Compliance Is Mandatory. Complexity Is Not.™



Improving Global Compliance for the Life Science Industry

MediSpend | Insight Analytics

Mini Summit 8: Analytics with Reference to Transparency and/or Monitoring

Tuesday, April 9, 2019 The 13th International Pharmaceutical and Medical Device Compliance Congress Athens, Greece

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MediSpend | Insight Analytics Terminology, Definitions and Architecture

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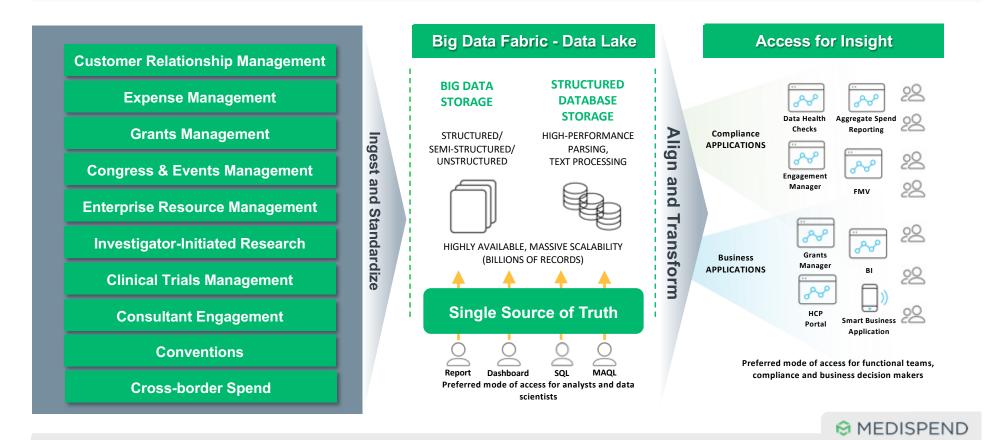
Terminology and Definitions

ltem	Description
LDM	Logical Data Model – A representation of a system's database expressed in a way that is independent of the underlying database structure. This model is usually sufficient to depict how data elements relate to each other
Attribute	An element or property used to describe something about a row of data such as type, color, name, or location.
Dimension	A structure that represents categories of data. Common dimensions are covered recipient, state, country, specialty and time (calendar). Many attributes are part of a dimension.
Measure and Metric	A measure of a numeric value that represents a tangible quantity of something important for the business to track (i.e. spend amount, expense amount).
	A metric captures some higher function such as spend amount per day, total spend, etc

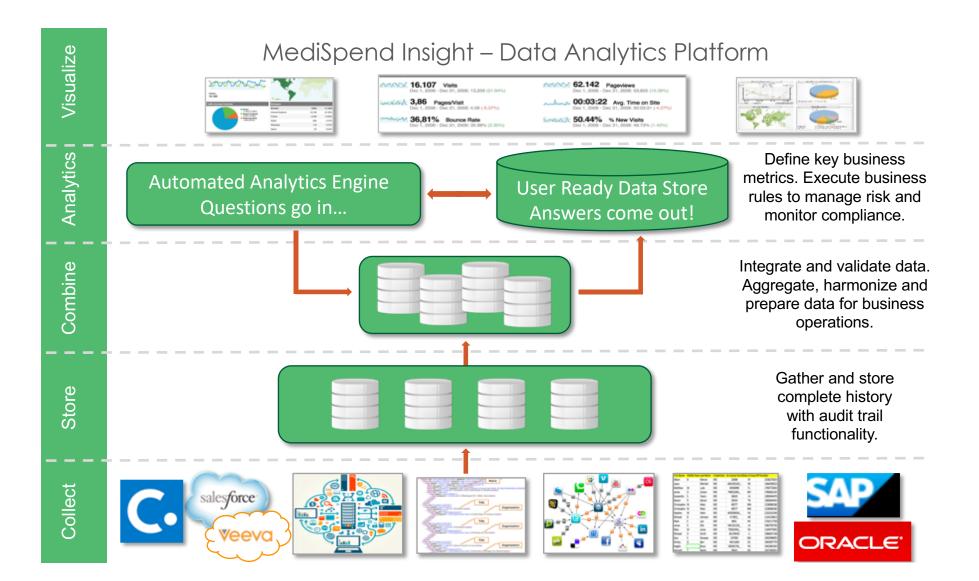
Terminology and Definitions

Item	Description
Fact	A significant event or occurrence in the business, typically accompanied by attributes of dimensions. A Transfer of Value is a typical fact containing the spend measure and/or the total spend amount metric.
Aggregate	A function where metrics or measures where multiple rows are grouped together to generate a single value, i.e. average spend, greatest spend, top 10 total spend
Drill-down	The process of navigating in a hierarchical dimension. Drill Down zooms in to more detailed data by changing dimensions.

Life Science Data & Analytics Ecosystem



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MediSpend | Insight Analytics Use Cases

- Compliance Monitoring
- Business Unit Analysis & Monitoring
- HCP Engagement Monitoring
- Market Analysis & Benchmarks

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MediSpend | Insight Analytics Compliance Monitoring – Stay ahead of the business

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Compliance Monitoring – Total Spend Cap Alerts

Physician Threshold - Analysis Vs 100K Cap				
Physician Name	Credentials	Specialty	% of Cap - 100K	Spend #
HOBSON, ROGER	MD	Internal Medicine	367.44%	\$367,444.05
GRECO, George	MD	Internal Medicine	75.91%	\$75,913.50
GRECO, Henrik	MD	Internal Medicine	73.20%	\$73,200.00
HOBSON, Ginger	MD	Internal Medicine	62.66%	\$62,659.51
RAYBURN, DAVID	MD	Orthopedic Surgery	22.90%	\$22,900.00
MANNER, DAVID	MD	Obstetrics & Gynecology	21.00%	\$21,000.00
RAYBURN, DAVID	MD	Cardiology (invasive)	20.75%	\$20,750.00
		Gastroenterology	20.75%	\$20,750.00
RAYBURN, JAMES	MD	Urology	19.73%	\$19,730.00
TAYLOR, DONNICA	PHD	General Practice	18.51%	\$18,513.15
TAYLOR, SCOTTY	MD	Dermatology	17.63%	\$17,625.00

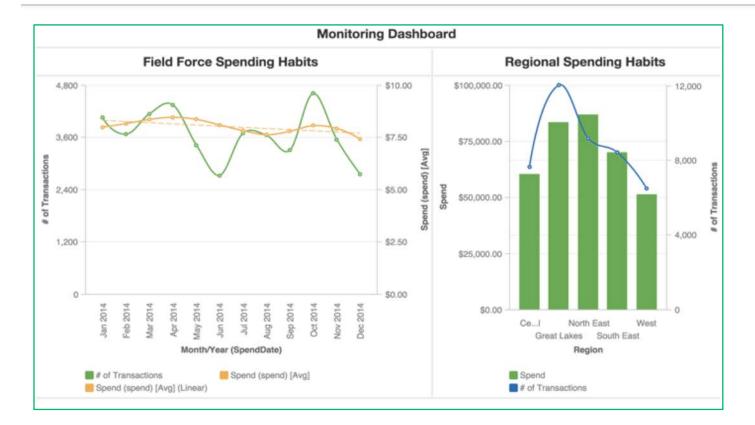
- Manage and reduce risk with real-time empirical data
- Spend alerts and threshold warnings

Physician Threshold - California

Physician Name	Credentials	Specialty	% of Cap - CA	Spend	Å.
JORDAN, MARSHALL	MD	Obstetrics & Gynecology	21.79%		\$326.86
HOBSON, STEVEN	MD	General Practice	17.33%		\$259.95
DENHAM, STEPHANIE	MD	Obstetrics & Gynecology	17.25%		\$258.77

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Field Force Monitoring – Spending Trends – Meals

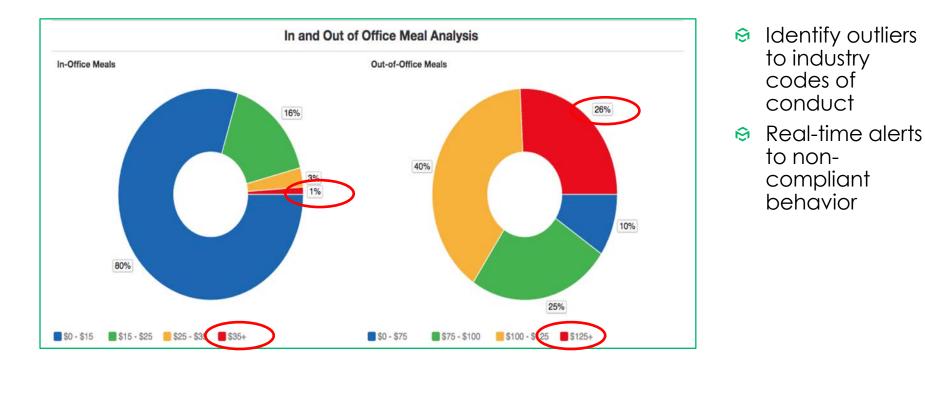


- Compare actual vs. expected spend values in real-time
- Monitor sales force behavior and trends in real-time by region

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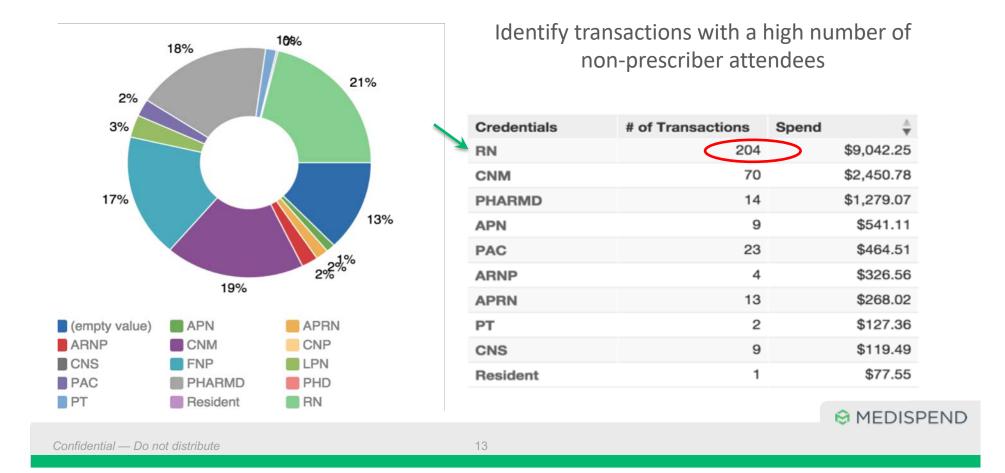
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Field Force Monitoring – Spending Trends - Meals

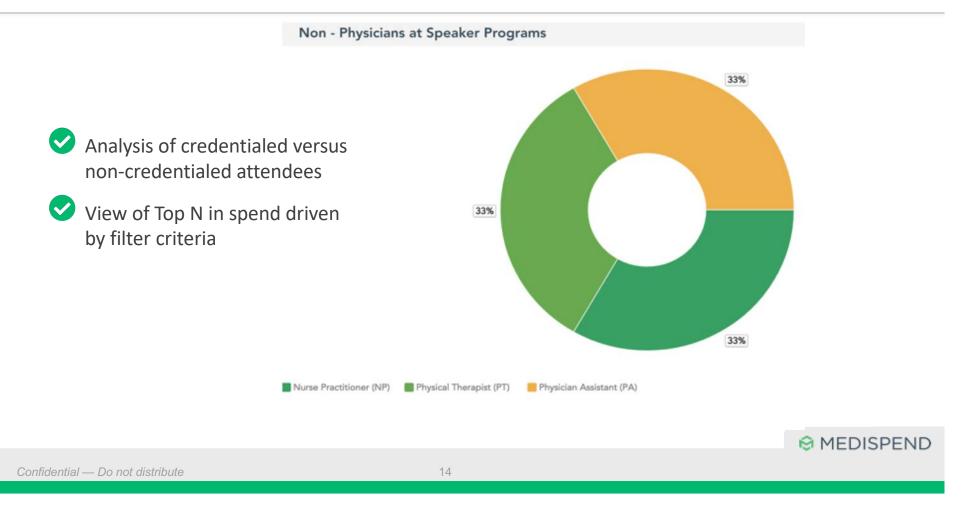


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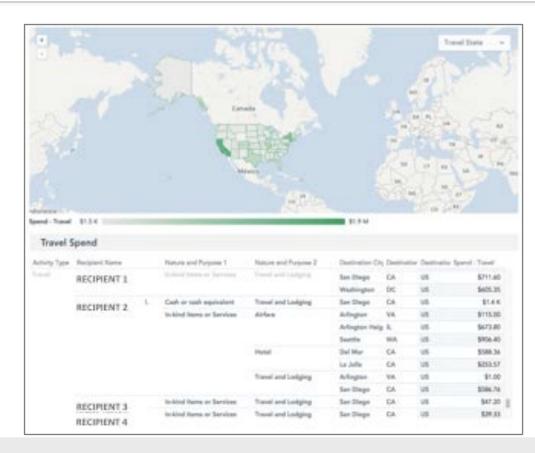
Compliance Monitoring – Off-label Analysis and Alerts



Physicians vs. Non-Physicians



Complete Travel Spend Availability

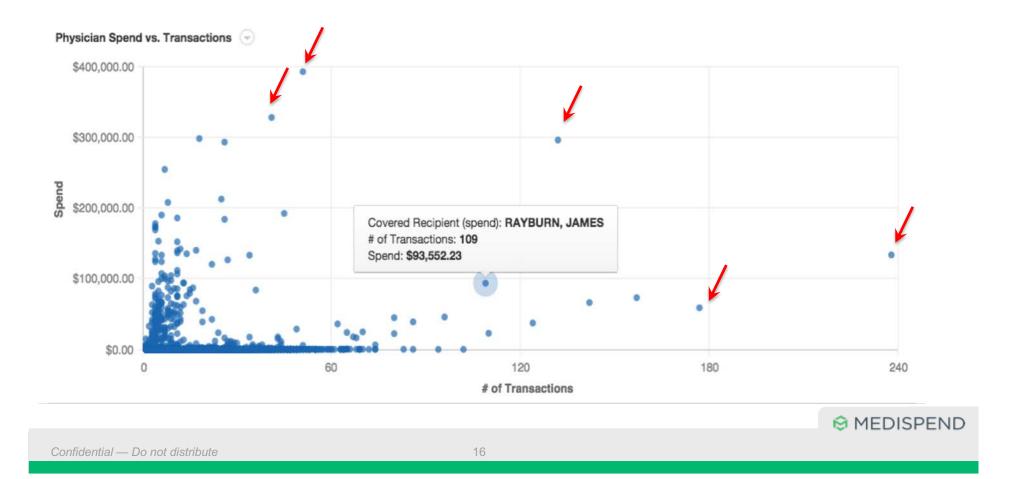


- Global Nature and Purpose analysis.
- Spend Activity Type by category
- Values of 'Travel' and 'Travel and Meals combined' displayed in the Travel Map and Travel Spend report.
- Alerts, warnings and monitoring dashboards and email notifications.

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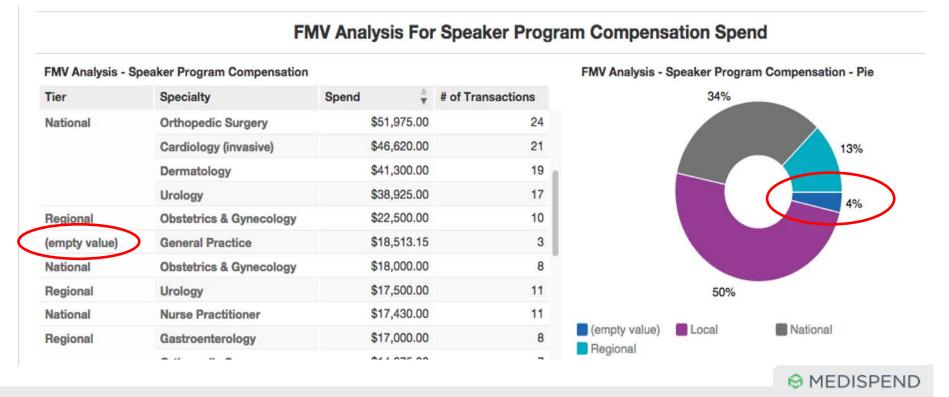
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Physician Total Spend Outlier Analysis



Compliance Monitoring – FMV Outlier Analysis - Alerts

Tier physicians and monitor unqualified speakers.



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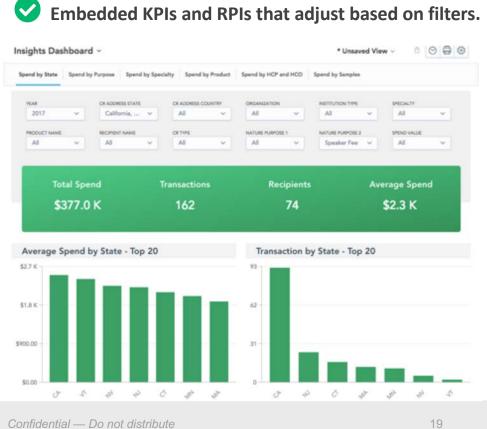
Certification Tasks = Real-time Monitoring

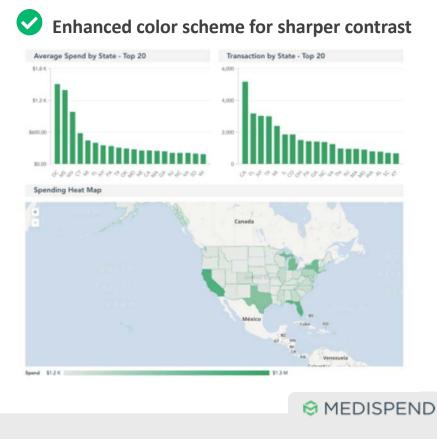
- Transparency Solutions now support spend certification process using task functionality.
- In the Compliance Dashboard, the Tasks Analysis tab, provides visibility to certification tasks assigned and updated in the MediSpend Transparency Solution Resolution Center.

ASK ID TITL	6			DESCRIPTION		DUE DATE		ASSIGN. STA	ATUS DATE
All ~ IA	dl		~	Ali	~	2018	~	2018	~
ASSIGNEE USER EMAIL		ASSIGNED BY USER EMAIL		NOTE		ASSIGNMENT :	STATUS	PRIORITY	
,All	~	All	~	All	~	All	~	All	~
ASK GROUP L1		TASK GROUP L2		TASK GROUP L3				REMOVED	
All	~	All	· ~ ·	All	~			No	
Task Analysis									
idsk / lidiysis									
		Cash Dave2	Dente J Dete D	ue Date Completion D	nto Domessio 12 Del	anter Phanadast	20.0	Notes	# Assign

Compliance > Task Analysis tab

Clear visualization of what's important – KPIs and KRIs



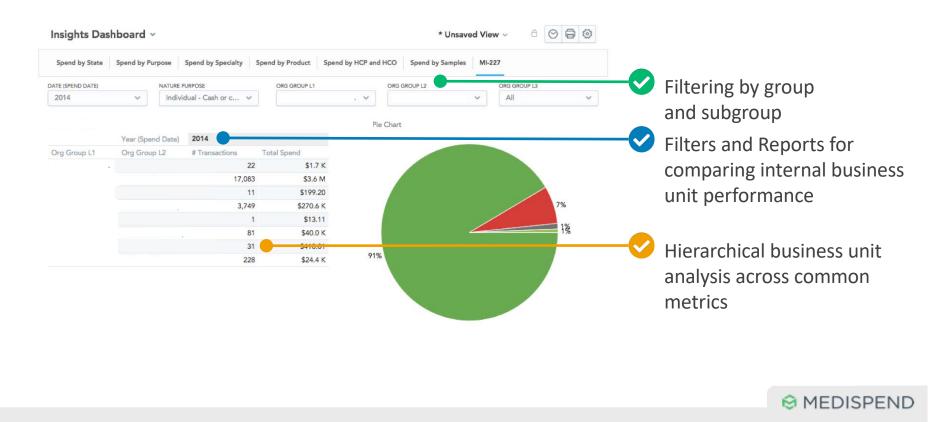


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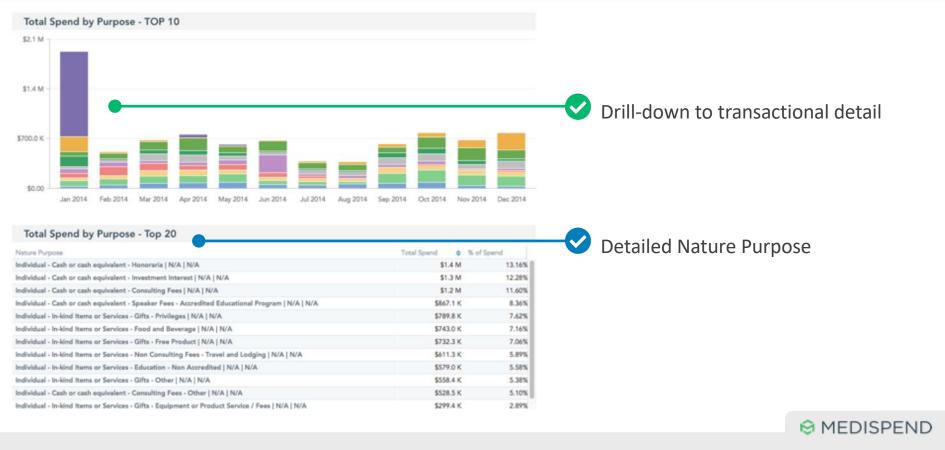
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Business Unit Analysis

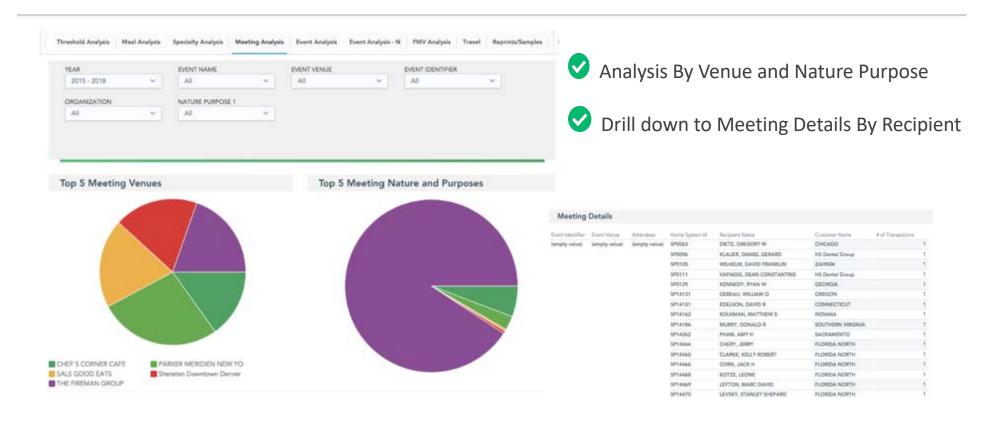


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Nature Purpose Analysis



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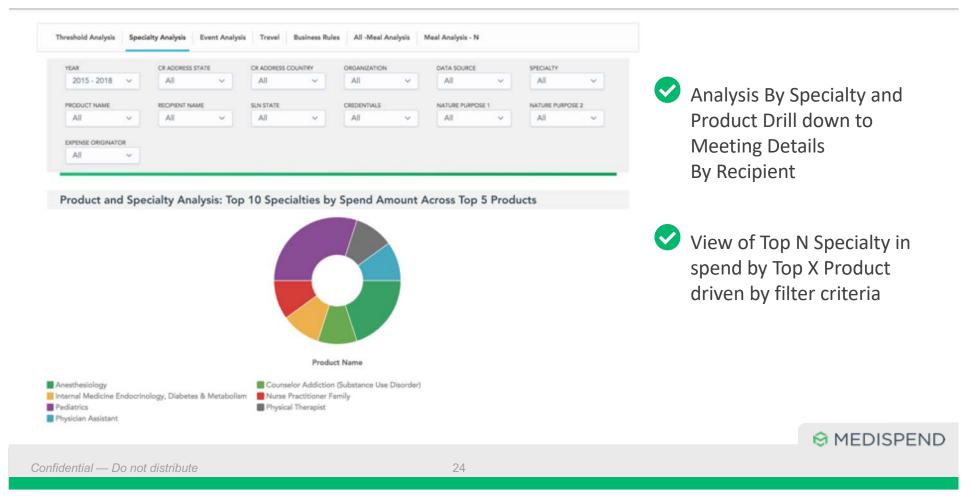


Meeting Analysis

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Specialty and Product Analysis



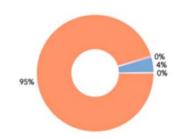
Specialty and Credential Analysis

Specialty Analysis

Specialty	Spend	# Transactions	
Pediatrics		\$11.1 K	3
Physical Therapist		\$500.00	1
Anesthesiology		\$145.00	2
Internal Medicine Endocrinology, Diabetes & Metabolism		\$101.00	1
Nurse Practitioner Family		\$45.00	1
Physician Assistant		\$28.00	1

Analysis By Specialty and Professional Credential

Credentials and Specialty Analysis Top 5



HCP Credentials	Total Spend
Medical Doctor (MD)	\$11.4 K
Physical Therapist (PT)	\$500.00
Nurse Practitioner (NP)	\$45.00
Physician Assistant (PA)	\$28.00
Sum	\$11.9 K

View of Top N in spend driven by filter criteria

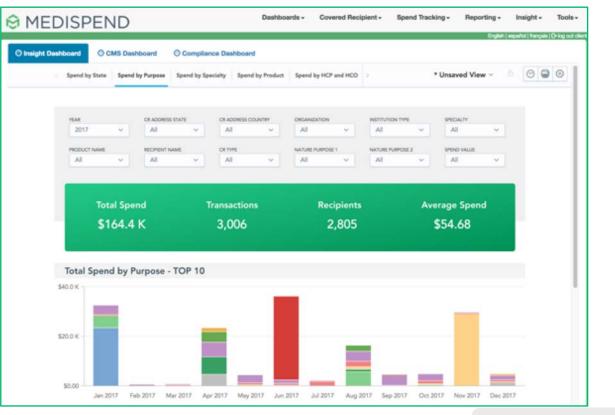
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Report Generation – Dashboard view to generate custom reports

Custom Reports may be created using the MediSpend Insight embedded analytics tool.

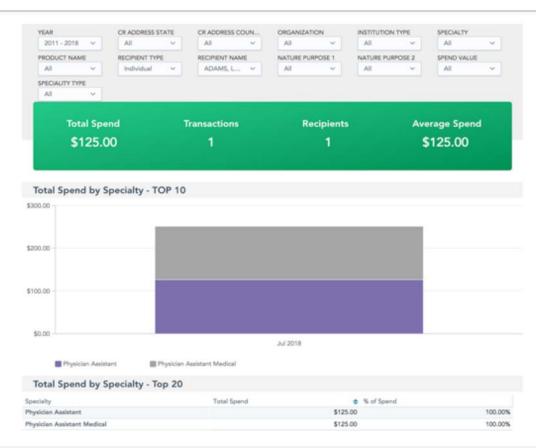
Users have the ability to select filters, drill down into transactional data and export in multiple formats



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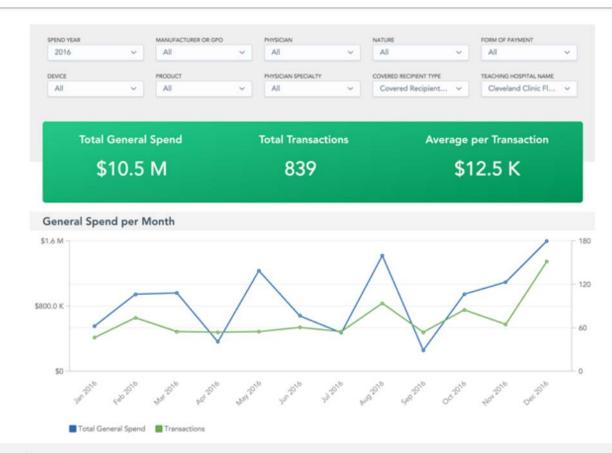
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Analysis of Spend by Specialty for (HCPs)



- Review multiple specialties, thresholds, alerts, and warnings.
- Data triggers emails and alerts in real-time.
- Predictive analysis to provide warnings of risk for future events.
- 😔 Customize

Enhanced Teaching Hospital Search



Use US Open Payments data to compare historical spend over time to real-time spend to monitor spend vs. competitors.

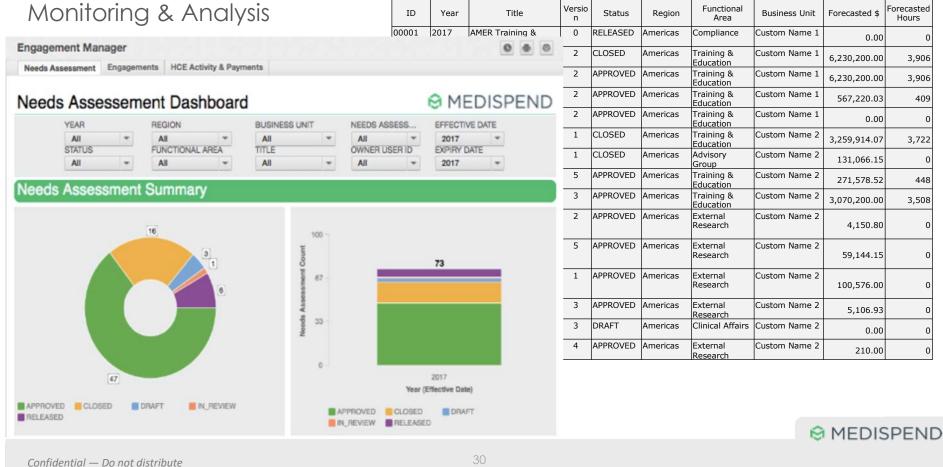
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HCP Engagement Monitoring & Analysis

Needs Assessment Detail

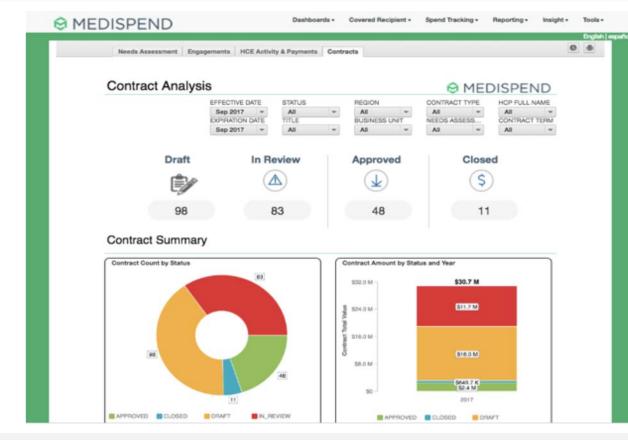


Real-time monitoring of upstream HCP engagements



- Real-time monitoring of HCP engagements
- Filters provide unlimited data analysis and reports
- Ability to set alerts and warnings
- Access from any mobile device – fully responsive

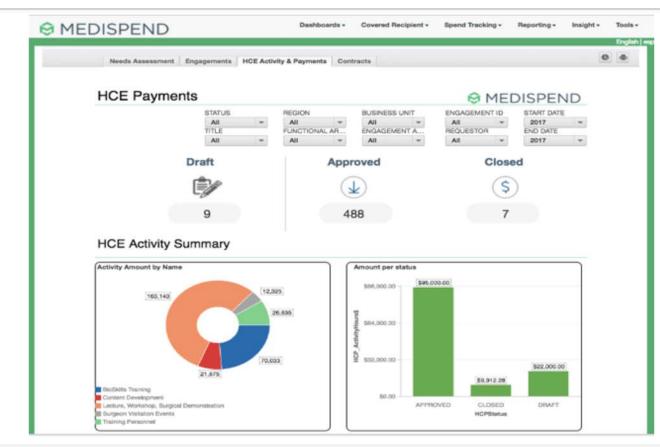
Manage and monitor contracts and link to remittance payments



Monitor Contract status in real-time

- Filters provide unlimited data analysis and reports
- Ability to drill down into data from any graph
- Access from any mobile device – fully responsive

Monitor HCP payments in real-time



Monitor HCP Spend in realtime

- Access one click reports from dashboard
- Ability to drill down into data from any graph
- Access from any mobile device – fully responsive

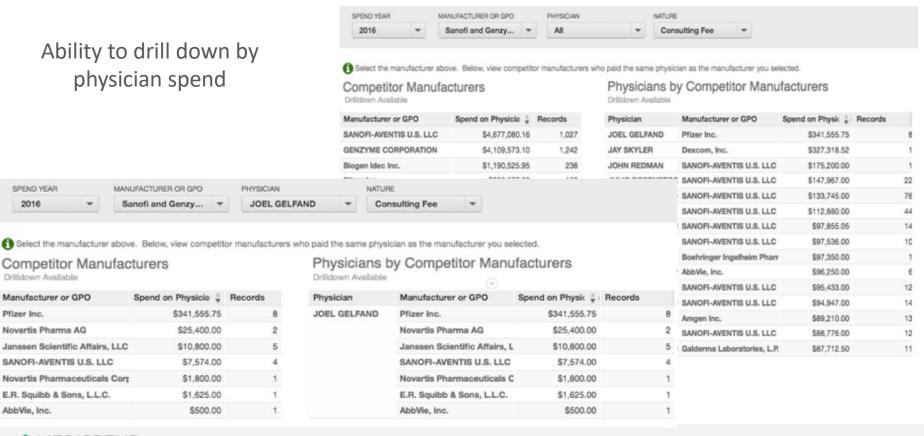
MediSpend | Insight Analytics Market Analysis & Benchmarks – See into the future

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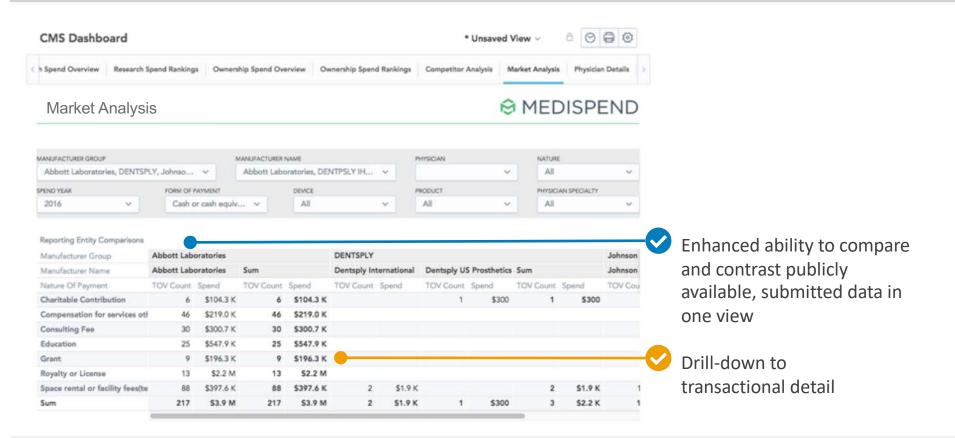
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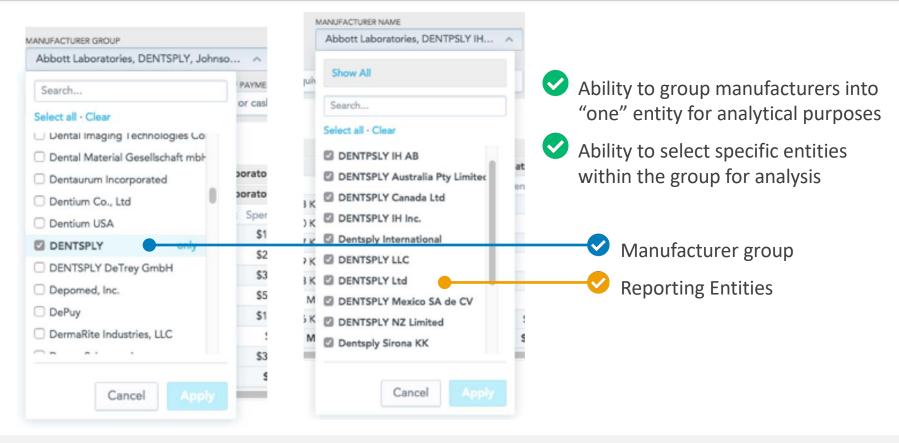
US HCP Competitive Spend Monitoring – CMS Data



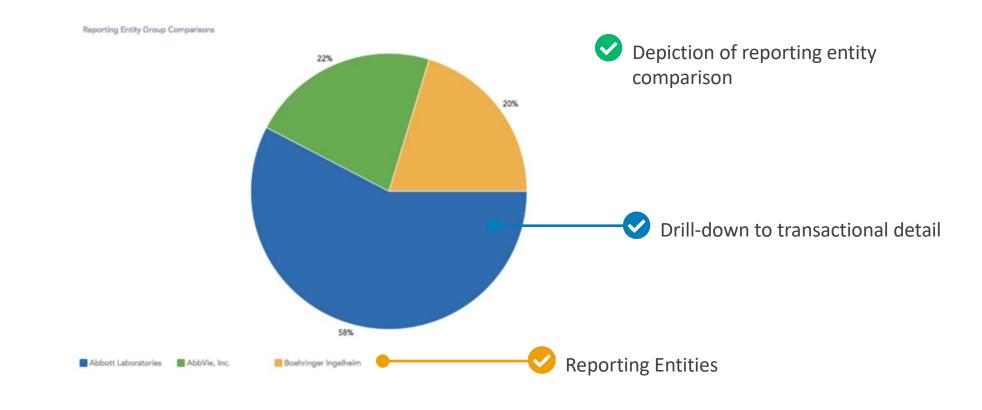
Benchmarking – View the market and your competitors



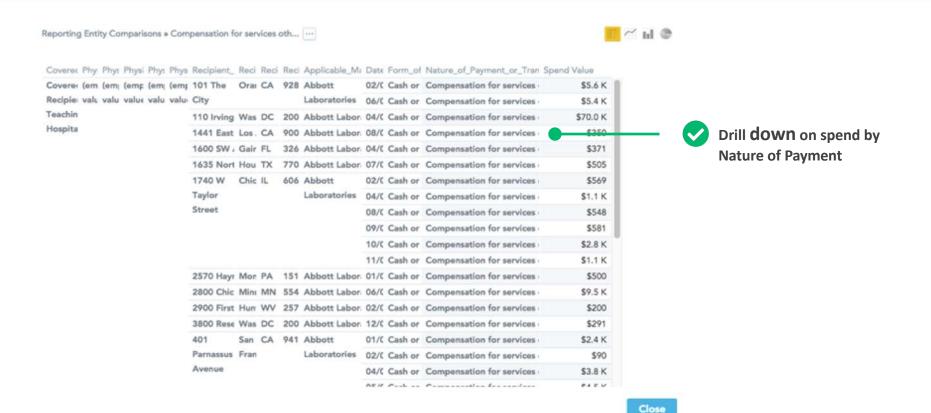
Benchmarking – View the market and your competitors



Benchmarking – Sizing Your Markets



Detailed view by Nature of Payment



Market Analysis By Nature of Payment

Manufacturer Group	Abbott Laboratories				
Manufacturer Name	Abbott Laboratories		Sum		
Nature Of Payment	TOV Count	Spend	TOV Count	Spend	
Charitable Contribution	6	\$104.3 K	6	\$104.3 K	
Compensation for services of	46	\$219.0 K	46	\$219.0 K	
Consulting Fee	30	\$300.7 K	30	\$300.7 K	
Education	25	\$547.9 K	25	\$547.9 K	
Grant	9	\$196.3 K	9	\$196.3 K	
Royalty or License	13	\$2.2 M	13	\$2.2 M	
Space rental or facility fees(t	88	\$397.6 K	88	\$397.6 K	
Sum	217	\$3.9 M	217	\$3.9 M	

Drill down on pie chart depicting summary of reporting entity by Nature of Payment

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Thank you.

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