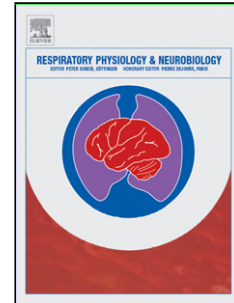


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A new method for noninvasive measurement of pulmonary gas exchange using expired gas

Running head: noninvasive measurement of gas exchange status

John B. West and G. Kim Prisk
Department of Medicine
University of California, San Diego
La Jolla, CA 92093-0623

Correspondence to: John B. West, M.D., Ph.D.
UCSD Department of Medicine 0623A
9500 Gilman Drive
La Jolla, CA 92093-0623
Telephone: 858-534-4192
Fax: 858-534-4812
E-mail: jwest@ucsd.edu

Highlights

- . We describe a new method of measuring the efficiency of pulmonary gas exchange using expired gas
- . This avoids arterial puncture which is invasive, requires technical expertise, and is expensive
- . The result is a more comprehensive assessment of gas exchange than that using ideal alveolar gas

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