



The neurohypophyseal hormone oxytocin and eating behaviors: a narrative review

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Abstract

Background The neuropeptide oxytocin (OT) is crucial in several conditions, such as lactation, parturition, mother-infant interaction, and psychosocial function. Moreover, OT may be involved in the regulation of eating behaviors.

Methods This review briefly summarizes data concerning the role of OT in eating behaviors. Appropriate keywords and medical subject headings were identified and searched for in PubMed/MEDLINE. References of original articles and reviews were screened, examined, and selected.

Results Hypothalamic OT-secreting neurons project to different cerebral areas controlling eating behaviors, such as the amygdala, area postrema, nucleus of the solitary tract, and dorsal motor nucleus of the vagus nerve. Intracerebral/ventricular OT administration decreases food intake and body weight in wild and genetically obese rats. OT may alter food intake and the quality of meals, especially carbohydrates and sweets, in humans.

Discussion OT may play a role in the pathophysiology of eating disorders with potential therapeutic perspectives. In obese patients and those with certain eating disorders, such as bulimia nervosa or binge/compulsive eating, OT may reduce appetite and caloric consumption. Conversely, OT administered to patients with anorexia nervosa may paradoxically stimulate appetite, possibly by lowering anxiety which usually complicates the management of these patients. Nevertheless, OT administration (e.g., intranasal route) is not always associated with clinical benefit, probably because intranasally administered OT fails to achieve therapeutic intracerebral levels of the hormone.

Conclusion OT administration could play a therapeutic role in managing eating disorders and disordered eating. However, specific studies are needed to clarify this issue with regard to dose-finding and route and administration time.

Keywords Oxytocin · Oxytocin receptor · Food intake · Eating behaviors · Eating disorder · Obesity · Disordered eating

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Abbreviations

AP	Area postrema
DMV	Dorsal motor nucleus of the vagus nerve
DVC	Dorsal vagal complex
GLP-1	Glucagon-like peptide 1
MCN	Magnocellular neurosecretory neurons
NA	Noradrenaline
NTS	Nucleus of the solitary tract
OT	Oxytocin
OTR	Oxytocin receptor
PVN	Paraventricular nuclei neurons
SON	Supraoptic
VMH	Ventromedial nucleus of the hypothalamus

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web pedigree analysis activity answer key q1 d is the correct answer q2 b is the correct answer why because people affected by this disease are surviving at least to the age they are able to have children q3 c is the correct answer q4

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web pedigree analysis key takeaways pedigrees can help us to analyze the inheritance patterns of many traits pedigrees are typically used in the setting of genetic disorders the most common inheritance patterns include autosomal recessive autosomal dominant and x linked recessive some other less common inheritance patterns include x linked

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web interpreting a human pedigree use the pedigree below to answer 1 in a pedigree a square represents a male if it is darkened he has hemophilia if clear he had normal blood clotting a how many males are there 8 b how many males have hemophilia 3 a circle represents a female if it is darkened she has hemophilia if open she is normal

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web the conclusions about inheritance above can be used to help analyze pedigrees for each pedigree below tell if the trait can be autosomal dominant autosomal recessive and x linked recessive if the pedigree cannot fit a mode of inheritance tell why record your answers in the table on the next page pedigree a pedigree b 2

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web this blog post is going to explain how to solve pedigree problems easily this lecture explains about the different rules of pedigree analysis it explains how to find a pedigree based on characteristics with examples as dominant pedigree recessive pedigree and x linked pedigree x linked recessive trait male offspring are affected more 1

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