

Implantable Biomaterials Global Market - Forecast to 2022

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Abstracts

A biomaterial is any substance of metallic, polymer, ceramic or natural origin that is suitable for introducing into living tissue as an implant without adversely affecting the patient. The biomaterial implants have been enormously successful and have enhanced the life of millions of patients. There is continuous ongoing research to develop next generation advanced biomaterials like bioabsorbable materials, bioactive and smart biomaterials, shape memory biomaterials etc. Next generation of biomaterials will have better prospect from the current research and innovations taking place in biomaterials field.

This report concentrates on biomaterials that are used in the manufacturing of implant devices. The non-implant devices like catheters, guide wires and biomaterials in tissue engineering are not considered in implantable biomaterials report. Also, autografts and xenograft are not taken into account, only mass manufacture biomaterials are described in the report.

The Implantable Biomaterials market is classified based on type of materials, application, and geography. By material type, the market is segmented into Metal and Metal alloys, Synthetic Polymers, Ceramics, Natural biomaterials and Composites. By application, implantable biomaterials market is segmented into Cardiovascular, Orthopedic, Dental, Plastic Surgery, Wound Healing, Ophthalmology, Neurology and other Applications. Geographical wise, the transplantation market is segmented into North America, Europe, Asia- Pacific and Rest of the world.

Among the implantable biomaterials by type, the synthetic polymers are dominating the market by occupying a largest share and synthetic polymers are expected to grow at a highest CAGR from 2015 to 2022. The synthetic polymers market by type is segmented

into Polyetheretherketone, polytetrafluoroethylene, Polyethylene terephthalate, Polyethylene, Polymethylmethacrylate, Polyurethanes, Silicone, Resorbable polymers, Hydrogels and others. Among these, Polyetheretherketone accounts for major share in synthetic polymers segment and Resorbable polymers are expected to grow at strong CAGR from 2016 to 2023 . By applications, the market is segmented into Cardiovascular, Orthopedic, Dental, Plastic Surgery, Wound Healing, Ophthalmology, Neurology and other Applications. Among these, Orthopedic application accounts for largest share of application market and Wound healing is growing at strong CAGR from 2016 to 2023.

The global implantable biomaterials market is expected to grow at single digit CAGR to reach \$21,124.2 million by 2022. The factors driving the growth of this market are increasing ageing population, increase in Research and development investments, increasing applications of biomaterials, growing demand for plastic surgery, and reimbursements offered by Center for Medicare and Medicaid Services. However, stringent regulatory processes for approval of biomaterials and biomaterials based implant devices and limitations of biomaterials like complications due to implant rejection, cytotoxicity, and corrosion of biomaterials implant are hampering the growth of implantable biomaterials market.

The implantable biomaterials market is a highly fragmented market. Major players in Biomaterial market include Solvay Advanced Polymers, LLC (Belgium), Evonik Industries AG (Germany), Carpenter Technology Corporation (U.S.), DSM Biomedical, Inc. (Royal DSM) (Netherlands), Johnson Matthey Plc (U.K.), Morgan Advanced Materials plc (U.K.), Materion (U.S.), Victrex PLC (Invibio Biomaterial Solutions) (U.K.) and Collagen solutions (U.K.), Corbion N.V. (Netherlands), Landec Corporation (U.S.).

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