



Market Analysis

4th International Conference on Craniofacial Surgery

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Market Analysis

[Conference Series Ltd](#) extends its welcome to “4th International Conference on Craniofacial Surgery” during August 24-25, 2020 at Barcelona Spain. The main focus and theme of the conference is “Accelerating Innovations & fostering advances in Craniofacial Surgery”.

[Craniofacial Surgery Conference](#) brings together individuals who have an interest in different fields of surgery like renowned scientists, Physicians, Surgeons, Professors, Instrumentalists, Medical and Industrial professions, young researchers, students and Business delegates under a single roof providing an opportunity to share the knowledge and scientific progress in the field of Craniofacial Surgery shaping the future research.

[Craniofacial Surgery 2020](#) is a two-day conference concentrating on Interactive Sessions & Sub-sessions emphasized on innovation and new trends in surgery, keynote lectures from Senior Scientists and industry experts, panel discussions, poster competitions and Young Researcher Forum. The conference program will feature well-known and thought to provoke speakers to interactive discussion sessions.

Market Analysis 2020

The global [Craniomaxillofacial](#) (CMF) devices market is expected to reach USD 2.68 billion by 2025, according to a new report by Grand View Research, Inc. Increasing incidences of facial fractures and demand for minimally invasive surgery for reconstruction are expected to drive the CMF devices market over the forecast period. The associated benefits with minimally invasive reconstructive surgeries such as faster recovery, minimal incision to the body, and less complications associated with the surgery are anticipated to contribute further toward the market growth.

The introduction of technologically advanced procedures such as robotic arm assisted CMF surgery and [bioabsorbable](#) implants for cranial fixation are expected to drive the demand for CMF systems. The advancement such as amplified use of virtual plating technology and development of cost effective thoracic fixation devices are attributing toward the rising demand.

The market is competitive in nature as the manufacturers are involved in new product development strategies to increase their market penetration. Also, the companies are entering into collaborations and research alliance with other market players to increase their product portfolio. Various software and virtual three-dimensional (3D) technologies are adopted by companies to gain competitive advantage. For instance, the introduction of technologically advanced 3D printing allows manufacturers to integrate materials from



popularity in coming years.

Further Key Findings from the Study Suggest:

- [CMF](#) plate and screw fixation dominated the product segment of CMF devices as of 2016, owing to increasing number of CMF trauma and reconstruction procedures which are non-elective
- Temporomandibular joint (TMJ) replacement product segment is expected to show lucrative growth over the forecast period
- Metallic implants held the largest revenue share owing to the advantage associated with it, such as less corrosive nature and provide rigid support to the fixators
- [Asia Pacific](#) region is anticipated to register rapid growth in coming years owing to the presence of high unmet needs coupled with increasing patient awareness levels and improving healthcare infrastructure
- Three-dimensional printing allow integration of new material for reconstruction and cranial surgery, this attracts more manufacturers for the investments in R&D for the development of advanced products
- Key players operating in this market include Johnson & Johnson (DePuy Synthes), Medtronic Inc., and Zimmer-Biomet Inc. which make the entry for small organizations difficult
- Moreover, stringent norms for product approval and post-approval performance monitoring which are regulated by authorities such as the U.S. FDA and American Academy of implant may act as a threat for new participants.

Industry Insights

The worldwide Craniomaxillofacial (CMF) gadgets/frameworks market measure was esteemed at USD 1.28 billion out of 2016 and is relied upon to develop at a CAGR of 8.6% over the figure time frame. Expanding interest for insignificantly obtrusive surgeries is relied upon to drive the CMF gadgets to advertise amid the gauge time frame.

Rising frequencies of street mishaps because of urbanization and industrialization and rising demand for viable reconstructive surgeries are required to empower positive CMF gadget industry development. Expanding commonness of facial cracks is required to come about predominantly from battle sports (around 80%). Nose and teeth represented the most harmed zones and hence requires more consideration relating to prevention measures.

What's more, expanding awareness levels among customers are one of the key contributing components for the market development. For example, associations, for example, American Society of Craniofacial Surgery (ASCFS) and International Society of Craniofacial Surgery (ISCSF) are leading the exploration program in a test to build mindfulness relating to CMF surgeries.

Additionally, developing geriatric populace base and rising social insurance consumptions are some different elements dared to drive the interest for CMF surgeries over the estimated time frame. Joining of innovatively propelled 3D printed inserts utilized as a part of cranial reconstructive surgery went for expanding reception is additionally foreseen to give this market lucrative development openings.

Product Insights

Cranio-maxillofacial devices item section envelops temporomandibular joint (TMJ) substitution, CMF diversion, cranial fold obsession, CMF plate and screw obsession, bone unites substitutes and thoracic obsession. CMF plate and screw obsession commanded the item portion in 2016.

This predominance is credited to its wide utilization in different surgical strategies, for example, distortion revision, orthognathic surgery, tumor expulsion, and pediatric surgeries. Mechanical headway, for example, presentation of titanium cranial obsession framework and expanding viability of the gadgets are the components contributing towards the development of cranial fold obsession portion over the conjecture time frame. Also, bioabsorbable polymers based inserts are probably going to pick up ubiquity in not so distant future, contributing toward the portion development.

TMJ substitution gadgets are required to witness quickest development rate over the gauge time frame because of expanding frequencies of street mishaps and games wounds prompting cranial and facial cracks. TMJ gadgets are utilized as a part of prosthetic jaw substitution surgery. It has different applications including combined joints, breaks, worsened joints, variations from the norm, and ligament conditions. These gadgets help in diminishing jaw torment, impedance with eating and build mouth opening limit.

TMJ substitution inserts have two essential sorts, for example, half-way and add up to. Half-way TMJ embed is utilized to restore the fossa and gives the surface to the characteristic mandibular condyle. Add up to TMJ embed incorporates upper and lower part to supplant the condyle. It is the quickest developing section, because of expanding number of corrective surgery, for example, jaw increase and jaw swap for enhancing the presence of the face.

Material Insights

Bioabsorbable materials are relied upon to enroll lucrative development over the estimated time frame, as utilization of these inserts invalidates the odds of a moment surgery, required if there should arise an occurrence of metallic inserts and simple absorption in the body framework. Innovative headway in the CMF surgery, for instance, self-inforced innovation and preferences related to it, for example, biocompatible, effortlessly took care of degradable property and unwavering quality are the components anticipated that would push the market development.

Titanium and its combination are most usually utilized metals for CMF surgery because of preferred standpoint related with it, for example, lightweight, latent metallic property, quality gave to inserts, high tissue acknowledgment,

and consumer protection. It is utilized as a part of the mandibular reproduction.

Besides, expanding government activities went for making mindfulness relating to the utilization of CMF surgeries in the adjustment of distortions is likewise anticipated that would broaden the buyer base for the portion development in coming years.

Metallic inserts overwhelmed the general material market attributable to the related focal points of being less destructive in nature, giving unbending help to the breaks, relatively less expensive than bioabsorbable partners and higher market entrance than different materials. Metals are utilized as a part of the CMF surgery since they are less destructive in nature and physiologically bolster the breaks.

Application Insights

Neurosurgery and ENT held the biggest income share starting at 2016, attributable to expanding rate of injury and the spinal issue requiring cerebrospinal liquid (CSF) administration amid surgery. In addition, reception of profound cerebrum incitement systems is one of the key contributing elements for this fragment development. In profound mind incitement, the inserts are utilized to cover the skull subsequent to embeddings the cathode.

Neurosurgical use of cranial inserts comprises of skull surgery and otolaryngology strategies. These gadgets help with treating neuro-oncology, neurovascular ailments, spinal issue, dura mater repair, transnasal skull-based surgery, profound cerebrum incitement, pelvic or cranial injury, and CSF administration. Medpor bioabsorbable inserts are most usually utilized for neurosurgery.

In addition presentation of surgical route innovation for ENT, methods are relied upon to fuel the market development over the gauge time frame. Points of interest related to this innovation, for example, convenience, 3D show, and continuous virtual life structures refreshes are foreseen to support the selection rates in not so distant future.

Plastic surgery is relied upon to develop at the quickest CAGR inferable from developing mindfulness and interest for tasteful systems and expanding use of restorative surgeries particularly in created economies, for example, the U.S. Furthermore, cranio-maxillofacial gadgets are utilized as a part of maxillofacial oncologic and reconstructive surgery by and large alluded as MORS are relied upon to pick up prominence in coming years which along these lines contributing towards the section development.

Regional Insights

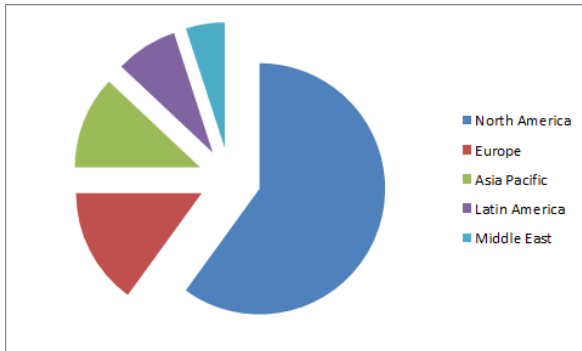
North American nations dominated the general market regarding income share in 2016 inferable from expanding occurrence of facial distortions and facial breaks. Moreover, the presentation of mechanically progressed cranial inserts, rising interest for insignificantly obtrusive surgeries, the nearness of complex human services foundation and high patient mindfulness levels are the components crediting to the amazing development of cranio-maxillofacial gadgets in this district.

U.S. represented the biggest income share in 2016. Expanding interest in outpatient exercises and rising predominance of social insurance related contaminations are the key contributing components towards the biggest income offer of this market. What's more, rising weight from



government specialists to actualize security rules is required to move the development over the figure time frame

The nearness of undiscovered open doors, continually enhancing human services foundation, financial advancement, and rising patient mindfulness levels are key effect rendering drivers, representing the lucrative development of craniomaxillofacial industry in Asia Pacific district.



Competitive Insights

The craniomaxillofacial framework showcase is very focused in nature and ruled by a predetermined number of players. The most eminent members are DePuy Synthes (J&J), Stryker, Medtronic, and Zimmer-Biomet represent a noteworthy income offer of the craniomaxillofacial gadgets industry in the U.S. because of their broad item offerings. DePuy Synthes kept presenting creative new items that convey a little profile and give great results to patients bringing about catching more income share

Makers are engaged with the foundation of broad appropriation frameworks to increment land achieve, shared techniques, and extension of item portfolio. For example, In March 2015, Stryker propelled the cutting edge practical bone lattice at the American Institute of

Orthopedic Surgeons, which is utilized for the bone recovery strategies. This new item dispatch is executed to catch the new market for the craniomaxillofacial division.

Also, the interest for minimal effort and successful items is expanding from customer end which thusly is relied upon to keep the opposition at an abnormal state. Numerous little therapeutic gadget makers are engaged in the improvement of mechanically propelled items with more prominent proficiency.

For example, in January 2017, OSSDSIGN got the FDA endorsement for its OSSDSIGN Cranial inserts. This embeds helps in averting disease and it can be completely tweaked to patient's fit. These previously mentioned benefits with its use are required to enlarge its use rates over the estimated time frame.