Global Medical Smart Textile Market: Information by Technology (Wearable Technology, Textile Sensors and others), by Application (Bio-Monitoring, Surgery, Therapy and Wellness and others), by End User (Hospitals and Clinics and others) and by Region (Americas, Europe, Asia-Pacific and the Middle East & Africa) - Forecast till 2027

The Global Medical Smart Textile Market is expected to register a CAGR of 7.51% to reach 2,105.32 Million by 2027. Medical smart textile is a new field of research and is most widely used in the healthcare sector. Sensors are integrated into the textiles, in continuous contact with the human body, and could capture physiological changes occurring within the body. The demand for medical smart textiles is increasing due to the rising burden of diseases, evolving methods of diagnosis, and extensive use of wearable medical devices. These factors are expected to fuel the growth of the global medical smart textile market. However, the high cost of smart textiles is anticipated to hamper the market growth.

Market Dynamics

The rising burden of diseases is expected to fuel the growth of the global medical smart textile market during the forecast period. According to the Global Burden of Disease Study in 2017, from 1990 to 2017, the leading causes of premature deaths were neonatal disorders, ischemic heart disease, lower respiratory infections, diarrhea, chronic obstructive pulmonary disease (COPD), and strokes. These diseases accounted for more than 1 million deaths worldwide in 2017. Additionally, the Global Burden of Disease Study in 2017, stated that there was a change in the mortality rate due to excess drug-resistant tuberculosis from 2007 to 2017.

Global Medical Smart Textile Market Share, by End User, 2018 (%)

Source: MRFR Analysis

Segmentation

The global medical smart textile market has been segmented by technology, application, and end user. The market, based on technology, has been divided into wearable technology, textile sensors, and others. Based on application, the medical smart textile market has been segregated into bio-monitoring, surgery, therapy, and wellness and others. The global medical smart textile market, based on end user, has been bifurcated into hospitals and clinics and others. The hospitals and clinics held a share of 67.3% in 2018.
Regional Analysis

The global medical smart textile market, based on region, has been divided into the Americas, Europe, Asia-Pacific, and the Middle East & Africa. The Americas is likely to dominate the global medical smart textile market. The growth in this region can be attributed to the extensive use of medical devices. Moreover, applications in medical engineering for monitoring vital health indicators help in maximizing the growth of the market in this region. Europe held a substantial share in the global medical smart textile market. This can be attributed to the rising government expenditure to promote the healthcare sector in the region. For instance, according to Eurostat, in 2016, healthcare expenditure per person was EUR 5,000 or higher in three EU member states that are Luxembourg (EUR 5,600), Sweden (EUR 5,100) and Denmark (EUR 5,000), as the per-person healthcare expenditure is very high in Europe and is continuously growing. Asia-Pacific is estimated to be the fastest-growing region in the global market. This is due to the extensive demand for advanced medical devices and increasing applications of technology in the early diagnosis of diseases fueling the growth of the medical smart textile market in the region. The medical smart textile market in the Middle East & Africa is expected to witness a modest market growth rate from 2019 to 2027. The Middle East would lead the market growth in this region. Increasing awareness about medical smart textiles is expected to drive market growth during the assessment period.

Key Players

The prominent players in the global medical smart textile market are Schoeller Switzerland, Vista Medical Ltd, Sensoria Inc., Gentherm, Siren, Pireta, AiQ Smart Clothing, Camira Fabrics, Carre Technologies Inc, and 3teks.

Some of the key strategies followed by players operating in the global medical smart textile market were innovation, product development, and acquisition & mergers.

- **In February 2019**, Gentherm signed a partnership agreement with ThermoAnalytics, Inc., a leading thermal modeling software development firm for the advancement of human thermal comfort predictions.

- **In June 2019**, Pireta developed a unique process that adds conductive metallic pattern directly into textile clothing without changing the fabric feel. These wearable smart garments and e-textile enabled physicians to diagnose diseases in their early stages and provide better treatment options. The launch of this device would help the company to increase its revenue in the future.

- **In July 2019**, Camira Fabric acquired Luna Textiles, a US-based company that manufactures fabric for healthcare, hospitality, and other lounge seating purposes. This acquisition helped Camira Fabric to increase its revenue.

Market Segmentation
Global Medical Smart Textile Market, by Technology
- Wearable Technology
- Textile Sensors
- Others

Global Medical Smart Textile Market, by Application
- Bio-Monitoring
- Surgery
- Therapy and Wellness
- Others

Global Medical Smart Textile Market, by End User
- Hospitals and Clinics
- Others

Global Medical Smart Textile Market, by Region
- Americas
  - North America
    - US
    - Canada
  - Latin America
- Europe
  - Western Europe
    - Germany
    - UK
    - France
    - Italy
    - Spain
    - Rest of Western Europe
  - Eastern Europe
- Asia-Pacific
  - Japan
  - China
  - India
  - Australia
  - South Korea
  - Rest of Asia-Pacific
- Middle East & Africa
  - Middle East
  - Africa

Available Additional Customizations
Company Profiles
- Koninklijke Ten Cate N.V
- I. DuPont De Nemours
- GOOGLE INC.
- OHMATEX
- ADIDAS

Intended Audience
- Pharmaceutical companies
- Contract research manufacturing organizations
- Research & development organizations
- Academic institutes
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