrinology* September 2012
- Vyas D, **Vyas A**. Time to detoxify medical literature from Guidelines overdose, *World Journal of Gastroenterology*, 2012 18(26):3331-3335
- 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*. 2012 Dec 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.
- 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.
- Vyas A**, White NH: Case of Hypercalcemia Secondary to Hypervitaminosis A in a 6-Year-Old Boy with Autism. *Case Reports in Endocrinology*, Volume 2011 (2011), Article ID 424712
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- Remedi MS, Agapova SE, **Vyas AK**, Hruz PW, Nichols CG: Acute-Sulfonylurea Therapy at Disease Onset Can Cause Permanent Remission of KATP-Induced Diabetes. *Diabetes*, 2011 Aug 3.
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- Vyas A**, K-C Yang, D.Woo, PY Jay, PW Hruz: Exenatide improves glucose homeostasis and prolongs survival in a murine model of dilated cardiomyopathy. *PLoS One*. 2011 Feb 17;6(2):e17178
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- Vyas A**, White N. Case of hypercalcemia secondary to hypervitaminosis a in a 6-year-old boy with autism. *Case Reports in Endocrinology* Volume 2011, PMID: 22937283
- Vyas A**, Koster J, Anatoly Tzekov, PW Hruz: Effects of the HIV Proteas Inhibitor Ritonavir in GLUT4 knockout mice . *JBC Nov. 2010 ; 285 ; 36395-36400*
- Shepherd S, **Vyas A**, Arbelaez A: Pediatric Endocrinology. In Susan Dusenbery (ed.) pp 198-220. *Washington manual of Pediatrics*, St. Louis 2009

Vyas A, K-C Yang, D Woo, PY. Jay, PW Hruz: Beneficial effects of exenatide on glucose homeostasis and survival in ritonavir-treated mice with advanced dilated cardiomyopathy. *Antiviral therapy* 2009 14 suppl 2:A7

Book Chapter

Vyas, AK, Menon RK, 44.2.2: Growth hormone deficiency and resistance and 44.2.3: Growth hormone therapy
Section 44 on Disorders of the Endocrine Gland Postgraduate textbook of Pediatrics (2014)

Vyas A Adrenal Cancer. In Vyas D. (ed.). *Comprehensive Textbook of Surgery*, ISBN: 978-93-5025-052-5 Jaypee Brothers.

Vyas A, Thyroid Diseases. In Vyas D. (ed.). *Comprehensive Textbook of Surgery*, ISBN: 978-93-5025-052-5 Jaypee Brothers.

Manuscripts in preparations:

Hoang V¹, Jiangjiang Bi^{1,3}, MohanKumar SM², **Vyas AK¹** : Liraglutide improves hypertension and metabolic perturbation in a rat model of polycystic ovarian syndrome (Submitted to PLOS one)

Arpita K Vyas¹, Vanessa Hoang¹, Jiangjiang Bi¹, Vasantha Padmanabhan²: Developmental programming: Prenatal testosterone alters metabolic signaling and upregulates markers of cardiac stress in the left ventricular tissue of a sheep model of polycystic ovarian syndrome.

Justin Smith, **Vyas A**: Cardiovascular health in the pediatric population with polycystic ovarian syndrome

International/National Research Meetings Presentation

2010: Improved Glucose Homeostasis Prolongs Survival in a Murine Model of Advanced Dilated Cardiomyopathy. Invited for **podium presentation** at Pediatric Academic Society meeting in *Vancouver* May 1-4 2010

2010: Beneficial effect of exenatide on glucose homeostasis and survival in ritonavir treated mice with advanced dilated cardiomyopathy **Podium presentation**: 11 th international workshop on Adverse Drug reactions and Co-morbidities in HIV

2009: Differential effects of exenatide and captopril on glucose homeostasis and survival in a murine model of dilated cardiomyopathy. **Podium presentation**: Pediatric Midwest Society Conference 2009 Chicago IL

2009: Search for mutations in the PDP1 gene as a cause of pyruvate dehydrogenase phosphatase deficiency: **Podium presentation**: Pediatric Science day at Case Western Reserve University, 2009, Cleveland, OH

2004: 5 week retrospective study comparing the morbidity and mortality of 28-32 wk neonates in the neonatal unit in AIIMS, India to that in Jessops Hospital, Sheffield *Feb 2001* . **Podium presentation**: National Conference in Neonatology (Guwahati, India).

Poster presentation (National /International meetings):

2014: Altered cardiac insulin signaling in a sheep model of Polycystic Ovarian Syndrome: Endocrine Society

2014: Glucagon like peptide-1 agonist improves glucose homeostasis in a rat model of Polycystic Ovarian Syndrome: Society of gynecological investigation Florence, Italy

2012: *Saxagliptin Improves Glucose Tolerance but Fails to Improve Survival in a Murine model of Dilated Cardiomyopathy.* : American Diabetes Association:

Invited Talks:

2014: Cardiovascular consequences in PCOS: Pediatric research meeting Department of Pediatrics MSU

2013: Pediatric Board Review section for Michigan University campuses: Pediatric Endocrinology

2013: Precocious puberty: "To bloom or not to bloom that is the question" at the annual meeting American association of clinical endocrinologist

2013: Cardiovascular alteration in PCOS: Research rounds Endocrinology MSU

2012: Pediatric Grand Rounds: Current Era of Childhood Diabetes Mellitus: Recent Advances and Future Prospects Sparrow Hospital and MSU

2012: Pediatric Board Review section for Michigan University campuses: Pediatric Endocrinology