



## 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 hypothesized that hyperoxia, intensive exercise and inhalation of increased CO<sub>2</sub> concentration cause an augmentation of CO<sub>2</sub> 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 CO<sub>2</sub> elimination due to voluntary hyperventilation should not affect PRL secretion because the decrease of CO<sub>2</sub> partial pressure does not affect PRL release per se, but only after serotonergic system activation due to initial hypercapnia. From...



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