



- Associate Professor
- Division of Pulmonary, Critical Care & Sleep Medicine
- Department of Medicine

Conditions Treated:

- Bronchiolitis Obliterans
- Chronic Bronchitis
- Emphysema
- Chronic Cough
- Obstructive Sleep Apnea (OSA)

Research Areas:

- Emphysema

Programs & Services:

- COPD Program
- Division of Pulmonary, Critical Care and Sleep Medicine (Adult)
- Department of Medicine

COPD, Early onset non-A1AT deficiency emphysema.

Board Certification

Internal Medicine
Critical Care Medicine
Sleep Medicine
Pulmonary Disease

Education

1987 - 1994 University of the Witwatersrand, Johannesburg, South Africa, MBBCh, MD

Residency

1996 - Barnes-Jewish Hospital at Washington University School of Medicine, St. Louis, MO,
1998 Internal Medicine

Fellowship

1998 - Barnes-Jewish Hospital at Washington University School of Medicine, St. Louis, MO,
2002 Pulmonary, Critical Care, Sleep

Affiliations with the University of Colorado Denver

University of Colorado Denver, Associate Professor

Professional Memberships

ACCP

Awards & Recognition

Knowlton Incentive for Excellence Award ; Barnes-Jewish
1998: Hospital for most Outstanding Medicine Resident
1999: Barnes-Jewish Hospital Innovations in Health-care Grant
1999-2000: Rohne-Poulenc Rorer Critical Care Medicine Fellows Scholarship Program
1999-2001: National Institute of Health Training Grant
2001-2002: Glaxo-Smith-Kline Pulmonary Fellowship Award

Publications

Shapiro SD, Goldstein NM, Houghton AM, Kobayashi DK, Kelley D, Belaouaj A. Neutrophil elastase contributes to cigarette smoke-induced emphysema in mice. *Am J Pathol.* 2003;163(6):2329–2335. doi:10.1016/S0002-9440(10)63589-4

Doctor's Contact Information

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Locations

National Jewish Health Main Campus
1400 Jackson St.

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