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Knowledge Management & Data Literacy

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Knowledge Management & Data Literacy

Presented by Sony Shah Date 09/26/2018

A little Knowledge that acts is worth more than much knowledge that is idle.









Burning Platform







- Suite of tools, platforms and technology
- Uncertainty in report locations and ownership
- Duplicate, often redundant requests to multiple teams/individuals
- Need for faster turnaround times
- Accessibility

Challenges

- Maximize regional and system level analytics
- Specific needs of different ministries
- Over specification renders broader usability
- Much time spent by developers, analysts and end users in modifying reports
- Lack of bandwidth and/or resources

• Scope for training end users to effectively utilize system reports

Data Navigation

Data Literacy

- Disconnect between user requirements and what they ask for due to lack of analytic knowledge
- One size fits all approach does not meet all needs
- •5 Report drill downs not always contextual

• Non-uniform report nomenclature

Challenges

• Variable report design

Static Reporting

Inconsistency

• Report/platform outage/downtime

Knowledge Management

What Is it

The process of creating, sharing, using and managing the knowledge and information in Healthcare

What is the Goal

Knowledge Management goal is to enable caregivers to have ready access to organization's documented base of facts, sources of information and solutions



Data Literacy through Knowledge Management

 Data Literacy is essential to achieve strategic goals of an ever complex healthcare environment.

 Buy in of leadership and caregivers ensures high quality and constant analytics

 Knowledge Management practices, artifacts and tools facilitate and ensure an organization can make better healthcare decisions



Knowledge Management

Buy in

📫 🛛 Data Literacy

IJ∟ Providence IJ⊢ St.Joseph Health



Providence St Joseph Health - Implementation



Knowledge Management – Who is Responsible??



Data Literacy Components

Providence St.JosephHealth

Desired Outcome: to enable knowledge workers to collect, understand, interpret, and use data in a coherent, critical and strategic way and enable org to drive action to improve outcomes and sustain business

Knowledge Workers learn through Data literacy program

Business KPI definitions	Data Domain Data Model knowledge	Data Governance Workflows	Data Quality / Fit for use guidelines
Business Specific knowledge (ER/LAB, etc)	Regulatory Rules and requirements	Goals and External Benchmarks	Tool Use





Data literacy @ Providence St Joseph Health

Increasing awareness within PSJH organization of available data, reports, platforms and tools





Data Literacy Program Supports Analytics Strategy

Department

- Department Value to Organization: Increased Adoption of Solutions improving ROI of Analytics Value
 Proposition
- Knowledge Base: Expands Documentation for future use
- **Saves time**: reduces time caregivers spend answering FAQ. Team can share Knowledge base with help desk, and knowledge workers when asked.
- Trust in Data: Increases trust in data, Documentation reduces conflict when complicated questions arise

Individual - Each Analyst required to complete 4 per year - part of Performance Review (SMART Goals)

- **Exposure**: Creates engagement with community and builds stakeholder Relationships
- **Growing Skill Set:** Staff expand their skill sets by working on a variety of projects, become SME's for new subjects. Program makes learning and sharing part of their day to day Job requirement
- Leadership: Improves caregivers Speaking, Data Literary, and story telling ability

Knowledge Base and Career Growth

Specific Measurable Achievable Relevant Time-based Goals

Why it matters -

- Staff engagement Creates buy-in, reduces fear and produces a way for staff to know what to expect at performance time
- Accountability Creates clear expectations on deliverables
- Priorities Creates clear priorities for team, they are rewarded for completion of projects
- Strategic Plan Aligning goals of staff with strategic plan the organization ensures that everyone is supporting the strategic plan of our organization

Analytics 30 Various subjects (200 + to date)

Lens of the Consumer (Domain Solution Lists)

Sepsis Reports

• Diabetes Data & Reporting

•Behavioral Health Reports, Dashboards and Scorecards

Data Domains & Data use

• Finance - Payment and Charge Reconciliation

- Surgery Operating Room Analytics
- Supply Chain Medical Device Evaluation

Complicated Report Review (Bundle compliance)

- SSI-Surgical Site Infection Reports
- Predicting and Preventing Patient No Shows
- Financial Metrics Dashboard by Service Line & Payer Types

Special topics

- Epic to Clarity Overview
- Data lake
- •Global Codes Dx Px Dictionaries
- •Pathways to Data

HI Data Literacy Training Opportunities October – September 2018

The EDW Team is proud to present <u>several training opportunities</u> to members of Providence St Joseph Health. Led by Subject Matter Experts (SME), these training sessions will focus on specific subjects and are designed for all skill levels.

IMPORTANT: TO REGISTER - Please send an email to <u>HIDataLiteracy@stjoe.org</u> if you are interested in attending any of the sessions listed below. Include the title and date of the session you wish to attend. *Note*: *All times are Pacific Standard (PST)Unless otherwise noted*

Intro to EDW: An Overview (Webinar) – A web-based, short **30 minute** overview designed to help you determine which EDW applications or tools you will benefit from the most.

• Prerequisite: None

Date	Time	Торіс	Presenter
Monday, Oct 8 th 2018	11:00-11:30 (PST)	Intro to SJH EDW	Ankit Sheth
Monday, Nov 5 th 2018	11:00-11:30 (PST)	Intro to SJH EDW	Keshav Sharma
Monday, Dec 3 rd 2018	11:00-11:30 (PST)	Intro to SJH EDW	Ankit Sheth

<u>Amalga Hospital (On-Line)</u>: a web-based, interactive and in-depth, two-part course designed to help you create customized views, to quickly and easily access the patient data you need. Amalga Hospital gives you timely inpatient and outpatient data in one place, enabling you to make more informed decisions

- Prerequisite: Amalga Account (email <u>AskIT</u> for assistance on getting access)
- Recommended: Intro to EDW

Date	Time	Торіс	Presenter
Wednesday, Oct 10 th 2018	11:00-12:00(PST)	Amalga UIS # 1	Ankit Sheth
Wednesday, Oct 17 th 2018	09:30-10:30(PST)	Amalga UIS # 2	Keshav Sharma
Wednesday, Nov 14 th 2018	13:30–14:30 (PST)	Amalga UIS # 1	Keshav Sharma
Wednesday, Nov 28 th 2018	14:00–15:00 (PST)	Amalga UIS # 2	Ankit Sheth
Wednesday, Dec 12 th 2018	13:00–14:00 (PST)	Amalga UIS # 1	Ankit Sheth
Wednesday, Dec 19 th 2018	09:00-10:00 (PST)	Amalga UIS # 2	Keshav Sharma

■ Providence St.Joseph Health

Example

Schedule

	An	alytics 30 Training			Example Schedule
Date	Торіс	Intended Audience	Presenter	Facilitator	
Oct 9 th Tuesday 11:30-12:00	HI-PHIVE	Regional (PHS and affiliates) data stewards	Lynne Reimers	Ankit Sheth	
Oct 16 th Tuesday 11:30-12:00	Nutrition and Metabolic Disorder Reports	Nursing, Inpatient Admin Staff, Nutrition Staff, Patient Experience Staff	Rohit Bhatia	Ankit Sheth	
Oct 24 th Wednesday 11:30-12:00	Behavioral Health Study for DartNet (bundle reports for PHS and KHS written on PHS EDW)	Behavioral Staff (PHS and SJH), Report analysts and developers	Kris Ingersoll	Keshav Sharma	-
Oct 31 st Wednesday 11:30-12:00	Narcan (Naloxone) – Reversal of Opioid Overdose	Nursing Managers, Case Management, DSS, Patient Safety Officers, nurses	Sean Nguyen	Ankit Sheth	
Nov 6 th Tuesday 11:30-12:00	Metric Strategy for Callisto and Vantage	Developers, analysts, managers	Kathy Heider	Keshav Sharma	Providence St.JosephHeal

Sample outgoing training invite and Components

Subject: *Training* Analytic 30: Pathways to Ambulatory Data

Pathways to Ambulatory Data

- **Description:** This session is to provide an explanation of the ambulatory data available in the enterprise data warehouse. We will review content and existing business views.
- Intended Audience: Data analysts, Business Analysts, Knowledge Workers, Professional Services
- Presenter: Britt Pugh
- Facilitator: Keshav Sharma



Analytics 30 usage and statistics

- All sessions are recorded (WebEx)
- Slide-deck, recordings and other training material stored on Cloud (BOX)
- Track and document audience traffic





Providence St.Joseph Health



Current Training types

Total Trainings to dt. 187

Presenters > 20

Audience Last Year: 1000

On average 30 - 60

Plat	form / Too	ol spe	cific	Domain specific				
Complicated Report Review	Data Domains and Data Use		Lens of the Consumer	Amalga	Cognos	;	EDW basics	
New Solution Review		Special Topics		Staffhub		Tableau		



New topics and program expansion

 Quarterly brainstorming sessions to identify presentation topics / material (*Ensure new and Relevant content*)

- Next Steps:
 - Include analysts of PSJHS collaborative (Merger)
 - Identify new topics and subject matter based on presenter skill set / expertise (Newly Expanded team)



Program Coordination: Host account (web ex) <u>HIDataLiteracy@stjoe.org</u>

- Dedicated email and web ex accounts to
- Create and host training sessions
- Follow-up with audience with session material
- Address incoming session related requests / questions
- Conduct quarterly internal brainstorming for new topics / presentations
- Track and remind presenters for preparedness



By Diagnosis	• • •	Outpatient Service Line: Psychiatry Care Family: Mood Disorders / Addiction / Chemical Dependency CC: Depression, Alzheimer's Disease, Dementia HCC: Substance Abuse
By DRG	•	Service Line: Psychiatry
By Provider	•	Specialty: Psychiatry Physician Documentation: Query Name contains 'Psych'
By Location	•	Description contains 'Behavioral' / 'Psych'
By Orders	•	Ordered Procedure contains 'Psych'
By Charge Category	•	Description contains 'Psych'
By Nursing Documentation	•	Assessment contains 'Psych / Chemical Dependency'



By Care Family: Amalga Views

- Outpatient Service Line Filter Psychiatry
- Care Family Filter Mood Disorders / Addiction / Chemical Dependency etc.

1	DiagEnc_ALL_DIS	F	iter Sort	Shortcut 👻	Find	Zoom-in	Refresh	System 🔻			
9/1/20	16 - 9/15/2016 🔻 Cohorts	l Ir	nfo 🔻 Input 💌	Forms Admin -	Dashboard	Override	Resources	Tools 💌			
	CAREFAMILY	DXCOD	E (OXDESCRIPTION	OL	JTPATIEN DRG	DRG_DESCRIPT	TION ACCO	UNTSTATUS_PATIENTTYPE	ADMITDATETIME	DISCHARGEDATETIM
COV	Addiction/Chemical Dependency	F10.10	ALCOHOL ABUSE, U	NCOMPLICATED	Psy	rchiatry		DEP_E	R	09/10/2016 16:13	09/10/2016 17:14
cov	Addiction/Chemical Dependency	F17.210	NICOTINE DEPENDE	NCE, CIGARETTES, UNCOM	PLICATEL Psy	ychiatry		DEP_E	R	09/10/2016 16:13	09/10/2016 17:14
cov	Addiction/Chemical Dependency	F19.10	OTHER PSYCHOACT	IVE SUBSTANCE ABUSE, UN		/chiatry		DEP_E	R	09/10/2016 16:13	09/10/2016 17:14
COV	Mood Disorders	F41.9	ANXIETY DISORDER	UNSPECIFIED	Psy	/chiatry		DEP_E	R	09/10/2016 16:13	09/10/2016 17:14
COV	Mood Disorders	F32.9	MAJOR DEPRESSIVE	DISORDER, SINGLE EPISOI	DE, UNSPE Psy	/chiatry		DEP_E	R	09/15/2016 10:29	09/15/2016 14:27
COV	Mood Disorders	F41.9	ANXIETY DISORDER,	UNSPECIFIED	Psy	/chiatry		DEP_E	R	09/04/2016 01:52	09/04/2016 07:35
COV	Mood Disorders	F32.9	MAJOR DEPRESSIVE	DISORDER, SINGLE EPISOI	DE, UNSPE Psy	rchiatry		DEP_E	R	09/04/2016 01:52	09/04/2016 07:35
cov	Mood Disorders	F32.9	MAJOR DEPRESSIVE	DISORDER, SINGLE EPISOI	DE, UNSPE Psy	/chiatry		DEP_E	R	09/09/2016 14:37	09/09/2016 17:00
COV	Addiction/Chemical Dependency	F12.10	CANNABIS ABUSE, U	INCOMPLICATED	Psy	/chiatry		DEP_E	R	09/09/2016 14:37	09/09/2016 17:00
COV	Addiction/Chemical Dependency	F17.210	NICOTINE DEPENDE	NCE, CIGARETTES, UNCOM	PLICATED Psy	/chiatry		DEP_E	R	09/09/2016 14:37	09/09/2016 17:00
COV	Addiction/Chemical Dependency	F17.210	NICOTINE DEPENDE	NCE, CIGARETTES, UNCOM	IPLICATED Psy	/chiatry		DEP_E	R	09/14/2016 15:24	09/14/2016 17:32
COV	Mood Disorders	F32.9	MAJOR DEPRESSIVE	DISORDER, SINGLE EPISOR	DE, UNSPL Psy	rchiatry		DEP_E	R	09/14/2016 15:24	09/14/2016 17:32

Diagnosis Code Groupings:

- Care Family and Outpatient Service Line
 - Populated on all Hospital patients regardless of patient type, in 'Visit' views
- Chronic Conditions (CC) and Hierarchical Conditional Category (HCC)
 - o Populated in Data Dictionary Diagnosis view

CD_FLAG	CODE	OUTPATIENT_SERVICE_LINE	CARE_FAMILY	DESCRIPTION	CMS_CC_NAME	HCC_SHORT_NAME	HCC_LONG_NAME
CD-10	V79.0	Mood Disorders	Psychiatry	DRIVER OF BUS INJURED IN COLLISION W OTH AND * DC	UNKNOWN	NA	NA
CD-10	V79.0	Mood Disorders	Psychiatry	DRIVER OF BUS INJURED IN COLLISION W OTH AND * DO	UNKNOWN	NA	NA
CD-10	T40.69	Psychiatry	Addiction/Chemical Dependency, OB/Fetal	POISONING BY OTHER NARCOTICS, ASSAULT, INITIAL ENG	UNKNOWN	NA	NA
CD-10	T40.69	Psychiatry	Addiction/Chemical Dependency, OB/Fetal	POISONING BY OTHER NARCOTICS, UNDETERMINED, INIT	UNKNOWN	NA	NA
CD-10	F15.92	Psychiatry	Addiction/Chemical Dependency	OTHER STIMULANT USE, UNSP WITH INTOXICATION, UNC	UNKNOWN	Substance Abuse	Drug/Alcohol Dependence
CD-10	F15.92	Psychiatry	Delirium/Dementia/Amnestic/Other Cognitive Disorder	OTHER STIMULANT USE, UNSPECIFIED WITH INTOXICATIO	UNKNOWN	Substance Abuse	Drug/Alcohol Dependence
CD-10	F15.92	Psychiatry	Addiction/Chemical Dependency	OTH STIMULANT USE, UNSP W INTOX W PERCEPTUAL DIS	UNKNOWN	Substance Abuse	Drug/Alcohol Dependence
CD-10	F15.92	Psychiatry	Addiction/Chemical Dependency	OTHER STIMULANT USE, UNSP WITH INTOXICATION, UNS	UNKNOWN	Substance Abuse	Drug/Alcohol Dependence
CD-10	F15.93	Psychiatry	Addiction/Chemical Dependency	OTHER STIMULANT USE, UNSPECIFIED WITH WITHDRAWA	UNKNOWN	Substance Abuse	Drug/Alcohol Dependence

Example 2

Behavioral Health Services - MH

Summary Metadata								
	Rehavioral Health Se	Payor		Service (All) Chem Dep Eating Disorder Psych	Age Group (AI) Adolescent Adult Senior	Reference F	Reference FY	
St.JosephHealth	Denavioral mealth Se	(All)	•			2016	*	
	Summary Data Range: 7/1/2012 - 8/31/2016 Last Undate: 9/	9/2016				In/Out Patier	nt	
	Bata Range. In hzerz Genzere East opdate. Sk					(All)		

Inpatient Outpatient Grand Total s FYTD 1,623 976 2,599 s PYTD 2,078 902 2,980 s PAtient Revenue 44,390,091 11,401,325 55,791,416 1,5 ents 9,626,960 2,753,859 12,380,819 1 alance 1,759,576 932,084 2,691,659 1 evenue 10,145,074 3,098,678 13,243,752 1 evenue per Case 6,251 3,175 5,096 1.0 t Cost 13,087,031 1,441,755 14,528,785 1 t Cost 13,087,031 1,656,917 (1,285,046) 5 t Cost 5,114,932 604,244 5,719,176 5 Cost 18,201,963 2,045,998 20,247,961 5 Cost per Case 11,215 2,096 7,791 5 come_Loss FYTD (8,056,889) 1,052,679 (7,004,210) 5 come_Loss PYTD (6,647,793) 1,375,895 (5,271,898) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
s FYTD 1,623 976 2,599 s PYTD 2,078 902 2,980 s PAtient Revenue 44,390,091 11,401,325 55,791,416 1,5 ents 9,626,960 2,753,859 12,380,819 1,6 alance 1,759,576 932,084 2,691,659 1,6 evenue 10,145,074 3,098,678 13,243,752 1,0 evenue per Case 6,251 3,175 5,096 1,0 t Cost 13,087,031 1,441,755 14,528,785 1,0 t Cost per Case 8,063 1,477 5,590 1 ibution Margin (2,941,963) 1,656,917 (1,285,046) 5 cost 5,114,932 604,244 5,719,176 5 Cost 18,201,963 2,045,998 20,247,961 5 Cost per Case 11,215 2,096 7,791 1 come_Loss FYTD (8,056,889) 1,052,679 (7,004,210) 1 come_Loss PYTD (6,647,793)		Inpatient	<u>Outpatient</u>	<u>Grand Total</u>		
s PYTD 2,078 902 2,980 a Patient Revenue 44,390,091 11,401,325 55,791,416 1,5 ents 9,526,960 2,753,859 12,380,819 1 alance 1,759,576 932,084 2,691,659 evenue 10,145,074 3,098,678 13,243,752 evenue per Case 6,251 3,175 5,096 t Cost 13,087,031 1,441,755 14,528,785 t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) vct Cost 5,114,932 604,244 5,719,176 Cost per Case 11,215 2,096 7,791 iccome.Loss FYTD (8,056,889) 1,052,679 (7,004,210) iccome.Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Cases FYTD	1,623	976	2,599		1
a Patient Revenue 44,390,091 11,401,325 55,791,416 1,5 ents 9,526,960 2,753,859 12,380,819 1,5 alance 1,759,576 932,084 2,691,659 1,6 evenue 10,145,074 3,098,678 13,243,752 1,0 evenue per Case 6,251 3,175 5,096 1,0 t Cost 13,087,031 1,441,755 14,528,785 1,0 t Cost per Case 8,063 1,477 5,590 1,0 ibution Margin (2,941,963) 1,656,917 (1,285,046) 5 cost 5,114,932 604,244 5,719,176 5 Cost 18,201,963 2,045,998 20,247,961 5 cost per Case 11,215 2,096 7,791 5 cost per Case 11,215 2,096 7,791 5 cost per Case 11,215 2,096 7,791 5 come_Loss FYTD (6,647,793) 1,375,895 (5,271,898) 5	Cases PYTD	2,078	902	2,980		ſ
ents 9,626,960 2,753,859 12,380,819 alance 1,759,576 932,084 2,691,659 evenue 10,145,074 3,098,678 13,243,752 evenue per Case 6,251 3,175 5,096 t Cost 13,087,031 1,441,755 14,528,785 t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) cost 5,114,932 604,244 5,719,176 Cost per Case 11,215 2,096 7,791 cost per Case 11,215 2,096 7,791 cost per Case 11,215 2,096 7,791 come/Loss FYTD (8,056,889) 1,052,679 (7,004,210) come/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Gross Patient Revenue	44,390,091	11,401,325	55,791,416	1,500	
alance 1,759,576 932,084 2,691,659 evenue 10,145,074 3,098,678 13,243,752 evenue per Case 6,251 3,175 5,096 t Cost 13,087,031 1,441,755 14,528,785 t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) cost 5,114,932 604,244 5,719,176 Cost per Case 11,215 2,096 7,791 iccome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) iccome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Payments	9,626,960	2,753,859	12,380,819		
evenue 10,145,074 3,098,678 13,243,752 evenue per Case 6,251 3,175 5,096 t Cost 13,087,031 1,441,755 14,528,785 t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) vct Cost 5,114,932 604,244 5,719,176 Cost per Case 11,215 2,096 7,791 come/Loss FYTD (8,056,889) 1,052,679 (7,004,210) ccome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	AR Balance	1,759,576	932,084	2,691,659		
evenue per Case 6,251 3,175 5,096 1.0 t Cost 13,087,031 1,441,755 14,528,785 15,599 15,599 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745 14,528,745,759 14,528,749,759 14,528,749	Net Revenue	10,145,074	3,098,678	13,243,752		
t Cost 13,087,031 1,441,755 14,528,785 t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) tct Cost 5,114,932 604,244 5,719,176 Cost 18,201,963 2,045,998 20,247,961 Cost per Case 11,215 2,096 7,791 iccome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) iccome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Net Revenue per Case	6,251	3,175	5,096	1,000	
t Cost per Case 8,063 1,477 5,590 ibution Margin (2,941,963) 1,656,917 (1,285,046) ict Cost 5,114,932 604,244 5,719,176 5 Cost per Case 11,215 2,096 7,791 iccome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) iccome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Direct Cost	13,087,031	1,441,755	14,528,785		
ibution Margin (2,941,963) 1,656,917 (1,285,046) 5 act Cost 5,114,932 604,244 5,719,176 5 Cost 18,201,963 2,045,998 20,247,961 5 Cost per Case 11,215 2,096 7,791 accome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) accome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Direct Cost per Case	8,063	1,477	5,590		
set Cost 5,114,932 604,244 5,719,176 5 Cost 18,201,963 2,045,998 20,247,961 7 Cost per Case 11,215 2,096 7,791 Iccome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) Iccome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Contribution Margin	(2,941,963)	1,656,917	(1,285,046)		
Cost 18,201,963 2,045,998 20,247,961 Cost per Case 11,215 2,096 7,791 icome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) icome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	ndirect Cost	5,114,932	604,244	5,719,176	500	
Cost per Case 11,215 2,096 7,791 icome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) icome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Total Cost	18,201,963	2,045,998	20,247,961		
Icome/Loss FYTD (8,056,889) 1,052,679 (7,004,210) Icome/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Total Cost per Case	11,215	2,096	7,791		
come/Loss PYTD (6,647,793) 1,375,895 (5,271,898)	Net Income/Loss FYTD	(8,056,889)	1,052,679	(7,004,210)	0	
	Net Income/Loss PYTD	(6,647,793)	1,375,895	(5,271,898)		



Example 2

Behavioral Disorders - SRM





Raw Numbers SRM ED Behavioral Disorders

Month of Arrivaldate

Behavioral Disorders Custom	July 2015	August 2015	Septembe r 2015	October 2015	Novembe r 2015	Decembe r 2015	January 2016	February 2016	March 2016	April 2016	May 2016	Grand Total
Addiction/Chemical Depend	131	148	152	168	112	144	134	129	156	119	170	1,563
Anxiety and Personality Dis	53	46	56	59	57	55	63	64	60	47	55	615
Autism		1		1								2
Dementia and Cognitive Dis	27	32	21	30	23	30	18	28	28	27	20	284
Eating Disorders							2					2
Learning Disorders		1			1							2
Mood Disorders	23	30	22	33	29	15	31	20	35	30	12	280
NA	3,716	3,628	3,690	3,464	3,348	3,426	3,818	3,688	3,698	3,599	3,804	39,879
Psychosis	14	10	13	8	18	7	7	10	9	9	13	118
Grand Total	3,964	3,896	3,954	3,763	3,588	3,677	4,073	3,939	3,986	3,831	4,074	42,745

Data / Domain: Analytics 30 Example Operating Room Dashboard

Example 3

Challenge

- Results of several research studies indicate that ORs account for about 35 percent of total hospital costs and 60 percent of revenues with utilization at roughly 70 percent.
- OR Director and Data Analysts are spending several hours each week/month pulling data and updating reports for OR Stats to send to Administration.
- Operating and financial metrics summaries not available in the same visualization for quick review.

Solution

 Develop a OR dashboard to provide comparative analysis of cases, surgical minutes, patient volume, & financial data with emphasis on service lines and payor dimensions.

Results

- Save time on weekly/monthly compilation of data.
- · Provide easy access to more timely/real time data
- Help with operational decisions and improvements
- Give greater visibility of how we're tracking and where to focus to achieve budgetary goals.



Analytics 30 Example: View 1 - Summary View Drill Down

- For E.g. Clicking on the "General" Service Line will update table below to Volume by table metric type "Payor" - Annual Averages, Volume % of Total and Year-over-Year % difference metrics available for quick comparison.



	Totals		Averages			% of Tota	al Totals alo (Down)	ng Table	% Difference in Totals from the Previous along Table (Across)		
2015	2016	2017	2015	2016	2017	2015	2016	2017	2015 2016	2017	
40	56	56	3.3	4.7	4.7	5.9%	7.9%	6.8%	40.0%	0.0%	
30	36	27	2.5	3.0	2.3	4.4%	5.1%	3.3%	20.0%	(25.0%)	
87	106	72	7.3	8.8	6.0	12.9%	14.9%	8.8%	21.8%	(32.1%)	
142	153	204	11.8	12.8	17.0	21.0%	21.5%	24.9%	7.7%	33.3%	
15	26	37	1.3	2.4	3.1	2.2%	3.7%	4.5%	73.3%	42.3%	
37	46	69	3.1	3.8	5.8	5.5%	6.5%	8.4%	24.3%	50.0%	
57	53	60	4.8	4.4	5.0	8.4%	7.5%	7.3%	(7.0%)	13.2%	
19	19	10	1.6	1.9	1.0	2.8%	2.7%	1.2%	0.0%	(47.4%)	
81	68	79	6.8	5.7	6.6	12.0%	9.6%	9.6%	(16.0%)	16.2%	
163	141	193	13.6	11.8	16.1	24.1%	19.8%	23.6%	(13.5%)	36.9%	
4	7	12	0.4	0.7	1.0	0.6%	1.0%	1.5%	75.0%	71.4%	
675	711	819	56.3	59.3	68.3	100.0%	100.0%	100.0%	5.3%	15.2%	
	2015 40 30 87 142 15 37 57 57 19 81 163 4 675	Totals 2015 2016 40 56 30 36 87 106 142 153 15 26 37 46 57 53 19 19 81 68 163 141 4 7 675 711	Totals 2015 2016 2017 40 56 56 30 36 27 87 106 72 142 153 204 15 26 37 37 46 69 57 53 600 19 19 10 81 68 79 163 141 193 4 7 12 675 711 819	Totals 2015 2016 2017 2015 2015 2016 2017 2015 40 56 56 3.3 30 36 27 2.5 87 106 72 7.3 142 153 204 11.8 15 26 37 1.3 37 46 69 3.1 57 53 60 4.8 19 19 10 1.6 81 68 79 6.8 163 141 193 13.6 4 7 12 0.4 675 711 819 56.3	Totals Averages 2015 2016 2017 2015 2016 40 56 56 3.3 4.7 30 36 27 2.5 3.0 87 106 72 7.3 8.8 142 153 204 11.8 12.8 37 46 69 3.1 3.8 57 53 600 4.8 4.4 19 19 10 1.6 1.9 81 68 79 6.8 5.7 163 141 193 13.6 11.8 4 7 12 0.4 0.7 675 711 819 56.3 59.3	Totals Averages 2015 2016 2017 2015 2016 2017 40 56 56 3.3 4.7 4.7 30 36 27 2.5 3.0 2.3 87 106 72 7.3 8.8 6.0 142 153 204 11.8 12.8 17.0 15 26 37 1.3 2.4 3.1 37 46 69 3.1 3.8 5.8 57 53 600 4.8 4.4 5.0 19 19 10 1.6 1.9 1.0 81 68 79 6.8 5.7 6.6 163 141 193 13.6 11.8 16.1 4 7 12 0.4 0.7 1.0 675 711 819 56.3 59.3 68.3	Totals Averages % of Totals 2015 2016 2017 2015 2016 2017 40 56 56 3.3 4.7 4.0 5.9% 30 36 27 2.5 3.0 2.3 4.4% 87 106 72 7.3 8.8 6.0 12.9% 142 153 204 11.8 12.8 17.0 21.0% 15 26 37 1.3 2.4 3.1 2.2% 37 46 69 3.1 3.8 5.8 5.5% 57 53 60 4.8 4.4 5.0 8.4% 19 19 10 1.6 1.9 1.0 2.8% 81 68 79 6.8 5.7 6.6 12.0% 163 141 193 13.6 11.8 16.1 24.1% 4 7 12 0.4 0.7 1.0	Totals Averages % of Total Totals are (Down) 2015 2016 2017 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2017 2015 2016 2017 2015 2017 2015 2016 2017 2015 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016	Totals Averages % of Total Totals along Table (Down) 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2015 2015 2015 2015 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2015 2016 2016 2017 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 2016 21.0% <th>Totals 2015 2016 2017 2015 2016 2017 2015 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 <</th>	Totals 2015 2016 2017 2015 2016 2017 2015 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2017 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 2015 2016 <	

Providence St.Joseph Health

Analytics 30 Example: View 2 - 2-D Matrix Report

- View is designed to display case volume or OR minutes for any user selected dimension.
- User can choose the dimension for Rows and Columns display for the selected metric.

User selects Dimensions for	St.JosephHealth	Operating 2-D Matrix Data Range: 1/1/2014 - 5	Operating Room 2-D Matrix Data Range: 1/1/2014 - 5/8/2018 Last Update: 5/9/2018									
rows and columns	Select Metric (Rows) Select Metric (Cols)	Vol / Min Ca	Campus Patient Type	Admit Type ER Patient Trauma	Case Type Year							
	Service Line Health Plan	▼ Minutes ▼ (/	(All) 🔻 (All) 🔻	(All) • (All) • (All)	▼ (All) ▼ (Multiple val ▼							

Service Line Minutes by Health Plan

	Aet	na	Blue (Cross	Blue	Shield	Cig	na	Mana Sen	aged ior	Medi	-Cal	Medi-Ca	al Mgd	Medi	care	MHMG/	MHAP	MHMG/ Sen	MHAP ior	Mona	rch	Oth	ier
Selected Metric (Rows)	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	201
CARDIOVASCULAR	2,777	836	5,437	2,071	6,842	2,288	1,483	895	9,513	4,254	5,658	1,550	2,892	1,422	23,911	6,549	1,578	2,260	6,235	3,801	1,513	50	1,189	22
DENTAL			189	199	257		155		100		74	83	83		195	174	27	73	164			36		
ENDOSCOPY	135	29	727	127	522	51	237	37	1,276	305	678	25	908	75	2,744	985	179	34	291	62	119	60	50	
ENT	3,082	597	4,764	684	3,861	1,134	966	538	3,545	849	330	230	9,551	3,401	5,222	2,101	1,009	883	920	336	2,150	660	139	12
GENERAL	8,166	3,006	26,729	14,602	24,317	12,044	7,100	2,167	25,781	7,453	14,027	2,731	23,325	6,430	59,503	24,986	16,217	4,437	24,559	4,707	7,688	1,681	5,301	1,32
NEURO	889	274	4,214	1,961	4,441	3,466	381	55	6,462	2,166	1,349	178	3,882	3,672	13,597	3,953	1,871	824	1,856	940	4,085	828	2,055	63
OB/GYN	3,173	529	6,562	3,429	6,179	1,877	1,105	294	742		1,617	423	11,356	2,539	3,789	1,336	6,381	1,780	886	716	1,823	184	1,098	2
ORAL/MAXILLO/FACIAL	478		934	1,048	1,203	593	131	143	467	1,221	447	275	1,256	201	916	26	463	335			2,292	727	184	18
ORTHO	6,681	2,155	33,821	9,379	31,794	9,038	5,202	612	30,063	10,137	10,214	2,118	14,491	2,211	#######	38,275	11,687	3,477	22,209	7,608	1,684	1,299	12,400	4,64
PAIN MGMT			194	49	283				333						420	266			50	147				2
PLASTICS	294	180	1,771	389	947	1,095	963	57	494		1,905	281	2,456	859	3,098	1,109	3,639	154	2,468	273	497		1,578	41
PODIATRY		116	167		355	226			144	79	45		376		714	277	926	86	651	165		165	273	5
SPINE	6,208	1,595	19,500	10,907	24,993	7,736	5,341	2,016	25,726	10,913	1,981	161	13,998	3,884	66,666	24,753	9,160	1,524	15,129	5,183	6,129	2,384	8,790	1,32
THORACIC	897	523	2,477	1,903	2,702	904	1,104	543	3,821	2,139	1,233	425	3,006	1,040	9,650	4,051	701	132	1,956	873	757	133	1,797	1,55
UROLOGY	3,360	713	5,781	1,578	4,132	1,408	1,333	835	4,253	2,042	459	367	2,479	332	17,375	6,487	2,701	1,117	2,895	1,879	1,055	126	389	
VASCULAR	499		371	272	188	261	101		1,744	495		78	89	203	5,529	2,189	103		2,247	273	458			
Grand Total	36,639	10,553	######	48,598	######	42,121	25,602	8,192	######	42,053	40,017	8,925	90,148	26,269	######	######	56,642	17,116	82,516	26,963	30,250	8,333	35,243	10,52
	<																							>

Analytics 30 Example: View 3 - Room Utilization Minutes

- 7 Day weekly display of operating room minutes by Room Mnemonic -
- Bar length indicates number of minutes used by the Room. -
- User has the ability to go back to historical weekly data -

Operating Room



Hovering on the bar chart shows room specific utilization details



3

Analytics 30 Example: Executive Summary Year-over-Year Case Volume View

	Case	es	% of Ca	ses			
	2017	2018	2017	2018	Chg	%Chg	
CARDIOVASCULAR	7.0	9.0	2%	2%	2	29%	
DENTAL		1.0		0%	1		
ENDOSCOPY	8.0	3.0	2%	1%	(5)	(63%)	
ENT	25.0	24.0	7%	6%	(1)	(4%)	1) Case Volume and % of
GENERAL	97.0	102.0	27%	27%	5	5%	Veerly Ceee Velume
NEURO	11.0	15.0	3%	4%	4	36%	reany Case volume.
OB/GYN	25.0	24.0	7%	6%	(1)	(4%)	2) Change in case volume
ORAL/MAXILLO/FACIAL	1.0	4.0	0%	1%	3	300%	current and prior year.
ORTHO	92.0	90.0	25%	23%	(2)	(2%)	
PAIN MGMT	1.0	1.0	0%	0%	0	0%	
PLASTICS	16.0	8.0	4%	2%	(8)	(50%)	
PODIATRY	1.0	5.0	0%	1%	4	400%	
SPINE	41.0	53.0	11%	14%	12	29%	
THORACIC	13.0	14.0	4%	4%	1	8%	
UROLOGY	25.0	27.0	7%	7%	2	8%	
VASCULAR	1.0	3.0	0%	1%	2	200%	
Grand Total	364.0	383.0	100%	100%	19	5%	
							Iop 3 Service
Top 3 Service Lines	: GENE	ERAL C	RTHO	SPINE			Volume
lighest Change:	SPINE	12	_				
J						Service lir	e's with
owest Change:	PLASTIC	CS (8)			highest ar	lowest case

Example

for

Analytics 30 Example: View 4 - Surgeon/Procedure Tree Map

- Tree Map provides at a glance, the Volume and Average Contribution Margin by Surgeon.
- Size of the rectangles in the tree map is indicative of the Surgeon Volume

Operating Room

Color is indicative of the Average Contribution Margin(Avg CM).



Example

3

🧮 Analytics 30 Example: View 5 - Surgeon Key Metrics Dashboard





Analytics 30 Example: SSI: Surgical Site Infections



What is an SSI?

A surgical site infection (SSI) is an infection that occurs after surgery in the part of the body where the surgery took place. Many SSIs are superficial infections involving the skin only. Other surgical site infections are more serious and involve tissues under the skin ("deep"), organs ("organ space"), or implanted material (such as following hip or knee replacement surgery), and usually result in continued or rehospitalization.



https://www.cdph.ca.gov/Programs/CHCQ/HAI/CDPH%20Document%20Library/4_SSI.Prevention_Approved10.09.17-ADA.pdf



Analytics 30 Example: SSI Reports

Report	Source	Link
SSI_DataValidation_HAI_Read missionIndex	Cognos	http://reports- prod.stjoe.org/ibmcognos/bi/?pathRef=.public_folders%2FData+Delivery%2FCorporate+Standard+Reports %2FClinical%2FInfection+Control%2FSSI_DataValidation_HAI_ReAdmissionIndex&format=spreadsheetML &prompt=true&action=run
SSI_DataValidation_HAI_Admi ssionIndex	Cognos	http://reports- prod.stjoe.org/ibmcognos/bi/?pathRef=.public_folders%2FData+Delivery%2FCorporate+Standard+Reports% 2FClinical%2FInfection+Control%2FSSI_DataValidation_HAI_AdmissionIndex&format=spreadsheetML&pro mpt=true&action=run
SSI_DataValidation_CPT_ReA dmissionIndex (new)	Cognos	http://reports- prod.stjoe.org/ibmcognos/bi/?pathRef=.public_folders%2FData+Delivery%2FCorporate+Standard+Reports% 2FClinical%2FInfection+Control%2FSSI_DataValidation_CPT_ReAdmissionIndex&format=HTML&prompt=tr ue&action=run
SSI_DataValidation_HAI_Antib iotic	Cognos	http://reports- prod.stjoe.org/ibmcognos/bi/?pathRef=.public_folders%2FData+Delivery%2FCorporate+Standard+Reports% 2FClinical%2FInfection+Control%2FSSI_DataValidation_HAI_AntiBiotic&format=spreadsheetML&prompt=tru e&action=run



How Data is used?



Mandated by CDPH to monitor specific surgeries with specific diagnoses. Specifications and recommendations provided by CDPH

1. Infection Prevention (IP) run SSI reports on a monthly basis, then review each patient to see if they meet criteria for CDPH. If they do, then information is submitted to NHSN data base (CMS & CDPH use this data. CDC owns the NHSN data

2. If infection rate is high, ministry will implement an Action Plan* –E.g., Quality Tracker and Improvement Plan (Q TIP) ***Specific to ministry**

2018 QUALITY TRACKER AND IMPROVEMENT PLAN (Q TIP)

Ministry:	Date: June 30th, 2018
Metric: HAI infection prevention	Metric Owner:
Actual: met the goal; did not meet the goal	Physician Sponsor:
Target: SIR < 1 for all HAI categories	Executive Sponsor:
Data Source: Tableau, NHSN	Committee/Taskforce Responsibility Infection prevention



Analytics 30 Example: Future SSI Reports/Dashboards

Providence Health & Service -Inpatient Quality (IPQ) Dashboard Currently set up for Providence only, SJH to be added in future https://tableauserver.providence.org/#/workbooks/38565/views





System

Alaska





Analytics 30 Example: What is ETL? And how does it work?





Full:

- Mostly static data
- All data extracted, overwritten every time
- Typically weekly
- Example: BED master file

Incremental:

- Particularly dynamic data
- Only the data that has changed
- is extracted/loaded
- Typically daily
- Examplé: EPT master file

Analytics 30 Example: Epic to Clarity - Instances

3 Epic Instances

- Alaska AK
- Oregon / California OC
- Washington / Montana WM



Example

Nightly ETL into 1 Clarity DB



Database: EDW Introductory training

Web-based, short 30 minute overview designed to help you determine which EDW applications or tools best address your business/clinical need





Example 6

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Database : Clinical/ Financial Analytics DBs

- Analytics Database created for Self Service Reporting
- Analytics Database is split into 2 areas:
 - Clinical Contains Clinical data
 - Financial Contains Financial data
- Analytics Database has 3 Tables for each set of data:
 - Outbound: Contains Transformed data
 - Error: Contains records that errored out and did not make it to Outbound table
 - Staging: Data from EDW is extracted and transformed before loading to Outbound tables
 - Image: Book and Annual States and Annual Stat
- - 🗉 🔟 dbo.Encounter_All_ADM_Outbound_Staging



Database : Clinical Analytics

Table
DiagEnc_ALL_ADM_Outbound
CPTEnc_All_Adm_Outbound
CPT_MDR_CPTDATE_Outbound
Validation ABS AdmVisitOrders_Outbound
ProcEncounter_ALL_ADM_Outbound
MCPathBBPt_All_ADM_Outbound
ENCOUNTERS_PHYS_MDR_ADM_Outbound
Encounter_All_ADM_Outbound
QryIntVisitPT_All_Activity_Outbound
MedAdminMAR_All_Adm_Outbound
AdmVisits_Outbound
EDM_EdMetricsStandard_Tbl
ADMVisit_ALL_Insurance_Guarantor_Outbound
LabEnc_LabOrders_Dis_Outbound
ORProc_NHSN_Proc_Outbound

Definition
Has Diagnosis data for all Encounters by Admit Date
Has CPT Data for Encounters by Admit Date
Has CPT data for Visits by CPT Date
Visit order data
Has Procedures data for all Encounters
Has Pathology and Blood Bank data for admitted patients
Physician data for all Encounters by Admit Date
Encounter data by Admit Date
Contains Query level data for Inpatient Visits
Data for Medications Administered by Admit Date
Data for Admitted patients
Data for ED Metrics and Events Dashboard
Has Insurance data for Admitted patient visits
Has Lab and Orders data combined for all Encounters by Discharged Date
Has OR Procedures data by Procedure Date

Database : Financial Analytics

Table	Definition
BarBchTxnItems_Payment_Outbound	Transactional data for Payments from BAR
BarBchTxnItems_Charge_Outbound	Transactional data for Charges from BAR
BarBchTxnItems_Adjust_Outbound	Transactional data for Adjustments from BAR
SJHS_CHGCOST_ENCOUNTER_ADM_HHF_Outbound_ Archive	Charges and Cost data foe Heritage Encounters
EMPI	EMPI (Enterprise Master Patient Index) from IDX
Dictionary ChargeMaster PMM Crosswalk Outbound	Crosswalk between Charge Master and PMM data (Items and Charge Codes)
Barl IniqueClaimReferenceData, Outbound	Claims, and Insurance data from BAR
SJHS_ChgCostSumVisitPt_All_Adm_HHF_Outbound	Charges and Cost realted to Visits for Heritage
SJHS_CHGCOST_ENCOUNTER_ADM_HHF_Outbound_ 20170417	Charges and Cost realted to Encounter for Heritage
SJHS_CHGCOST_ENCOUNTER_ADM_Outbound	Charges and Cost related to Encounters

Reporting Tools : Amalga Hospital training

Web-based, interactive and in-depth, two part course designed to help you create customized views, to quickly and easily access the patient data you need. Amalga Hospital gives you timely inpatient and outpatient data in one place, enabling you to make more informed decisions you will benefit from the most.

One View											Apps	Logout
CneView #2	(visit_ip_none)	Filter Sort	Shortcut •	Find Zoo	m-in ▼ Ra	efresh S	iystem 💌				ADM	Total
None	✓ All ro	Info Dashboard	Nav	vigator Section							4086	4299
ACCOUNTSTAT	AD	MITCOMPLAINT	ADMITDATETI	AD	AD	AD	AD	AD	AD	AGE	AGE	IA
ADM	ABDOMINAL MASS, DE	HYDRATION,	06/03/2009 06:38	7	EMERGENCY	ER	Prasannan, L	PRALAX	1	12	12M	Prasa
ADM	SEVERE LEFT CAROTID	OCCLUSIVE DISEASE	05/21/2009 14:19	н	HOME 1	PHYREF	Palmer, Mich	PALME	UR	56	56F	Palme
ADM	PE		06/03/2009 02:03	н	HOME	PHYREF	Guu, Huan	GUUHU	ER	66	66M	Guu, I
ADM	CHRONIC OBSTRUCTIV	E PULMONARY DISEASE ACUTE								64	64M	Veera
ADM	COPD/PNEUMONIA									62	62M	Santo
ADM	DEHYDRATION			D	ata Grid	Sectio	n			3	3M	Mcgu
ADM	NORMAL NEWBORN									0	OF	Cabre
ADM	PREGNANCY EDD 6-24-	09 STATUS POST FALL FAINTIN								33	33F	Linzey
ADM	TOTAL RESECTION OF M	NECK MASS		_	_				_	18	18F	Wong
ADM	OVARIAN TORSION		06/02/2009 13:53	н	HOME	PHYREF	Emad, Lela M	EMALE	ER	14	14F	Emad
ADM	RUPTURE OF MEMBRAN	NES	04/17/2009 05:25	н	HOME 1	PHYREF	Anderson, Ja	ANDJA	OB	22	22F	Ander
ADM	PROCTOCOLITIS		04/14/2009 05:30	PHY	PHY/DA/OU	PHYREF	Coutsoftides	COUTH	EL	36	36F	Couts
ADM	NEWBORN		02/11/2009 13:11	E	UNKNOWN	UNK	Caliendo, Th	CALTH	NB	0	OF	Calier
ADM	PLEURAL EFFUSION		06/01/2009 18:56	4	TRANSFER F	XTR	Tello, Wael	TELWAX	2	79	79M	Tello,
ADM	KAWASAKI DISEASE		05/27/2009 23:18				Pathare, San	PATHS		6	6M	Patha
ADM	RESOLVED VENTRICLE	HEMORRHAGE	06/02/2009 17:36	AC.UCSF	ACUTE CARE	XTR	Rangel, Rosz	RANRO	UR	71	71F	Range
ADM	PERFORATED APPENDIX	CITIS	04/10/2009 14:22	LAW	COURT/LAW	LAW	Wenneker, V	WENWE	ER	15	15M	Wenn
ADM	LABOR		06/01/2009 13:35	PHY	PHY/DA/OU	PHYREF	Gray, Brian (GRABR	OB	35	35F	Gray,
ADM	LABOR		04/21/2009 18:08	н	HOME	PHYREF	Dieterich, Fn	DIEFR	OB	29	29F	Dieter

Reporting Tools : Cognos training

Web-based, short 30 minute overview designed to go over IBM Cognos platform, reports and

underlying features for user/team's reporting needs.

- Faster report generation
- Organization and grouping by departments (global)
- User acceptance testing environment access
- Test new reports in development and provide feedback and validates update/fixes to existing reports before they are promoted to production



Example

http://reports-prod.stjoe.org/ibmcognos/bi/?perspective=home

Reporting Tools : Web Intelligence (Webl)

Virtual as well as on-site trainings ranging from 4hrs to whole-day designed to go over SAP Web Intelligence reporting tool to build, view and share reports

- Drag and drop reporting and analytics tool
- Create and develop Ad Hoc reports with Healthcare Intelligence (HI) data
- Self-service reporting tool





Visualization Tools: Tableau - SJH Implementation

Web-based, hour-long session for SJH Tableau desktop license holders and publishers covering enterprise Tableau server environment and dashboard publication standards

- Overview SJH Tableau Serve environment
- How to request Tableau License
- Tableau Site/Project Access Provisioning
- Standardized Dashboard at SJH
- Creating Dashboard from Excel file
- Defining Metadata for Dashboards
- Publishing Tableau Data Sources to SJH Server
- Publishing Tableau Dashboard to SJH Server
- Tableau Data sources at SJH
- Training resources
- http://tabapp001-vp/#/projects



Knowledge is Power!

In organizational theory, **knowledge transfer**

is the practical problem of transferring knowledge from one part of the organization to another.

Like knowledge management, knowledge transfer

seeks to organize, create, capture or distribute knowledge and ensure its availability for future users.

It is considered to be more than just a communication problem.

en.wikipedia.org/wiki/Knowledge_transfer



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