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## Middle lobe - (Hypophysis) - Hormones

It secretes MSH / Intermedin in two intermediate

It controls Melanin synthesis in Mammals. Melano-  
-cyte stimulating hormone found in all vertebrate  
groups, but hormone appears to be functional-  
only in teleosthermic and -thermic, in lower  
vertebrates, it controls dispersion / or spreading of  
Melanin pigment in Melanocyte or Melanophore  
causing darkening of colour. Although MSH doesn't  
seem to play an important role in the survival -  
behaviour of human melanocyte, but under -  
certain condition such as pregnancy, an increase  
in its secretion doesn't cause severe darkening  
of skin. Normally large number of Melanocytes  
are present in the human skin, where they  
are responsible for moles & freckles.

## Hormones of the posterior pituitary or Neuro- hypophysis (Neurohormones)

It secretes two hormones.

- ① ADH (Antidiuretic hormone) / Vasopressin / 加压素
- ② Oxytocin / 催产素

ADH: - It is secreted by neurosecretory cells  
of Hypothalamus and stored & released by  
Vans Nerve. It influences water - balance  
of the animal by reducing its output - urine.  
It exerts a direct effect upon the facultative  
reabsorption of water by kidney tubules.  
- It also increases Pol. Its hypersecretion  
increases urine output & thirst, i.e.

Diabetes insipidus -

Oxytocin / Ocitocin / Birth hormone / Milk ejection hormone.

It is also secreted by Neurosecretory cells of Hypothalamus & stored & released by paraventricular nucleus like ADH. It produces contraction of uterine muscles @ to facilitate the ascent of spermatozoa after mating / intercourse / Coitus. @ for causing easy parturition (child birth) In late pregnancy, the uterus becomes very sensitive to oxytocin. The amount is increased during labour pain. @ facilitates the flow of milk from mammary glands / Breasts (Breasts). It is also called "Milk ejection" and "letting down" of milk due to suckling by infants. It is also called Birth hormone & Milk ejection hormone. It is used by "Milk Man".

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