



David Gozal

Professor

Department of Pediatrics
School of Medicine

Director

Kosair Children's Hospital Research
Institute

Distinguished University Scholar

Research Activities

Dr. Gozal's research interests include bench to bedside approaches to the study of pediatric sleep disorders and respiratory control using sophisticated techniques such as gene arrays and protein chip technologies, and also more specific studies on cellular and animal models of sleep-disordered breathing. In addition, Dr. Gozal's research program conducts clinical, physiological, and epidemiological studies on sleep in children.

Grants Funded

Role: Principal Investigator

Title: Neurocognitive Function in Snoring Children

Funding Agency: National Heart Lung and Blood Institute

Direct Costs Funded: \$1,500,000

Role: Principal Investigator, University of Louisville Site

Title: Tonsillectomy and Adenoidectomy in Children with Sleep Disordered Breathing

Funding Agency: National Heart Lung and Blood Institute, Multi-Center Study

Direct Costs Funded: \$200,000 (UofL site)

Role: Co-Investigator

Title: Sleep and Sleep Disorders In Children **Funding Agency:** NIH, National Heart Lung and Blood Institute

Direct Costs Funded: \$1,250,000

Role: Principal Investigator

Title: Oxidative Stress in a Murine Model of Sleep Apnea

Funding Agency: National Heart Lung and Blood Institute

Direct Costs Funded: \$1,250,000

Peer-reviewed Publications

O'Brien LM, **Gozal D.** Potential usefulness of non-invasive autonomic monitoring in recognition of arousals in normal healthy children. *J. Clin. Sleep. Med.* 2007; 3:41-47.

Montgomery-Downs HE, **Gozal D.** Toddler behavior after polysomnography: effects of unintended partial sleep deprivation. *Sleep* 2006; 29:1282-1287.

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O'Brien LM, Holbrook CR, Jones VF, **Gozal D.** Ethnic differences in periodic leg movements in children. *Sleep Med* 2007;8:240-246.

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Tauman R, O'Brien LM, **Gozal D.** Hypoxemia and obesity modulate plasma C-reactive protein and interleukin 6 levels in snoring children. *Sleep & Breathing* 2007; 11:77-84.



Mediano O, Barcelo A, de la Pena M, **Gozal D**, Agusti A, Barbe F. Sleepiness and polysomnographic variables in sleep apnea patients. *Eur. J. Resp. Med.* 2007; 30:1396-1399.

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Dayyat E, Maarafeya MAM, Sans Capdevila O, Kheirandish-Gozal L, Montgomery-Downs HE, **Gozal D**. Nocturnal body position in sleeping children with and without obstructive sleep apnea. *Pediatr. Pulmonol.* 2007; 42:374-379.

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Lin M, Liu R, **Gozal D**, Wead WB, Chapleau MW, Cheng ZJ. Chronic intermittent hypoxia impairs baroreflex control of heart rate but enhances heart rate responses to vagal stimulation in anesthetized mice. *Am. J. Physiol. (Heart and Circul. Physiol.)* 2007; 293(2):H997-H1006.

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Gozal D, Sans Capdevila O, Kheirandish-Gozal L, McLaughlin Crabtree V. Apolipoprotein E ϵ 4 allele, neurocognitive dysfunction, and obstructive sleep apnea in school-aged children. *Neurology* 2007; 69:243-249.

Chi L, Ke Y, Luo C, **Gozal D**, Liu R. Depletion of reduced glutathione enhances motor neuron degeneration in vitro and in vivo. *Neuroscience.* 2007; 144:991-1003.

Lin S, Walker J, Xu L, **Gozal D**, Yu J. Behaviors of pulmonary sensory receptors during development of acute lung injury in the rabbit. *Exp Physiol.* 2007; 92:749-755.

Montgomery-Downs HE, Crabtree VM, Sans Capdevila O, **Gozal D**. Infant feeding methods and childhood sleep-disordered breathing. *Pediatrics* 2007; 120(5):1030-1035.



Hambrecht VS, Vlides PE, Row BW, **Gozal D**, Baghdoyan HA, Lydic R. Cholinergic and opioid activation of G proteins in rat hippocampus: modulation by hypoxia. *Hippocampus* 2007; 17(10):934-942.

Soukhova-O'Hare GK, Schmidt MH, Nozdrachev AD, **Gozal D**. A novel mouse model for assessment of sexual function. *Physiol Behav* 2007; 91:535-543.

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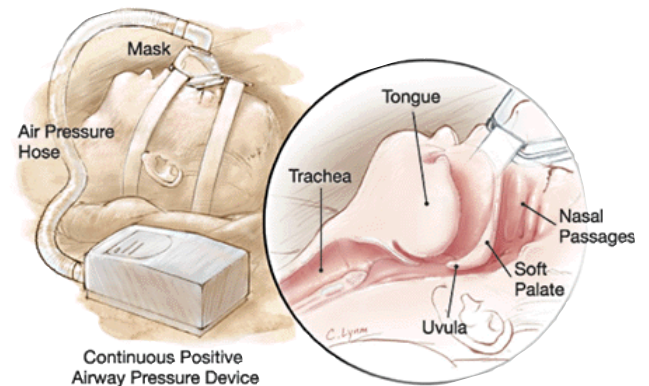
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