

Skin transplantation

Skin transplantation is the most common type of transplantation.

Use: treatment of burns, loss injuries, radical removal of skin tumors.

Transplants by donor

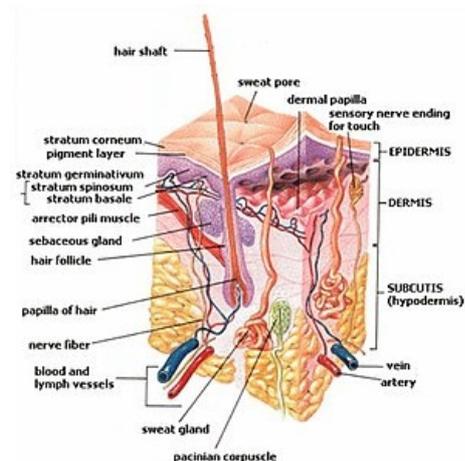
- **Autotransplantation** - the collection site depends on the extent and location of the defect at the transplant site, more distant → greater changes in the quality and color of the skin → the transplant is taken from the place closest to the defect bowl; large defects - skin from the abdomen (in full thickness), buttocks, etc.
- **Allotransplantation** - the best temporary biological cover for open wounds, hl. treatment of extensive burns - reduces the loss of fluids, proteins and electrolytes from the wound, supports the regeneration of the epithelium; exchange within 5 days; collection from living donors (DK)
- **Xenotransplantation** - skin from pigs - convenient temporary cover - burns

Transplants according to skin thickness

- **Dermoepidermal membrane** - the thinnest, heals well, the disadvantage is the tendency to wrinkle, the defect created after sampling spontaneously epithelizes
- **Dermoepidermal graft** - epidermis + thicker layer of coria, high-quality cover, healing within 14 days
- **Full-thickness skin transplant** - the most valuable, all layers of skin without subcutaneous fat, applied only to non-infected areas, the defect is treated with a suture after removal

Sampling technique

- *Small grafts* - with a scalpel
- *Larger transplants* - Wattson knife, electrodermatome, air-dermatome (→ dermoepidermal grafts)
- *Netted (mesh) transplants* - coverage of large areas with a lack of healthy skin, eyes of different sizes → polyps. increase in the area of transferred skin + free flow of transudate



Skin structure

Indications for skin transplantation

- Burns - allotransplants + xenotransplants (temporary) → autotransplantation (later)
- Traumatology (skin loss) + post-traumatic conditions (scar tissue replacement)
- Chronic skin defects (leg ulcers, non-healing wounds, more extensive excision of skin tumors)

Links

Related Articles

- Transplantation
- Transplant laws
- Kindney Transplant
- Lung Transplantation
- Skin

References

- MĚŠŤÁK, Jan. *Introduction to plastic surgery*. 1. edition. Prague : Prague: Charles University in Prague - Karolinum Publishing House, 2005. 125 pp. ISBN 80-246-1150-3.