



Trends in Medical Device OEM Strategy and Implications for the Supply Chain

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Manning Advisors LLC

Merger and Acquisition, Advisory, and Financial Services



Manning Advisors

- Merger and acquisition advisor to middle-market specialty materials and precision engineering companies
 - Strategic planning and value development services
 - Market analysis and market entry planning
 - Approximately 50% of our assignments are in the medical device supply chain
 - Buy-side
 - Sell-side
 - www.manningadvisors.com for more information
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Executive Summary



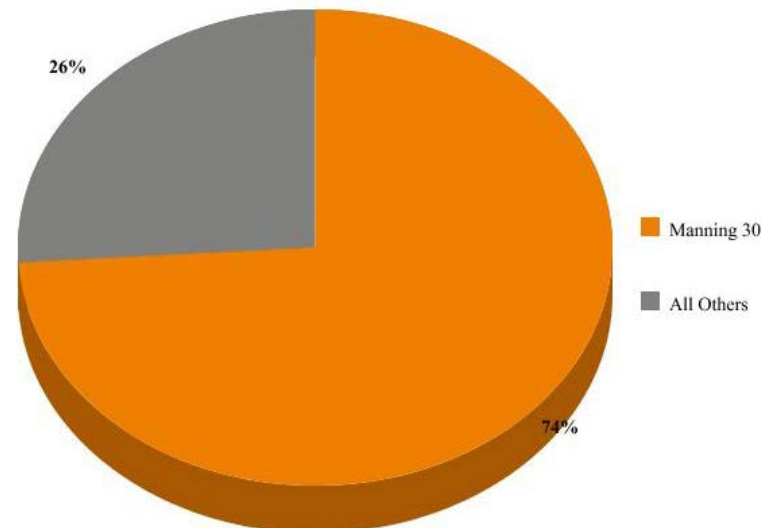
- In 2015 medical device OEMs facing four business drivers
 - **Mega-acquisitions** for both market exposure and market share
 - **Focus on emerging markets** for future growth with “value” products
 - **Accountable care** changing product lines in North America
 - **Continued outsourcing** of manufacturing

 - North American facing new issues as OEMs shift priorities
 - Changing definition of a preferred contract manufacturer
 - New manufacturing opportunities
 - LCC philosophy changing to lower-cost philosophy
 - The lure of branded product – two strategies
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The Medical Device Industry



2014 Global Medical Device/Diagnostic Equipment Market



Source: Manning Advisors LLC

- Total market = US\$330 billion in 2014
- The Manning 30
 - 30 largest global device and diagnostic equipment companies
 - All have sales over \$2 billion and pushing \$3 billion
 - 74% of 2014 medical device and capital diagnostic equipment market



Four Key Trends for OEMs in 2015

- Mega-acquisitions
 - Growth markets
 - Accountable care
 - Outsourcing manufacturing
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Mega-Acquisitions



○ **Top 30 buying each other**

- Always purchased smaller firms for growth and still do
- What's new? A wave of large company acquisitions
 - Medtronic-Covidien
 - Becton Dickinson-CareFusion
 - Zimmer-Biomet
 - J&J - Synthes
 - S&N-ArthroCare
 - Stryker-S&N?

○ **Drivers**

- Coverage and penetration of growth markets
- Market share strategy to deal with hospital consolidation in US, Europe
- Product pipelines
- Low interest rates

○ **For the supply chain**

- Limited impact today, one of the last items to consolidate is supply chain
 - Fewer large customers in the long run (2-5 years)
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Growth Markets



Region	Growth Rate	2014 % of Market
US/Canada	4-6%	41%
W. Europe/Japan/AUS	4-6%	30%
Growth Markets	8-18%	29%
Global	5-8%	100%

- OEM sales focus moving to growth markets
 - BRICs
 - Other Asian and Latin American markets
- Different products for different markets
 - Emerging market focus on expanding healthcare, particularly infrastructure
 - Limited emerging market demand for developed country products
 - Development of “value” and “underserved” products for emerging countries vs. “premium” products in developed markets
 - Most manufacture is local for local consumption
- For the supply chain
 - Some opportunity on premium product exports as OEMs stress sales for affluent private-pay patients
 - Likely a focus on the NA/European markets for smaller players

Accountable Care



- ACO = Accountable Care Organization
- ACOs made up of payers and payees
 - Insurance companies and government organizations
 - Hospital groups and physicians associations
- Higher payments for superior outcomes, not fee-for-service
- Recommend reviewing Fresenius results scorecard in their financials:
http://www.fmc-ag.com/files/20150112-13_FME_JPM_conf_SanFrancisco.pdf

Accountable Care – Market Forces Arrive



- Rapid movement to accountable care model in US
 - Decline of fee for service
 - Rise of fee for superior results
 - 30 million Americans now covered under ACOs

 - → **Accountable care changes entire OEM product strategy, especially in North America** ←
 - No more “just sell the doc” model - Sell to the hospital group/ACO as where **metrics** are the driver

 - Fewer, more sophisticated, **more demanding buyers** as hospitals consolidate
 - Few independent hospitals and clinics
 - Over 70% now affiliated

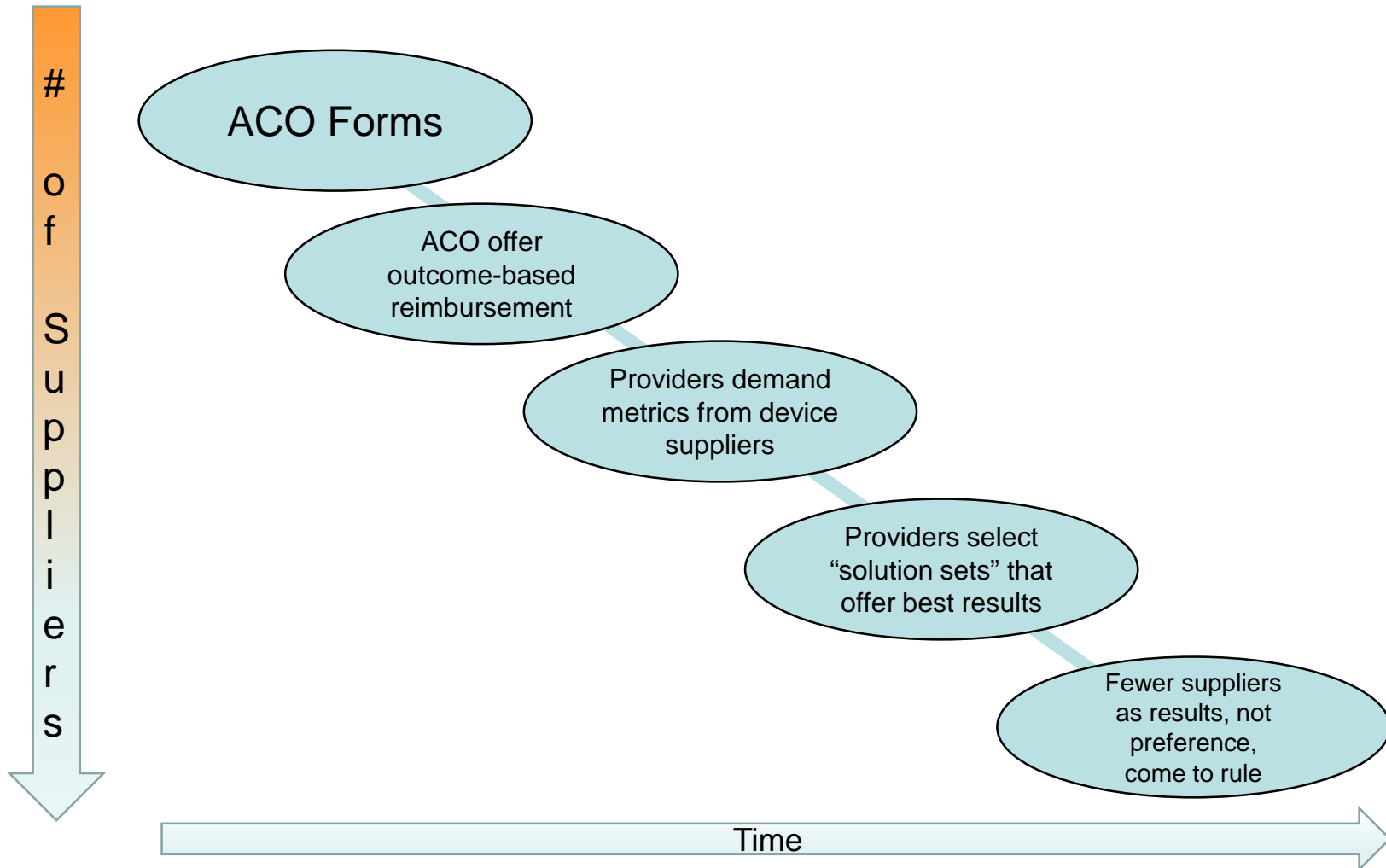
 - OEMS will offer **complete product/service solutions** covering all aspects of care aimed at better results
 - Devices yes, but training/tracking/reporting as well
 - More electronics for management and reporting
 - More “outcome driving” features and services

 - Marginal players will be pushed out

 - Fewer, larger suppliers

 - For the supply chain
 - Fewer OEMs per specialty. Greater market share to the remaining players. Pick your winners
 - Advantage to supplying more than just a product
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Accountable Care – Fewer Suppliers





Outsourcing in Full Swing

- Every major OEM continues to outsource
 - Few new manufacturing facilities in developed countries
 - OEM cost of goods is steady to down over last five years
 - The outsource philosophy has worked
 - No sign the pendulum is swinging back

 - Target numbers emerging
 - OEMs will consider outsourcing if they see a 10-30% savings
 - Translates to 3 to 5 gross margin points for the OEM

 - For the supply chain - Expect growth
 - Estimated 12% global growth rate in outsourcing
 - Likely around 6-8% in United States
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Summary



- Medical device industry is growing steadily
 - Mega-mergers are creating fewer, larger players
 - Sales focus shifting to growth markets
 - Product lines are splitting into premium and value categories
 - ACO rewards superior results
 - Likely rewards care systems rather than individual devices
 - Fewer brands in any given hospital department, pick your winners
 - Changing products to support demonstrated efficacy
 - Outsourcing will continue
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The Supply Chain



Definition of a Preferred Supplier Is Changing



- A new model of contract manufacturer emerged about 10 years ago
 - Broad portfolio of manufacturing capabilities
 - Modern medical quality standards
 - Demonstrated manufacturing expertise
 - Financially stable, over \$40 million in sales

- New preferred CM model evolving – Even larger and broader companies

Design and manufacturing partner focused around medical practice areas
or

Manufacturing partner focused around areas of production expertise

- Access to the new projects on which OEMs earn 80% of their profits
 - Supply chain dominance- displacing or subsuming smaller competitors
 - \$100 million in sales – long term financial stability
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- Timing of 3-5 years
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CM Types and Examples



Design and Manufacturing CM	Manufacturing CM
Lake Region Medical (interventional)	Flextronics Medical (former Avail)
Vention (MIS devices)	Cadence (MIS devices)
Creganna/Tactx (MIS devices)	MICRO (tube-based devices)
Helix Medical (catheter systems)	Cretex (metals and plastics)
Tecomet (ortho)	Okay Industries (metals)

Changing Role of a Preferred Supplier



- Relationship with OEM will be longer and deeper
 - CMs formerly handled **projects**
 - Now need to handle **programs** for their multi-year lifecycle
 - Need program managers rather than project managers
 - “Ambassador” from CM to OEM
 - High level management skills
 - Proactive vs. reactive strategy

 - Gaining responsibility for the supply chain
 - Selection/management of smaller suppliers passing to preferred CMs
 - Increasing sourcing and inventory management

 - Expanding manufacturing portfolios
 - More capabilities, more opportunities
 - Greater lock on relationship with smaller number of large OEMs
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Roles for the Future

○ Contract manufacturer

- Focuses on overall responsibility for the product
- Increasingly expensive, difficult strategy
- Near impossible without major capital and acquisitions



○ Sub-contractor

- Whatever the CM will share
- OK for now, hard in the long-run
- Will not be master of its own future, no matter how excellent the quality of their product



○ Specialist

- Profitable if the right niche is found
- Valuable position for the long term



New Manufacturing Opportunities



○ Electronics and informatics

- Accountable care requires massive data collection
- Wiring of hospitals, operating rooms, and devices
- Most hospitals currently have modern IT equipment but little integration
- New devices will contain electronics and digital IDs.
- OEMs will seek CMs with relevant experience

○ Powered devices

- Not just a luxury, deliver consistent, optimal results
- Requires specialized design/manufacturing/assembly capabilities
- Watch for smaller electronics CMs to press in on this trend

○ Union of biologics and devices

- Accelerating trend due to superior outcomes
- Handling biologics a big step for most supply chain companies
- Very profitable

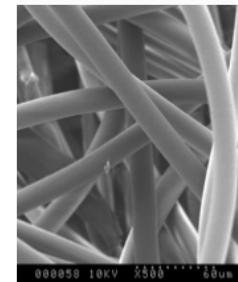
○ Additive manufacturing

- Will be ubiquitous
- Great opportunities today for prototypes and fixtures
- Important to develop relevant expertise as will be disruptive technology

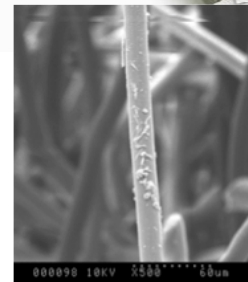


Customized Solutions for Powered Surgical Devices

- Tailored to Your Needs
- Development
- Manufacturing
- Safe, Effective and Reliable
- No Need to Modify or Adjust Your Goals
- Product Excellence Through 6-Phase Development



Epidel™



Drug Alone

LCC or Lower Cost?



- Pressure from OEMs to go offshore for lower costs – a mantra
 - Makes sense for work with large labor component
 - Automation increasingly may be more economically sensible
 - Critical to **market** automation capabilities and results
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The Lure of Branded Product

- Two models
 - Branded product sold to end-users
 - Branded product for private label sales
- To end-users
 - Challenging due to potential channel conflict
 - Gross margins of 60% or higher
 - High valuations, greater than 10X EBITDA, often much higher
 - Symmetry, Martech
- Private label
 - Evolving model
 - Can be full device or components/materials
 - Seems to add value but details are scarce
 - Lake Region, Creganna, Derringer-Ney



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