



Role of Stress in Hair loss

- Hair follicles have rich sensory & autonomic innervation
- Collar of nerves around the outer root sheath between the sebaceous gland and the insertion of the arrector pili muscle & in the dermal papilla
- Experimental use of nor adrenaline depleting agents increases anagen hair growth
- Neurohormones, neurotransmitters, neuropeptides, calcitonin, gene-related peptide & cytokines released in stress response reduce hair growth
- Glucocorticoids released in stress induce apoptosis and involution of the hair follicle
- Substance P inhibits hair shaft elongation and induces catagen phase of the hair follicles