

Marketrack

MARKETRACK

MARKET SHARE REPORTING

BRAND PERFORMANCE TRACKING

MARKET OPPORTUNITY ASSESSMENT

COMPETITOR PRICING ANALYSIS

PROCEDURE TRENDS

PRODUCT PORTFOLIO PERFORMANCE ANALYSIS



Marketrack Methodology

MarkeTrack methodology involves recruiting hospital personnel responsible for the management of medical equipment and procedures to participate by providing procedure volumes, device usage data, and brand-level pricing information on an ongoing basis.

Sample/ Survey design



- Characterize universe
- Review literature
- Identify key respondents
- Sample stratification
- Design survey
- Program survey

End users surveyed



- CathLab Managers
- Nurses
- Purchasing Managers
- Interventional Cardiologists
- Interventional Radiologists
- Stoma Nurses
- Radiation Oncologists

Data collected



- Procedure volumes
- Manufacturers/Brands
- Prices paid
- Installed base
- New Purchases
- Contrast agents
- Patient gender
- Reason for surgery
- Type of stoma

Analysis



Survey data checks for

Data verified with

internal & external

Outliers isolated &

Extrapolated National

verified with

respondents

consistency

sources

Totals

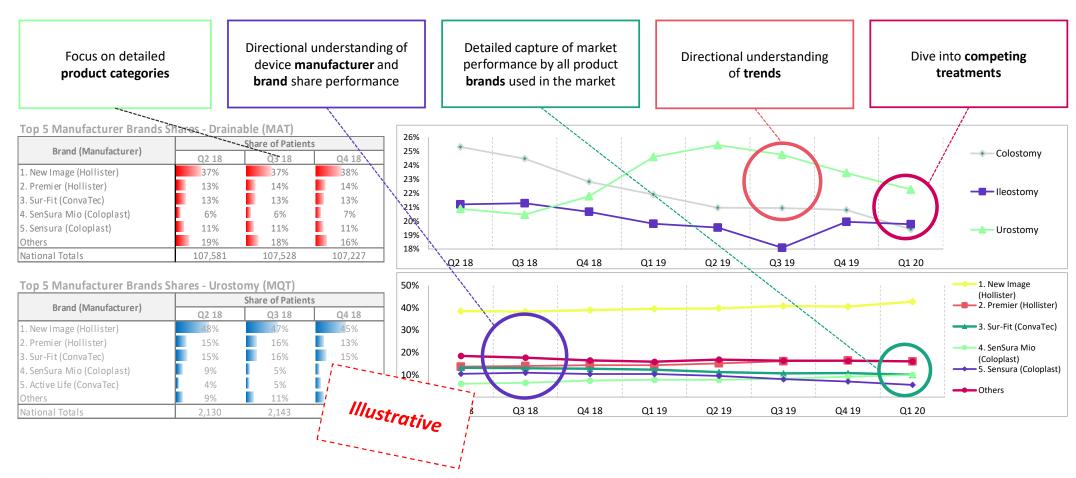
Data Reports



- Customized reports
- National/Regional data splits
- Intuitive displays
- Excel Reports
- Tableau Reports



Marketrack is a solution that provides timely, global brand share tracking across the Medtech industry





Data Capture and Sample Survey

						Manufactu	rer Usage Unit	Share %		
Α	Segment	Sub-Segment	# of Procedures	DePuy Synthes	Microport	Smith & Nephew	Stryker	Zimmer Biomet	Other (Please Specify)	Other (Please Specify)
8		Total Hip Arthroplasty								
	HIP IMPLANTS	Partial Hip						60		
	HIP INIFLANTS	Revision		3						
		Resurfacing								

What % of Total Hip Arthroplasty (THA) procedures are Anterior Approach?

What % of your total hip procedures are done through the anterior approach in the outpatient setting?



		600				Manufactu	rer Usage Unit	Share %		
В	Segment	Sub-Segment	# of Procedures	Arthrex	DePuy Synthes	Smith & Nephew	Stryker	Zimmer Biomet	Other (Please Specify)	Other (Please Specify)
10.00		Total Knee Arthroplasty								
	51100 BORNE BORNE BORNE	Partial Knee Revision								
	KNEE IMPLANTS	Complete Knee Revision								
	100	Unicondylar			A 6:					
		Patello-Femoral								



Data Capture and Sample Survey

	1. Drug Eluting Sten	t (DES)		
	合計:			
For Office Use Only	# of DES in P1-Q3		G	
製品名		数量	購入単	.価
ABBOTT VASCULARア	ボットバスキュラ-	_		

		Xien	се Хр	editio	n						
(径)	8	12	15	18	23	28	33	38	48	(mm長)	
2.25											
2.5											
2.75											
3											
3.25											
3.5											
4											

		Xi	ence S	ierra						
(径)	8	12	15	18	23	28	33	38	(mm長)	
2.25										
2.5										
2.75										
3										
3.25										
3.5										
4										

	2. Bare Metal Stents (BN	<u>(1S)</u>	
	合計:	0	
For Office	e Use Only # of BMS in P1-Q3	3	G
ID	製品名	数量	購入単価
ABBC	OTT VASCULARアボットバスキュラー		
1875	Graftmaster		
1357	Multi-Link 8		
BOST	ON SCIENTIFICボストンサイエンティフィ	ック	
22	Express2		
691	Liberte		
Biotr	onik		
2328	PK Papyrus		
BIOSI	ENSORS INTERNATIONL日本バイオセンサ	ーズ	·
704	S-Stent		
GOOI	DMAN グッドマン		
101	Duraflex		
1701	Vival		
MED	TRONICメドトロニック		
1064	Driver Sprint		
1122	Integrity		
TERU	MOテルモ		
1461	Kaname		
49	Tsunami		
[Othe	er] [その他]		
社名/品名			
社名/品名			



Data Capture and Sample Survey

Decision-Making RANK What is the most important factor in selecting a supplier of patient simulators? **Product Features** Quality Sales Attention **Customer Service** Interoperability With A Specific Capture/Debrief Systen Price 2 Who is the primary influencer of patient-simulator purchasing decisions? Faculty Simulation technicians/specialists Training program director When thinking about the bidding process, please select all that apply below Getting bids from various vendors seen as a formality Significantly impact product selection Craft requirements specifically to favor a particular vendor Requirements driven purely by training needs **Animatronics** Would you pay a significant premium for a simulator that could make facial expressions? Yes, 10% more Yes, 20% more No



Marketrack Coverage

Therapy Areas

- Blood Analyzers
- Diagnostic Imaging
- Electrophysiology
- External Beam Radiation Therapy
- General Surgery
- Interventional Cardiology
- Interventional Oncology & Endovascular
- Orthopedics
- Pain Management & RF Ablation
- Spinal Cord Injury
- Stoma Care Patient Discharge
- Urinary Retention Management

Countries

- North America: United States, Canada
- Latin America: Argentina, Brazil, Colombia, Mexico
- EU5: United Kingdom, France, Spain, Italy, Germany
- Rest of Europe: Belgium, Czech Republic, Hungary, Sweden, Switzerland, Netherlands, Poland, Romania, Russia
- EMEA: Pakistan, Saudi Arabia, South Africa, Turkey
- Asia-Pacific: Australia, China, India, Japan, South Korea

Plus, supplemental or aggregate coverage of smaller markets across Europe, Asia-Pacific and Latin America

Market share reporting

Brand performance tracking

Market opportunity assessment

Competitor pricing analysis

Regional pricing analysis

Product portfolio performance analysis



Marketrack Engagement A - Global RF Ablation Market Overview

Clarivate and client partnered to help understand the current RF Ablation market in various countries that informs the development of the marketing plan and sales team strategy

Business Context

The client's executive team needed an on the ground assessment of how RF Ablation procedures were being adopted across a variety of countries to help inform a business plan to deploy resources across those regions.

Key Engagement Objectives Questions

Top anatomies treated by RF Ablation

Understand the qualitative drivers that impact market growth, product usage, and brand selection

#1 treatment chosen by physicians before RF Ablation

Clarivate Solution

Primary market research-based and applicable secondary research methodology

Primary Research Inputs

20 Telephone Interviews
140 Quantitative Surveys
20 Face-to-Face Interviews

Additional Resources

Internal Clarivate Data Assets



Marketrack Engagement B - China Interventional Cardiology

Clarivate helps multiple clients track procedures and corresponding devices that are implanted in the Japanese Interventional Cardiology market on a monthly basis

Business Context

Clients needed a solution that gives visibility into the monthly trends of the Interventional Cardiology market in Japan that includes percutaneous coronary interventions, their corresponding devices like coronary stents, adoption of new products.

Key Engagement Objectives Questions

Percutaneous Coronary Intervention trends

Coronary Stents implants by manufacturer and brands

Imaging devices adoption into PCI procedures

Clarivate Solution

Primary market research-based and applicable secondary research methodology

Primary Research Inputs

110 Monthly Quantitative Surveys that captures monthly procedure volumes and devices implanted/used.

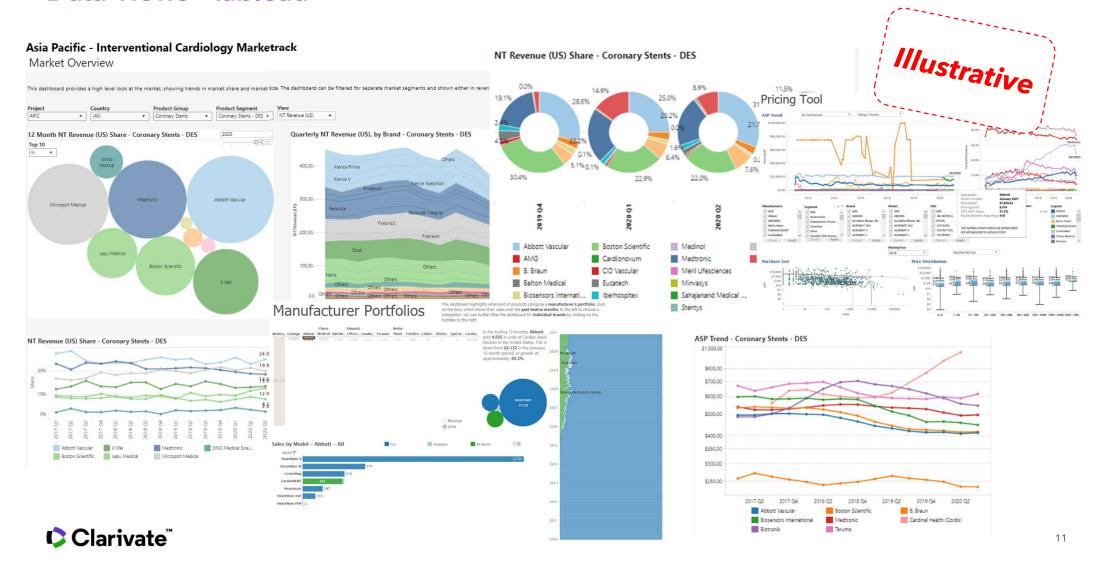
Sample is highly consistent month over month

Additional Resources

Internal Clarivate Data Assets



Data Views - Tableau



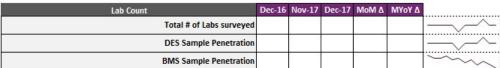
NT Units

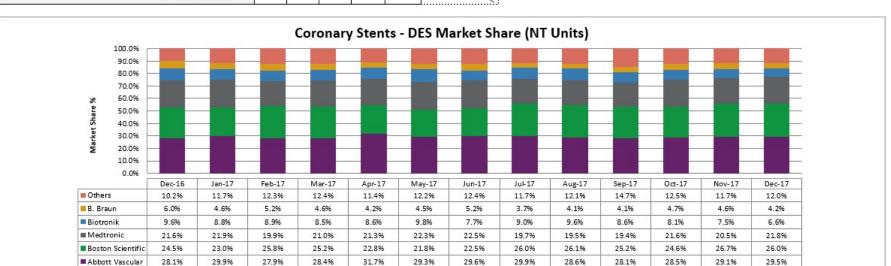
Dec-16 Nov-17 Dec-17 MoM \(\Dec \) MYOY \(\Dec \)

Coronary Stents - DES Units

Coronary Stents - BMS Units

NT Units	Dec-16	Nov-17	Dec-17	ΜοΜ Δ	ΜΥοΥ Δ
DES Penetration					





Choose Country



333100						
Data	France	Germany	Italy	Spain	UK	EU5
# of Diagnostic Angiographies						
# of Drug Eluting Stent Procedures	3					
# of Bare Metal Stent Procedures						
# of Mixed Stent Procedures	6					
# of PTCA w/ Stent Procedures						
# of Direct Stent Procedures						
otal Stent Procedures						
# of PTCA Balloon Procedures						
# of Cutting Balloon Procedures						
# of Non-stented Other Interventional					- Illust	
# of Diagnostic Only Procedures					1 450	ative
# of Same Session Procedures	8				1	
# of Intervention only Procedures						
otal Interventions						
# of Rotational & Directional Atherectomy Procedures						
# of Laser Catheter Procedures						
# of Thrombectomy Procedures						
# of Radiation Therapy Procedures						
# of IVUS Interventional Procedures						
# of IVUS Diagnostic Procedures						



# ol	Facilities Reporting	
Group-SubGroup	PTCA Balloons - Normal	-JE
Country	EU5	JI.

Count of Lab_ID	Date	⊋Î.												
Manufacturer 🚚	Dec-16	Jan	-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Boston Scientific	200	1	89	198	201	192	195	196	202	191	190	210	195	188
Abbott Vascular	114	1	17	119	128	128	128	124	119	118	111	119	117	127
Terumo	89	8	15	85	85	90	92	90	83	92	91	96	99	82
Medtronic	82	8	1	76	84	83	83	81	77	86	87	91	89	83
Biotronik	44	4	10	42	45	41	45	44	44	44	46	46	49	48
B. Braun	17	1	2	17	20	16	17	17	20	18	14	20	18	18
Cardinal Health (Cordis)	12	1	.0	9	8	13	12	12	13	11	9	9	13	
SIS Medical	9	Section 1	6	9	9	8	9	10	10	10	6	9	12	-
OrbusNeich	8		5	5	4	_ 5	5	8	8	9	10	11	1,	llustr
Hexacath	9		6) 41	6	6	9	10	9	10	7	6	9	! !	//_
Invatec	6		6	-7	5	7	3	5	7	4	6	4		USTr
Biosensors International	6		3	5	4	6	.5.	8	6	6	4	7	-	
Acrostak	7		2	7	3	4	5	3	5	3	6	4		
Meril Lifesciences	5		6	4	3	4	4	6	4	3	3	4	5	
Minvasys	4		1	6	4	4	2	3	3	3	4	3	3	2
berhospitex	3		2	3	3	3	3	3	3	3	4	3	3	3
Intelligent Kinetics	1		4	1	1	3	3	1	2	3	3	2	3	3
Blue Medical	1		2	3	2	2	2	2	2	1	2	1	2	2
CID Vascular	2		2	1	1	1	2	2	2	1	1	4	1	1
Vascular	1		1	2	2	1	2	2	1	2	2	1	2	2
Balton Medical	2		1	3			2		2	2	1	2	2	2
Bolton Medical	1		1	1			1	2	2	1	2			1
Kaneka									2	2	2	2	1	2
ClearStream Technologies			1	1					1	1	1			
Bard			1					1	1			1		
Rontis Medical											1			
Grand Total	623	5	84	610	618	620	630	629	629	621	612	658	649	625



YYY -	Quarter 💌	Product_ID 💌	Statistics_ID -	Lab_ID 🔻	Lab Size 💌	Facility Type	Date 💌	Country -	Group	Manufacturer
009	1	8	9318	EC226	L	public	39814	France	PTCA Balloons	Boston Scientific
009	1	9	9318	EC226	L	public	39814	France	PTCA Balloons	Boston Scientific
009	1	10	9318	EC226	L	public	39814	France	PTCA Balloons	Boston Scientific
009	1	289	9320	EC001	L	private	39814	France	PTCA Balloons	Abbott Vascular
009	1	8	9320	EC001	L	private	39814	France	PTCA Balloons	Boston Scientific
009	1	502	9320	EC001	L	private	39814	France	PTCA Balloons	Terumo
009	1	787	9338	EC335	L	public	39814	France	PTCA Balloons	Abbott Vascular
009	1	8	9338	EC335	L	public	39814	France	PTCA Balloons	Boston Scientific
009	1	8	9376	EC186	L	public	39814	France	PTCA Balloons	Boston Scientific
009	1	350	9376	EC186	L	public	39814	France	PTCA Balloons	Medtronic
009	1	289	9398	EC003	L	private	39814	France	PTCA Balloons	Abbott Vascular
009	1	8	9398	EC003	L	private	39814	France	PTCA Balloons	Boston Scientific
009	1	859	9398	EC003	L	private	39814	France	PTCA Balloons	Cordis
009	1	863	9398	EC003	L	private	39814	France	PTCA Balloons	Cordis
009	1	903	9398	EC003	L	private	39814	France	PTCA Balloons	Medtronic
009	1	782	9392	EC009	M	private	39814	France	PTCA Balloons	Abbott Vascular
009	1	787	9392	EC009	М	private	39814	France	PTCA Balloons	Abbott Vascular
009	1	8	9392	EC009	M	private	39814	France	PTCA Balloons	Boston Scientific
009	1	10	9392	EC009	M	private	39814	France	PTCA Balloons	Boston Scientific
009	1	248	9392	EC009	M	private	39814	France	PTCA Balloons	Boston Scientific
009	1	350	9392	EC009	M	private	39814	France	PTCA Balloons	Medtronic
009	1	903	9392	EC009	M	private	39814	France	PTCA Balloons	Medtronic
009	1	502	9392	EC009	М	private	39814	France	PTCA Balloons	Terumo
009	1	289	9393	EC045	M	private	39814	France /	-PTCA Balloons	Abbott Vascular
009	1	787	9393	EC045	М	private	39814	France		 Abbott Vascular
009	1	8	9393	EC045	M	private	39814	France	• ~	Boston Scientific
009	1	10	9393	EC045	М	private	39814	France	lustrative	Boston Scientific
009	1	863	9393	EC045	M	private	39814	France	"uStrati	 Cordis

