

2019 HEALTHCARE PREDICTIONS UNLEASHED – GROWTH OPPORTUNITIES, TECHNOLOGY, AND TRENDS How Tech and Industry Convergence Will Drive Care Delivery Innovation

2018 Medtech Strategic Snapshot

Medtech companies in 2018, adopted a strategic shift towards achieving tech and data enabled solution efficiencies aimed at enhanced personalization and better post acute care coordination



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- Medtech has started focus on out-of-hospital care coordination and personalization for cost and efficiency improvements
- There has been a definitive uptick in digital, tech and data related initiatives by top medtech companies
- Value based care compulsions will drive continued vendor provider collaborations in 2019



*Based on analysis of 2018 press releases of 5 medtech giants, viz., Medtronic, J&J, Philips, Abbott Laboratories and Becton Dickinson & Co."n" refers to number of interpretations out of a total of 70 press releases analyzed

Source: Company Websites; Frost & Sullivan

Key 2019 Medtech Market Predictions

Al in robotic surgery would lead to new applications



Al, ML and DL enabled surgical robotic systems to witness major breakthroughs in terms of application across new areas such as joint replacement, neuro and spinal surgeries

Data driven business

models will account for

enhanced medtech revenues

4 in 10 medical device companies will invest in data analytics algorithms to drive Insights-as-a-Service and Intelligence-as-a-Service business models which will drive 3-5% of their revenues in 2019 Augmented and Virtual Reality Would Enter the Operating Room Smartphone would be the new medical device accessory for clinicians



Augmented Reality (AR) based headsets and surgical navigation systems to witness first ever commercial adoption in Hip, Knee and Shoulder Arthroplasty, Spine Surgery and Osteotomies



Medical device companion smartphone apps would reduce GP visits by 2-5% in developed markets. Respiratory and mental health solutions to be new growth areas beyond cardiovascular and diabetes

Source: Frost & Sullivan

Image Source: Thinkstock, Frost Database, Company Logos

Key 2019 Medtech Market Predictions

Orthopaedics — Would be the Next Frontier for Clinical Grade Wearables

Robotic Automation of Hospital Processes Smart Home Based Aging-in-Place Gets Serious About Core Healthcare Needs

Oncology to be the new area primed for data driven disruption



Medtech will leverage clinical and non-clinical grade wearables to improve postacute coordination in orthopedic rehabilitation. 2019 might also witness the first ever clinical grade orthopedic wearable.



Infection control OEMs, in partnerships with robotic automation providers, will offer customized automation consulting solutions representing an addressable market opportunity of \$3.5 billion in 2019



Smart home ecosystems to integrate home based health monitoring, drug delivery and dispensing systems into smart homes designed for aging-inplace, also enabling newer possibilities for telemedicine around continuous care



Specialties like lung cancer, driven by the unmet need for early detection and timely intervention, will see increase, in adoption of data driven screening, tracking and workflow platforms to streamline care pathways

Image Source: Thinkstock, Frost Database, Company Logos

Growth Opportunities for the Global Medtech Industry in 2019 and beyond



2019 APAC MEDICAL DEVICES OPPORTUNITIES



FROST & SULLIVAN

Five Big Themes of the APAC Medical Technology Industry



Theme 1: Adoption of Digital Solutions

FROST & SULLIVAN

APAC will emerge as the fastest growing market in connected medical device segment due to comprehensive and focused attempts by key stakeholders like government to promote the digital adoption





Share of connected devices in the total medical devices market will increase from less than **1%** to **3%** in next 5 years

Key Take-away

- ✓ Japan and China will capture the largest share, around 2/3rd of total APAC's connected device market
- ✓ High cost of devices and stringent reimbursement polices in emerging markets like India, ASEAN will hamper the growth in shorter run

Source: Primary Research; Frost & Sullivan

Increased adoption of complementary technologies like cloud computing, IOMT and Big Data analytics by healthcare institutions across APAC will be a driving factor for medical device firms to further align their strategizes toward innovations and digital solutions



Theme 2: Distribution and Route Optimisation Moving towards digitalized distribution systems

Key elements of distribution	Current leve China	l of technology adopt Japan	tion in distribution a Australia	across major APAC India	markets ASEAN
E-procurement systems					
Virtual Marketing and training					
Payment systems (Fee, EMIs,					
Renewals) Licensing applications for					
Online purchase (Ecommerce)					

Over 70% hospitals in India and ASEAN are still following manual procurement systems for medical device purchase, this trend is widely seen in public hospitals

- Standard order to remittance (OTR) time for a product is around 30% lesser in china and Japan, when compared to India, this is attributed to digital transactions for payments, licenses etc.
- Virtual marketing, 3D product experience has gaining popularity in the region, Distributors and OEMs are in early stages of partnering with large hospital groups to expand this model of selling, eventually, the remote hospital segment is beneficiary

Source: Primary interviews and Frost & Sullivan

Theme 3: Reimbursement Landscape

Percentage of reimbursements for medical devices in APAC is expected to increase significantly in <u>next five</u> years



Increase in private insurance and broader coverage across continuum are the key factors driving the shift

- ✓ India and ASEAN will witness a decrease in % of out-of-pocket expenses, which is currently higher than the APAC's average
- Value medical products will account for higher reimbursement amount (estimated to be over 90% of its price) and so large portion of incremental reimbursement value in next 5 years is captured by value segment



Shit toward outcome based reimbursement will fuel the growth of value products

- ✓ Increasing adoption of integrated mechanism to determine clinical and economic value of product by insurance companies will boost the market for value products
- Increased transparency in the eco-system will enable OEMs to predict the adequate level of investments in R&D that are aligned with insurance value requirements and the future reimbursement trends
 Source: Frost & Sullivant

Reimbursement outlook 2023: 2019 will set the direction for rapid transformation to achieve sustainability



Theme 4: The Value Product Segment

Market for value products is expected to occupy a significant dollar share in total purchase, driven by emerging markets with growing ,tier I, tier II and public hospitals





Share of value segment in medical device is expected to increase from **12%** in 2018 to **19%** in 2022

~26%	~10% Valu Global	lue product market revenue growth rate		
APAC will experience th	e fastest average growth egory compared to global,	Market shifts + "Hand-me-down" approach in APAC has impacted market growth and resulted in a deeper look at right fit products for markets		

An integrated eco-system that enables us to define "VALUE" is critical to success



Integrated eco-system enables to define "Value"

Theme 5: Key Components of Patient Centricity and the Medtech Market Opportunity



Shaping the Future of Healthcare Personalization, Decentralization, Collaboration and Prevention



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Appendix

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