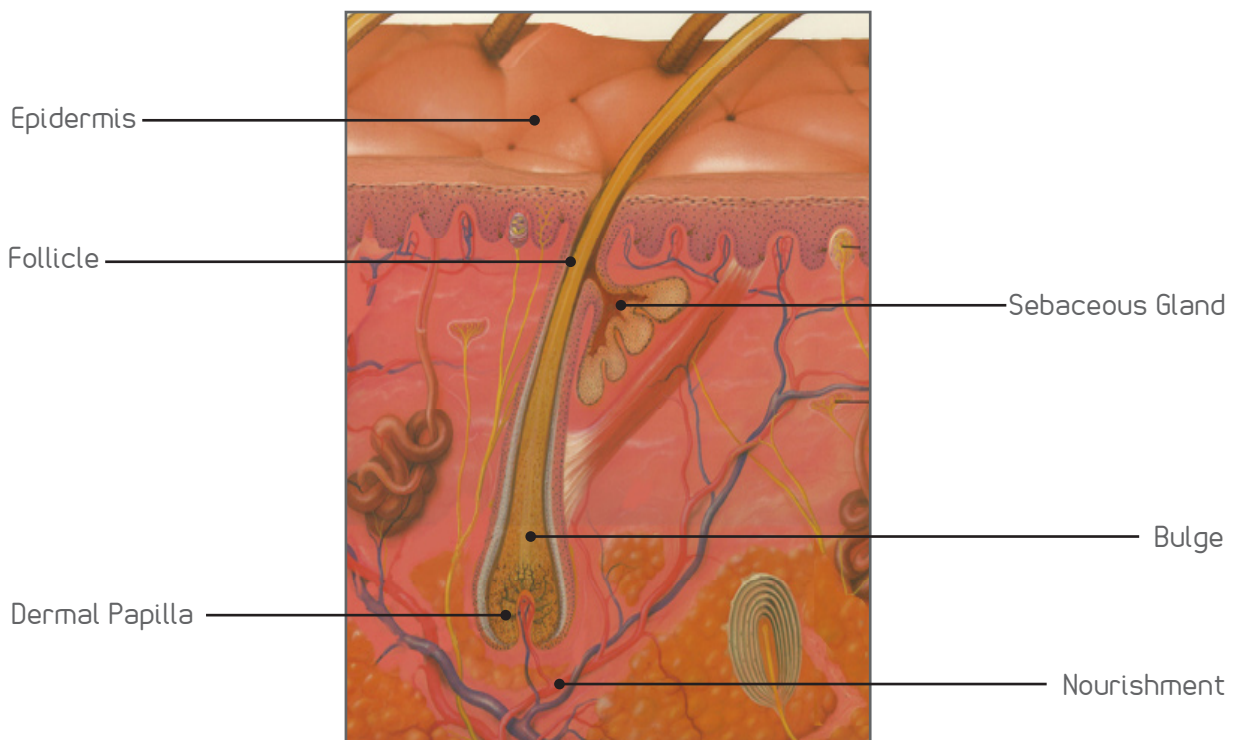


Hair Growth Cycle

The Hair Growth Cycle plays a major role in your individual laser hair removal treatment course. Excessive hair growth can be hereditary and/or caused from stress, medication and hormonal changes etc. For women major hair growth contributors are puberty, pregnancy and menopause. Common areas for hormonal hair to appear are the face, nipples etc. For men, hormonal influences cause hair to appear mainly on the shoulders.

Hair Root Structure

Below the surface of the skin is the hair root, which is enclosed within a hair follicle. At the base of the hair follicle is the dermal papilla. The dermal papilla is fed by the blood stream, which carries nourishment to produce new hair.



Hair Growth Cycle

Hair follicles grow in repeated cycles. One cycle can be broken down into three phases.

1. Anagen - Growth Phase
2. Catagen - Transitional phase
3. Telogen - Resting Phase

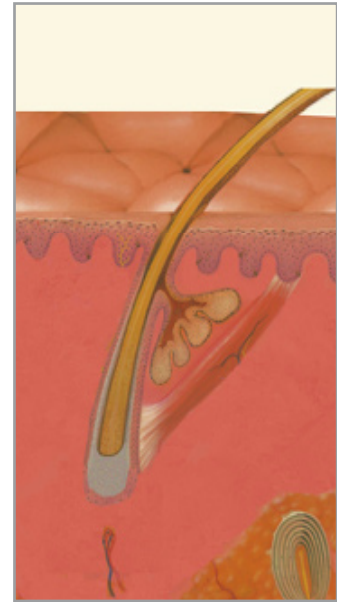
Each hair passes through the phases independent of the neighboring hairs.



Anagen

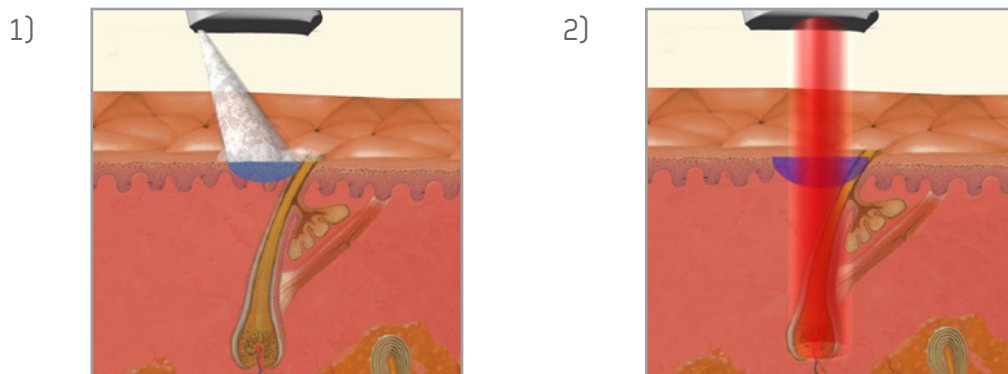


Catagen



Telogen

The **Anagen**/ Growth Phase is the ideal stage for laser hair removal treatments to be completed. The hair shaft, which is attached to the dermal papilla, is nourished with protein, keratinized cells and melanin. It is at this stage where the laser is able to effectively target the hair root and disable the dermal papilla's nourishment supply to prevent future hair growth. At the end of the Anagen phase, biological activities cause the follicle to enter the Catagen phase.



(1) Candela's patented Dynamic Cooling Device (DCD) provides ultimate epidermal cooling for increased client safety and comfort.

(2) Monochromatic, collimated and coherent laser beam targets hair root.

The **Catagen**/ Transitional Phase is not the ideal phase for laser hair removal treatments, as structural and chemical activities cause the hair to detach from the dermal papilla. Treatments are possible, however less effective as the main goal is to target the hair's nourishment supply sourced from the dermal papilla into the hair root.

The **Telogen**/ Resting Phase is not the ideal phase for laser hair removal treatments as the hair is not developing or growing. As the hair root is not receiving nourishments from the dermal papilla the laser is unable to target the melanin in the hair shaft to disconnect the hair root from the dermal papilla. This unpredictable phase can be as short as a few days or as long as a few years.

Overall, it is highly recommended to complete laser hair reduction treatments during the Anagen/ Growth Phase.

Your Skin and Laser Specialist will discuss your individual treatment plan for you during your **FREE Consultation and Test Patch.**