MONTGOMERY COUNTY HOSPITAL DISTRICT MAXIMIZES DATA FLEXIBILITY AND RESOURCE SAVINGS WITH IMAGETREND DATA MART™

CUSTOMER OVERVIEW:

Montgomery County Hospital District (MCHD) is a leading healthcare organization in Texas committed to providing exceptional emergency medical services to the over 600,000 residents of Montgomery County. With a focus on efficiency and using data to drive the decision-making process, the District continuously seeks innovative solutions to enhance their operations and improve patient care.

Challenge:

Achieving data flexibility to standardize and combine organization-wide data can be a challenge. For organizations with data analysis expertise and wanting to do more with their data, taking analysis to the next level can also be a manual and time-consuming process without the right tools.

Solution:

To meet their data flexibility and integration needs, MCHD implemented ImageTrend Data Mart™, a star schema database solution, that replicates ImageTrend datasets for deeper investigation. With Data Mart, the District achieved remarkable results by seamlessly integrating data from their ImageTrend Elite™ ePCR with other District systems to leverage third-party analytic tools.

BENEFITS ACHIEVED:

UNPRECEDENTED DATA FLEXIBILITY:

Data Mart provided MCHD with unparalleled data flexibility. The District could now utilize additional tools, such as Tableau, Power BI and Stata, to analyze and visualize data, empowering them to make data-driven decisions quickly and efficiently.
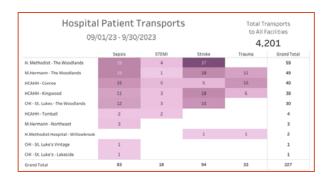
Michael Wells, EMS Data Reporting Analyst

The biggest benefit is having the complete flexibility to access your data with any tool you choose and to combine datasets any way you need."

IMAGE*TREND*®

ENHANCED INTEGRATIONS:

Data Mart enabled MCHD to seamlessly integrate data from Elite with other District data systems, resulting in improved workflows and streamlined processes. Wells elaborates, "Integrations to other systems are now possible with Data Mart. We have built integrations with Google Maps for mileage verification, Webex messaging for time-sensitive alerts and email notifications for crew members." This integration capability enhanced communication, reduced manual effort and ensured accurate and timely information exchange among various systems.

Hospital Patient Transports 09/01/23 - 9/30/2023				Total Transports to All Facilities 4,201	
	Sepsis	STEMI	Stroke	Trauma	Grand Total
H. Methodist - The Woodlands	19	4	37		59
M.Hermann - The Woodlands	19	1	18	11	49
HCAHH - Conroe	15	5	5	15	40
HCAHH - Kingwood	11	3	18	6	38
CHI - St. Lukes - The Woodlands	12	3	15		30
HCAHH - Tomball	2	2			4
M.Hermann - Northeast	3				3
H.Methodist Hospital - Willowbrook			1	1	2
CHI - St. Luke's Vintage	1				1
CHI - St. Luke's - Lakeside	1				1
Grand Total	83	18	94	33	227

Data Mart integrates Elite data in Tableau to power MCHD's Hospital Patient Transports dashboard, overviewing transport reason by receiving facility.

RESOURCE SAVINGS IMPACT

2 FTE positions in billing department

20 person-hours in quality department

RESOURCE SAVINGS:

By leveraging Data Mart's reporting and integration capabilities, MCHD achieved significant resource savings. Wells shares, "With Data Mart and the integrations we have built, we have saved approximately two FTE positions in the billing department due to improving current processes or having the ability to implement new automated processes that would have been costly in terms of human labor." Moreover, in the quality department, the District saved about 20 person-hours per month by automating a previously manual KPI report.

EFFICIENT RESEARCH PROJECTS: Data Mart empowered MCHD to streamline research projects and eliminate manual chart abstraction. Wells highlights, "With research projects, we have saved dozens of hours of manual chart abstraction because we can now pull exactly what we want from Data Mart." The ability to extract specific data with ease not only accelerated research timelines but also enabled the District to derive meaningful insights from their data quickly.

DATA MART'S IMPACT ON MCHD & WHAT OTHER ORGANIZATIONS CAN EXPECT

By implementing ImageTrend Data Mart, MCHD transformed their data management capabilities, achieving unprecedented data flexibility and realizing significant resource savings. The District's ability to access and integrate data with third-party analytic tools, coupled with the seamless integration with other systems, empowered them to make data-driven decisions efficiently. With Data Mart, MCHD remains at the forefront of innovation in healthcare, delivering exceptional emergency medical services to their community, while optimizing their operations based on actionable insights derived from their data.