Table.S1

Therapeutic effects of chitosan and its derivatives in soft tissue diseases

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| --- | --- | --- |
| **Functions** | **Chitosan** | **Ref** |
| Promotion of wound healing | Impregnating chitosan hydrogels with silver nanoparticles | (1) |
|  | Chitosan-immobilized ficin | (2) |
|  | Vaccinin-chitosan nanoparticles | (3) |
|  | Curcumin-loaded chitosan membranes | (4) |
|  | Chitosan sulfate | (5) |
| Skin regeneration | Hydrogels synthesized from chitosan and cellulose | (6) |
|  | Lithium chloride–loaded chitosan hydrogels | (7) |
|  | Chitosan exosomes derived from overexpressed miRNA-126 synovial mesenchymal stem cells | (8) |
| Tendon regeneration | Poly (l-lactic acid) nanofibers | (9) |
|  | Asymmetric chitosan scaffolds | (10) |
|  | Polycaprolactone/chitosan nanofiber biocomposite | (11) |
| Nerve regeneration | Chitosan nanofiber hydrogels | (12) |
|  | Chitosan nerve catheter | (13) |
|  | Heparin/chitosan scaffolds | (14) |
| Promotion of coagulation | Composite sponges containing alginate/carboxymethyl chitosan/ kangfuxin | (15) |
|  | Carboxymethyl chitosan sponges grafted with marine collagen peptides | (16) |
|  | Chitosan/diatom-biosilica aerogels | (17) |
|  | Chitosan/cellulose composite sponges with LiOH/KOH/urea solvent | (18) |
| Targeted therapy for malignancy | Methylglyoxal-conjugated chitosan nanoparticles | (19, 20) |
|  | Chitosan | (21, 22) |
|  | Low-molecular-weight chitosan | (23) |

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