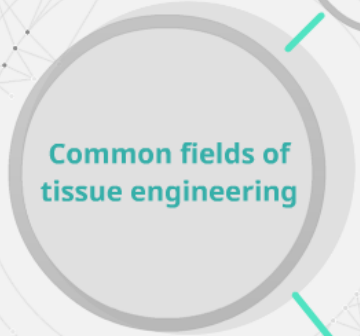


**By: Hasan Daloo**

**The Great University of Katip Çelebi  
BioMedical Engineering**

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**Tengion: Bringing Regenerative Medicine to Life**

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**Common fields of tissue engineering**

**Cartilage Tissue Engineering.**



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**Skin Tissue Engineering**

**Limitation**

- Relatively long average wait time
- The cost of the treatment and the amount of time it takes makes the process cost inefficient.
- Skin grafting remains the most popular treatment for skin replacement

**Bone Tissue Engineering**



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**Skin Tissue Engineering**

The skin loss is one of the oldest and still not totally resolved problems in surgical field.

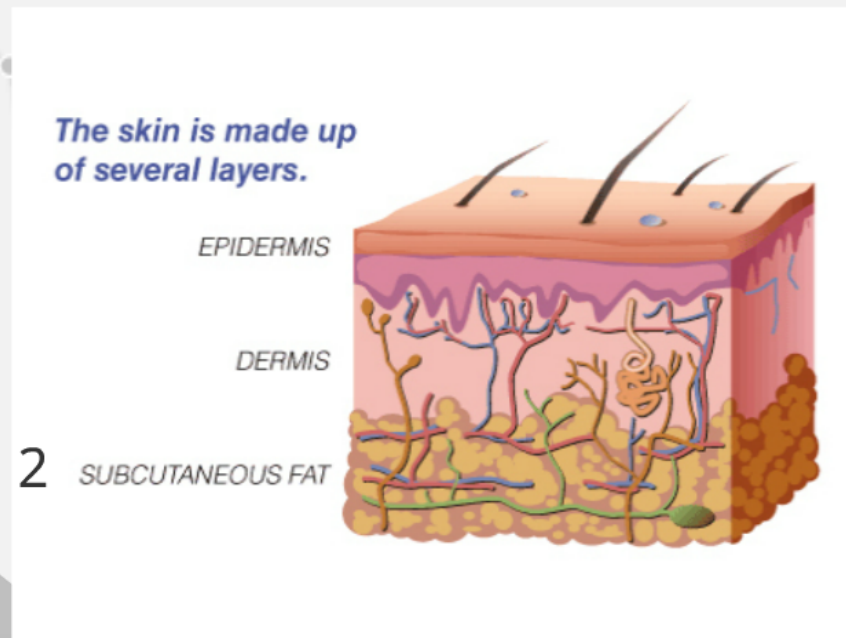
The skin is representing about 10% of the body mass.

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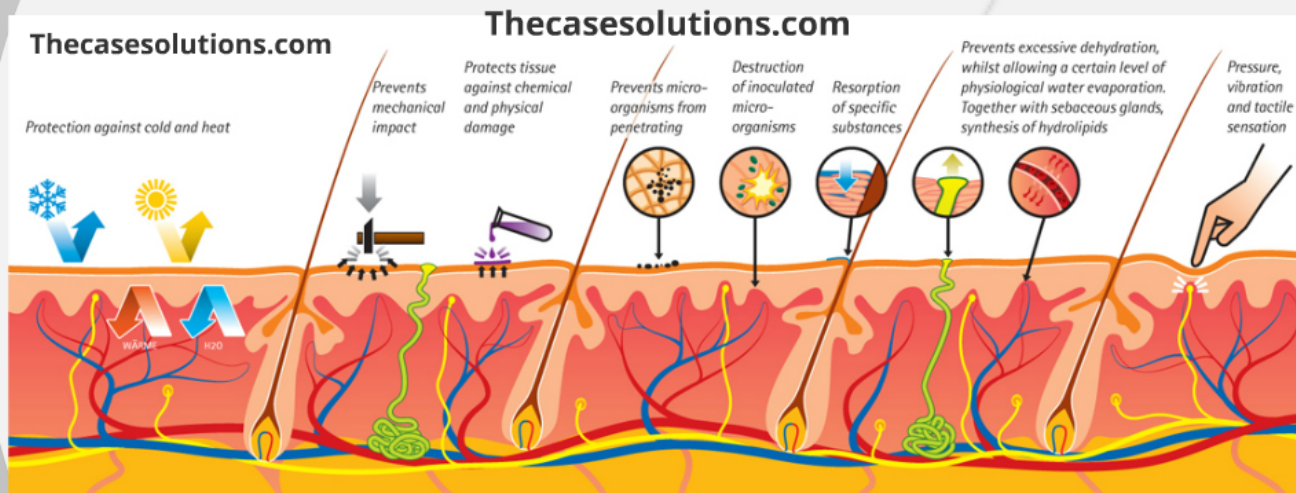
The skin is composed of three distinct layers: the epidermis, the dermis, and the subcutaneous fat, sometimes called the hypodermis.

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# Function of the Skin

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Protection against cold and heat

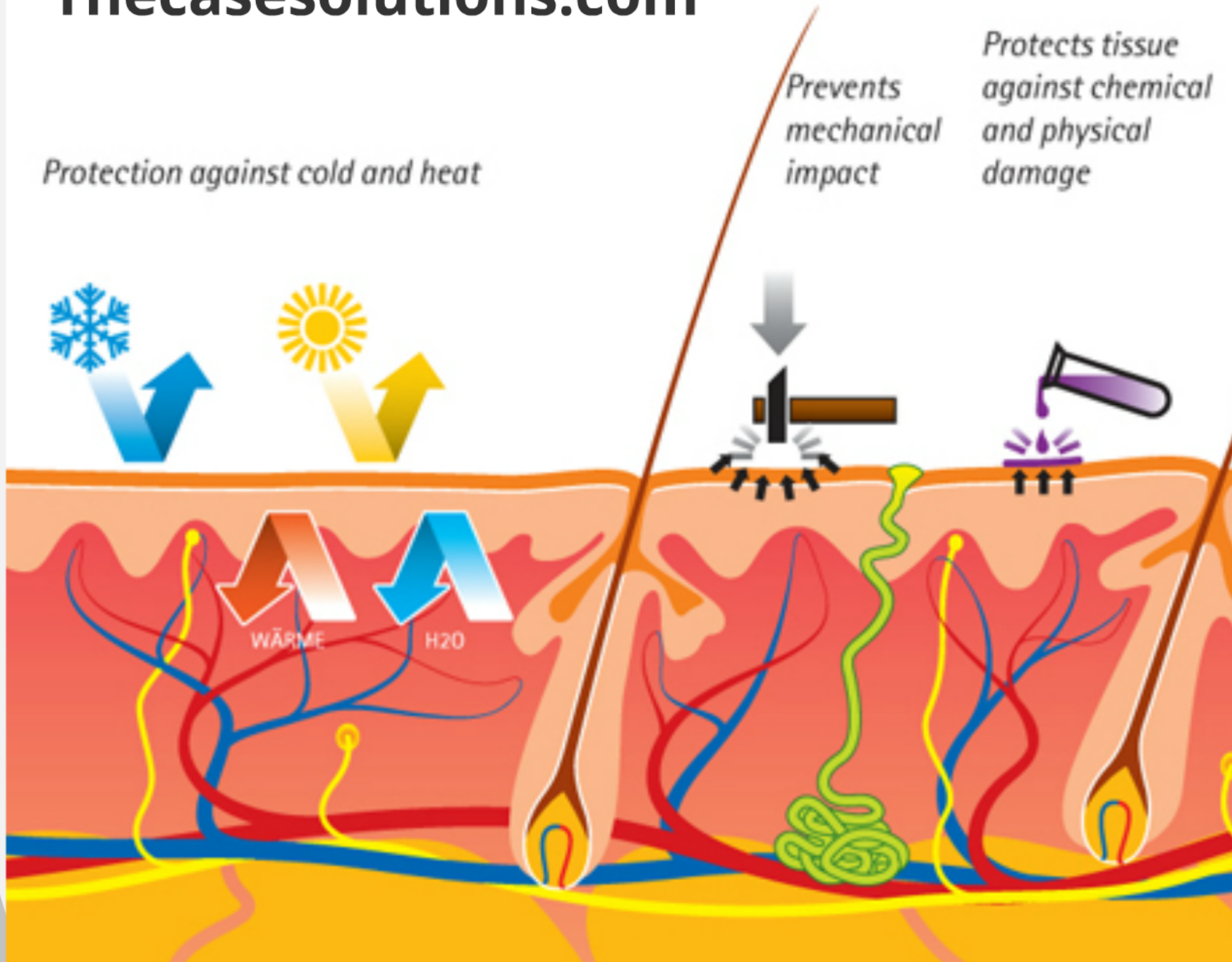


WÄRME  
H<sub>2</sub>O

Prevents  
mechanical  
impact



Protects tissue  
against chemical  
and physical  
damage





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