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| **Nerve grafts and nerve conduits materials**   |  | | --- | | **Graft** | | **Autologous tissue grafts** | | 1. Nerve grafts (Gold Standard) | | 2. vein grafts | | 3. Muscle grafts | | 4. Epineurial sheaths | | 5. Tendon grafts | |  | | **Nonautologous/acellular grafts** | | 1. Immunosuppression with allografts | | 2. Acellular allografts and xenografts | | Thermal decellularization | | Radiation treatment | | Chemical decellularization | | 3. Small intestinal submucosa (SIS) | | 4. Human amnion | |  | | **Natural-based materials** | | 1. Extracellular matrix (ECM) protein based materials | | Fibronectin | | Laminin | | Collagen | | 2. Hyaluronic acid-based materials | | 3. Fibrin/fibrinogen | | 4. Other materials (alginate, agarose …) | |  | | **Syntetic materials** | | 1. Biodegradable syntetic materials | | Poly(lactic acid) (PLA) | | Poly(lactic-co-glycolic acid) (PLGA) | | Poly(caprolactone) | | Poly(urethane) | | Poly(organo)phosphazene | | Poly(3-hydroxybutyrate) | | Poly(ethylene glycol) "glue" | | Biodegradable glass | | 2. Electrically active materials | | Piezoelectric | | Ellectricaly conducing | | 3. Nonbiodegradable synthetic materials | | Silicone | | Gore-Tex or ePTFE | |

Tabela 1.4.1 – Enxertos nervosos e materiais condutores de nervos.

Adaptada de Christine Schmidt (2003), pág. 301.