99th Percentiles of Physiological Daily Inhalation Rates (m³/day) as a Function of Age for Individuals Aged 3 Weeks to 96 Years

(reflect the total daily oxygenation requirements in free-living people for an aggregate period of over 36,000 days for 2567 individuals)


Pierre Brochu¹, Jean-François Ducrè-Robitaille¹ and Jules Brodeur²

High 99th percentiles for pregnant and lactating females in Brochu et al. (2006b)

(a) 47.31 m³/day for overweight/obese females at the 36th gestation week
(b) 38.26 m³/day for underweight females at the 36th gestation week
(c) 35.88 m³/day for normal-weight females at the 22nd gestation week
(d) 32.94 m³/day for overweight/obese lactating females at the 6th postpartum week
(e) 31.80 m³/day for normal-weight lactating females at the 6th postpartum week
(f) 30.57 m³/day for underweight lactating females at the 6th postpartum week

¹ Affiliated to the Ministry of Sustainable Development, Environment and Parks.
² Affiliated to the Faculty of Medicine of the University of Montréal.

Graphic design, Francine Matte B. es Art
99th Percentiles of Physiological Daily Inhalation Rates (m^3/kg-day) as a Function of Age for Individuals Aged 3 Weeks to 96 Years

(reflect the total daily oxygenation requirements in free-living people for an aggregate period of over 36,000 days for 2567 individuals)

Pierre Brochu¹, Jean-François Ducré-Robitaille¹ and Jules Brodeur²

Highest 99th percentiles for pregnant and lactating females in Brochu et al. (2006b)

- (a) 0.647 m^3/kg-day for underweight lactating females at the 27th postpartum week
- (b) 0.622 m^3/kg-day for underweight females at the 9th gestation week
- (c) 0.594 m^3/kg-day for normal-weight females at the 22nd gestation week
- (d) 0.560 m^3/kg-day for normal-weight lactating females at the 27th postpartum week
- (e) 0.521 m^3/kg-day for overweight/obese females at the 36th gestation week
- (f) 0.464 m^3/kg-day for overweight/obese lactating females at the 27th postpartum week

Physiological Daily Inhalation Rates (m^3/kg-day)

- 0.956 m^3/kg-day for newborns aged 3 weeks (healthy and neither underweight nor overweight)
- 0.725 m^3/kg-day for boys aged 2.6 months
- 0.286 m^3/kg-day for Federal Register (1980)

Age (years)

1 Affiliated to the Ministry of Sustainable Development, Environment and Parks.
2 Affiliated to the Faculty of Medicine of the University of Montreal.

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