



## Effects of respiratory stress on plasma prolactin concentration

By Sandra Rojas Vega

Diplom.De Mrz 2002, 2002. Taschenbuch. Book Condition: Neu. 210x148x5 mm. This item is printed on demand - Print on Demand Titel. Neuware - Doctoral Thesis / Dissertation from the year 2001 in the subject Medicine - Public Health, grade: 1,0, Sport Academy Cologne (Sportwissenschaften), language: English, abstract: Inhaltsangabe: Abstract: Apart from its actions on reproductive processes, prolactin (PRL) plays a role in maintaining the constancy of the internal milieu by regulation of the homeostatic processes. The present investigation focuses predominantly on the relationship between ventilatory acid-base imbalances and PRL secretion. In four studies different forms of respiratory stress were selected: inhalation of increased oxygen concentration, inhalation of increased carbon dioxide concentration, voluntary hyperventilation and repeated high intensity exercise. It was hypothezised that hyperoxia, intensive exercise and inhalation of increased CO2 concentration cause an augmentation of CO2 partial pressure at the central chemoreceptors of the brain, leading to an increase of ventilatory drive based on serotonergic system activation and thus enhanced PRL secretion. In contrast, increased CO2 elimination due to voluntary hyperventilation should not affect PRL secretion because the decrease of CO2 partial pressure does not affect PRL release per se, but only after serotonergic system activation due to initial hypercapnia. From...



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