

Scalp cooling device "Cell Guard"

- Japan's first domestically produced scalp cooling device
- **Silicone** cooling cap developed to fit the shape of Japanese people's heads
- Stable cooling of the scalp at optimum temperature
- Easy operation with Japanese touch panel



(1) Prevention of Hair Loss and Alopecia during Anticancer Drug Treatment

One of the major concerns of patients after anticancer drug administration is hair loss. In particular, female patients tend to become mentally depressed due to **hair loss**.



Some patients even refuse anticancer drug treatment because of hair loss, and there is a need for measures to improve their quality of life (**QOL**).

(2) What is a scalp cooling device?

When administering anticancer drugs (before and after administration), patients are asked to wear a silicone cap linked to a cooling unit. This device cools the scalp with a cooling solution that travels inside the silicone cap, constricting blood vessels to suppress blood flow and drug circulation, thereby reducing hair loss as a side effect.



Furthermore, by cooling the scalp, the effect of the drug on papilla cells, hair matrix cells, and hair root sheath cells can be reduced or inhibited, leading to prevention of hair loss and alopecia.

(3) Features of "Cell Guard"

◆First scalp cooling device produced in Japan

The first scalp cooling device developed and manufactured in Japan by Reve21 after conducting clinical trials in Japan.

Cooling cap that fits Japanese people's head shape

Analyzing Japanese head shape data, we developed a cooling cap that fits Japanese (Asian) people.

◆Scalp adhesion system to further enhance adhesion

To further enhance the adhesiveness of the cooling cap to the scalp, we have developed a unique inner cap. The three-layered scalp adherence system combined with the silicone cap and outer cap is expected to further improve cooling efficiency and inhibit hair loss.

◆Cooling performance that can be used by two people at the same time

The cooling unit, which circulates cooling liquid inside the cooling cap, is equipped with a high-power type with sufficient margin for cooling. The cooler can maintain stable low temperatures even when used on two patients at the same time.

This cooler is the heart of this system and is an important point of the cooling performance.

◆Easy-to-use operation panel in Japanese

The operation panel is a touch panel type with Japanese notation so that anyone can use it easily. The friendly interface makes it intuitive and easy to use.