

# Unlocking Data to Analyze, Benchmark and Diagnose Absence Drivers, Culture and Impacts on Outcomes

March 13, 2018 – 1:15pm to 2:15pm











#### **Today's Presentation Team**

- Beth A. Rohlfing, The Children's Hospital of Philadelphia, Sr. Director, Total Rewards & HR Technology
- David Spizman, Children's Hospital Association, Vice President
- Kimberly Mashburn, The Hartford, National Accounts Practice Lead
- Phil Lacy, Trion Group, a Marsh & McLennan Agency, LLC, Absence Team Practice Leader
- Tom Cullen, Trion Group, a Marsh & McLennan Agency, Client Leader

# **Pre-Analysis**

## **Employer Questions Pertaining To Absence?**



Why are more than 10% of our people not at work?



How is absence impacting our expenses?



How does absence impact productivity?



How do we harness information to create knowledge?

#### Controlling The Costly Contagion of Employee Absenteeism

#### Employee absenteeism takes a toll on:

- Patient safety and outcomes (hospitals and health systems)
- Productivity
- Quality of care
- Managerial workforce control
- Absence costs and, in turn, the organizations bottom line

#### Absentee Contagion is influenced by:

- Inadequate controls, tracking tools, and data integration
- Poorly constructed or enforced plans, policies and procedures
- Abuse of polices and procedures
- Insufficient knowledge to assist with Absence Strategy

# Case Study The Children's Hospital of Philadelphia

**The Situation:** 10,000+ employee hospital struggling with cost of excessive absence, including impact on patient outcomes / safety.

#### "At anytime we have 10% of our population not at work," COO

- What is absence costing us?
- What can we do to understand this?
- How do we make improvements?

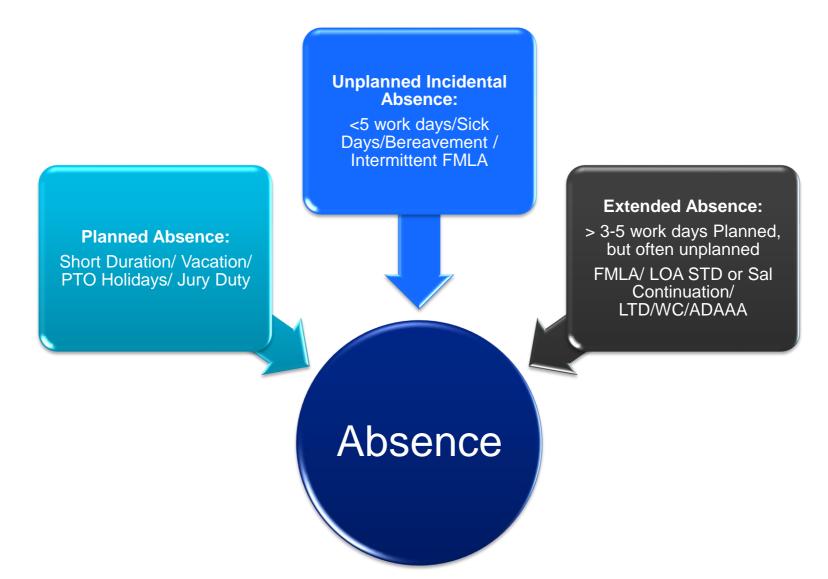
#### Longer term question:

How is absence impacting employee productivity and patient care?



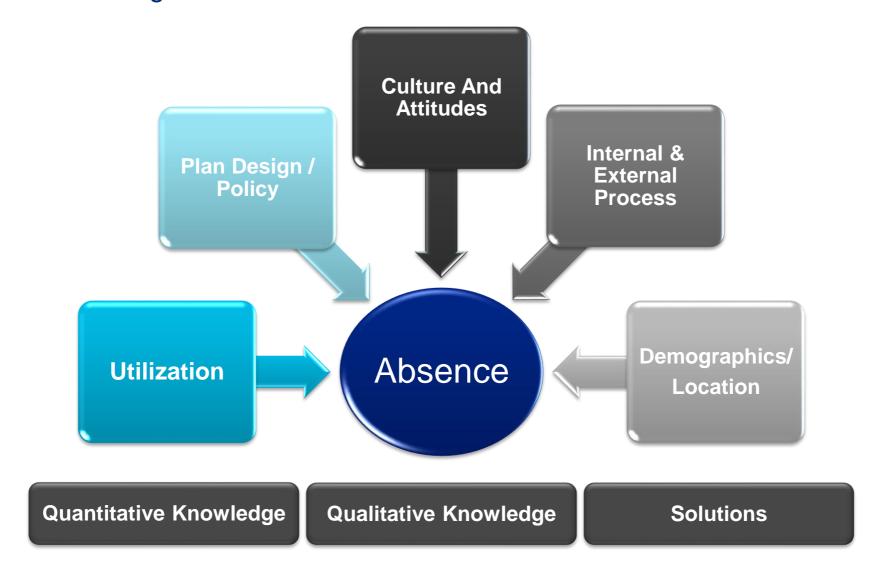
# **Absence Study**

## Defining Absence / Absenteeism



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# **Absence Program Evaluation**

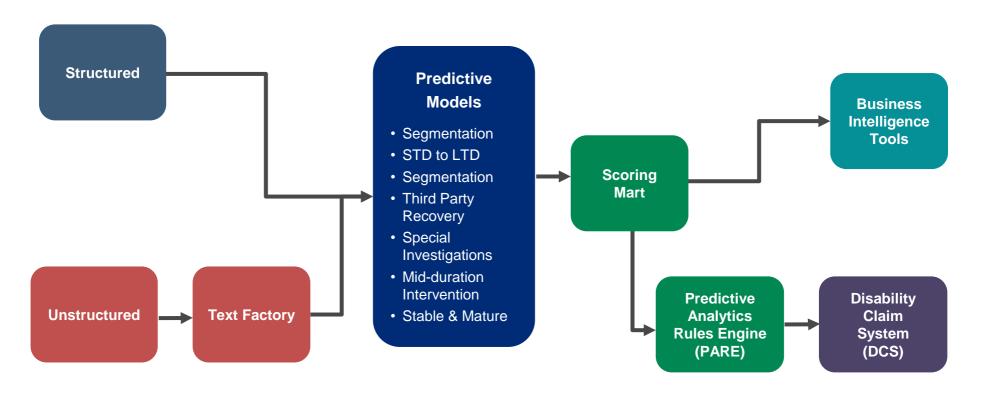


## **Cultural Observations and Key Themes**



# **Claims Data Analytics**

# Claims Data Analytics Predictive Analytics Lifecycle





# Claims Data Analytics Data Capture

#### **Physical Capabilities (20)**

- Hours Sit
- Hours Stand
- Hours Walk
- Lift
- Use of Hands
- Driving
- Height/Weight

#### **Social Security (44)**

- Compassion Allowance
- Should Apply for SS
- Represented by Attorney/Vendor
- Vendor Name
- Initial SS Decision
- Reconsideration Decision

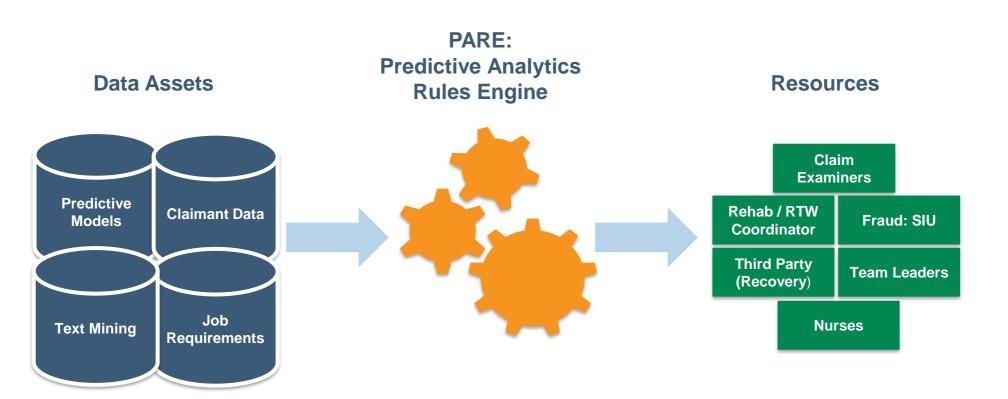
#### **Occupational Demands (20)**

- Hours Sit
- Hours Stand
- Hours Walk
- Lift
- Use of Hands
- Driving

#### Text Flags (103)

- Fear
- Passivity
- Lack of Coping Skills
- Perceived Injustice
- · High Blood Pressure
- Sleep Disorders

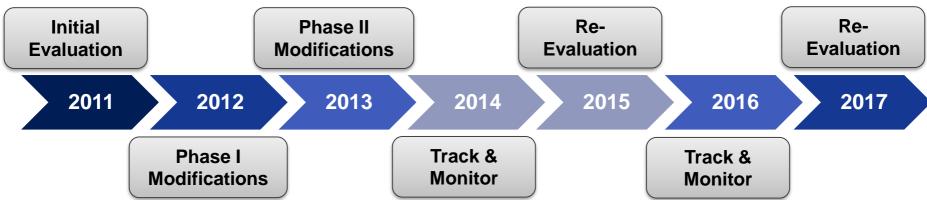
# Claims Data Analytics Actionable Intelligence





# **Key Learnings**

#### Case Study Navigating Absence is a Journey



- Our Journey.....We engaged Trion to analyze full absence and time off programs.
  - All time off policies and procedures
  - Demographics and usage of the Paid Personal Leave (PPL), Extended Disability Leave (EDL) / Extended Sick Leave (ESL-Union), Short-term disability (STD), Long-term disability (LTD), and Family Medical Leave Administration (FMLA) programs
  - Determine utilization patterns, incidence rates and other key metrics
  - Benchmarking analysis
  - Quantitative cost analysis of the current plans, and cost implications of changes
  - On-site process and procedural review and vendor process review



#### Case Study Initial 2011 baseline

#### **Utilization and Accrual Liability:**

- More than \$50M in actual cash flow paid for PPL, EDL cash out of PPL and STD benefits
  - EDL and STD was \$5.4M
- Accrual liability associated with PPL was approximately \$60 Million.

#### **Key Focus Group Themes:**

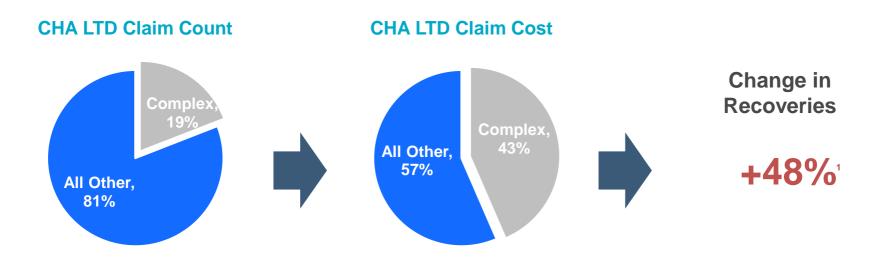
- Managers inconsistent application
- Employees teaching each other abuse techniques
- Increased FMLA around the holidays or connected to other scheduled time off
- Employees take unpaid leave to save PPL days
- Time keepers are frustrated with retroactive and manual processes
- Plan design (financial incentives) enables abuse

## Case Study Applying what we Learned

Incorporated the findings of the initial analysis into the mid-year 2012 labor negotiations to make some key policy and plan design changes that were applied enterprise wide. These changes included.

Policy	Modification
Extended Disability Leave (EDL) / Extended Sick Leave (ESL)	7/1/2012 - Eliminated the accrual of ESL for newly hired union employees 9/1/2012 - Use of ESL (union) and EDL (non-union) only permitted for continuous leave of absences (not for intermittent leaves) 1/1/2013 - ESL (union) and EDL (non-union) banks were frozen for all existing employees. 1/1/2013 - Eliminated the accrual of EDL newly hired employees
Short-term disability (STD)	Modified the short term disability plan to provide a step down approach to income replacement:  • FT: 70% wks 2-8, 60% wks 9-26  • PT: 60% wks 2-8, 50% wks 9-26
Attendance policy	Changed the administration of the attendance policy from a calendar year basis to a rolling 12-month basis.

#### **CHA LTD Segmentation**



#### **Segmentation Results**

- Patent-pending triage process segments and provides claim management plan
- 31 predictive models measure likely claim path
- Segmentation ensures the right resources are managing the right claims

- Complex claims reflect 19% of total CHA claim volume
- Complex claims reflect 43% of total CHA claim cost
- Segmentation works 48% increase in recoveries on our most difficult claims

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<sup>1</sup> Recoveries exclude death and expiry. Data based on comparison of pre-segmentation 2010-2012 Q3 to post-segmentation 2015-Nov 2017 CHA business.

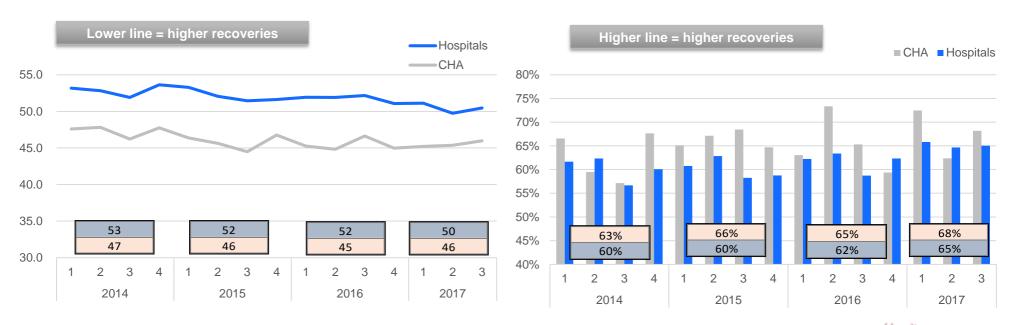
#### **Short Term Disability**

#### **Average Duration**

 Durations have trended down due to strong claim management, with CHA's results has out performed their peers

#### **Recovery from Midpoint**

 The likelihood the claimant recovers prior to LTD for claims with LTD Potential that have reached their midpoint, CHA's results have out performed their peers

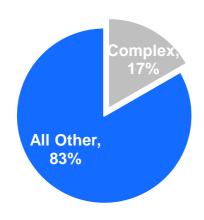


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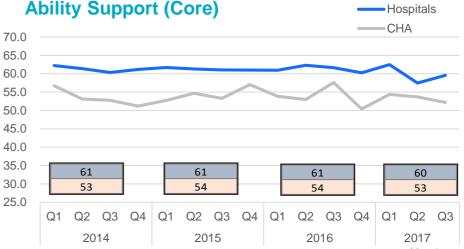
## STD Durations by Claim Segment

#### **STD Claim Count**





#### **Ability Express (Probable outcome)** Hospitals CHA 70.0 65.0 42 40 40 60.0 38 36 35 36 55.0 50.0 45.0 40.0 35.0 30.0 25.0 Q2 Q3 Q1 Q2 Q3 Q1 Q2 Q3 Q1 Q2 2014 2015 2016 2017

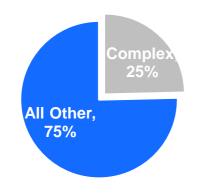


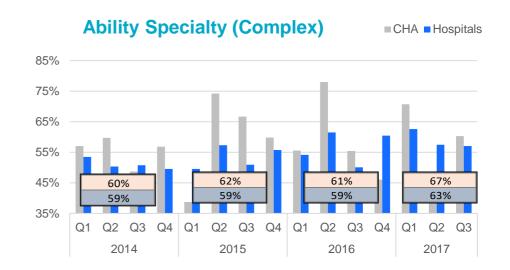
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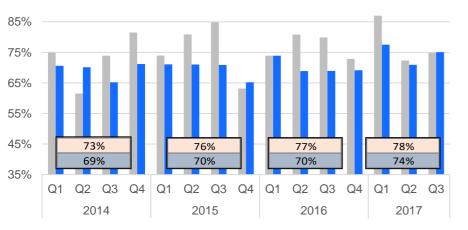
## STD Recovery from Midpoint by Claim Segment



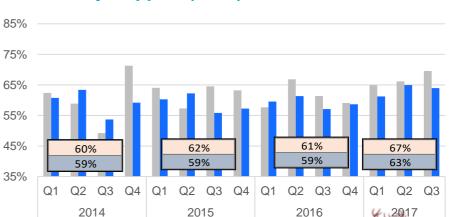




#### Ability Express (Probable outcome) ■ CHA ■ Hospitals



#### **Ability Support (Core)**



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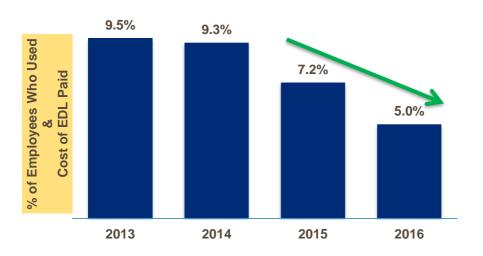
■ CHA ■ Hospitals

# **Change Impact**

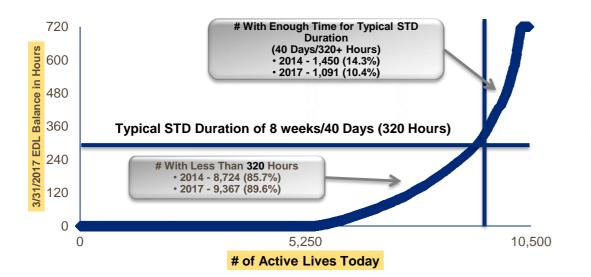
#### Case Study

#### Have we seen improvements as a result of these changes?

Changes to Extended Disability Leave (EDL) and Extended Sick Leave (ESL) policy.



- Incidence rate dropped to 9.5% in 2013 & 5.0% in 2016
- EDL/ESL usage was 8% lower in 2013 vs. 2011, utilization cost reduced by \$1.1M between 2013-16
- Effective 1/1/2013, EDL accruals stopped & banks frozen
- Effective 9/1/2012, EDL could no longer be used for intermittent leave



EDL Balance Summary											
Date	Estimated Cost of Balance										
12/31/2013	\$56,179,675										
2/28/2014	\$55,680,288										
3/31/2017	\$43,113,804										
	Reduction of \$13.1M										

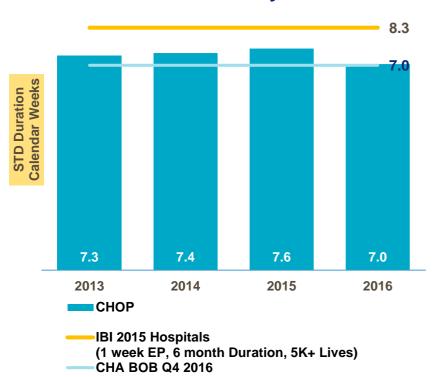


# Case Study

#### Have we seen improvements as a result of these changes?

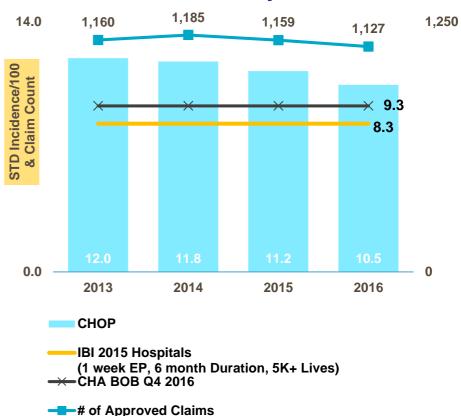
#### Changes to Short-Term Disability plan design (STD)

#### **Short Term Disability Duration**



With the elimination of accruals of EDL and ESL, and the changes to the STD plan (step down in weeks 9-26) STD average duration held steady and below benchmark since 2013.

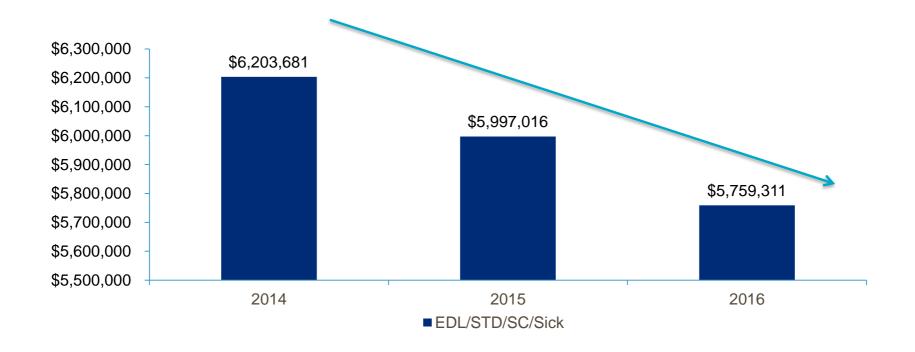
#### **Short Term Disability Incidence**



We have also observed a **steady decrease in** STD incidence from 2013 (from 12.0 to 10.5).

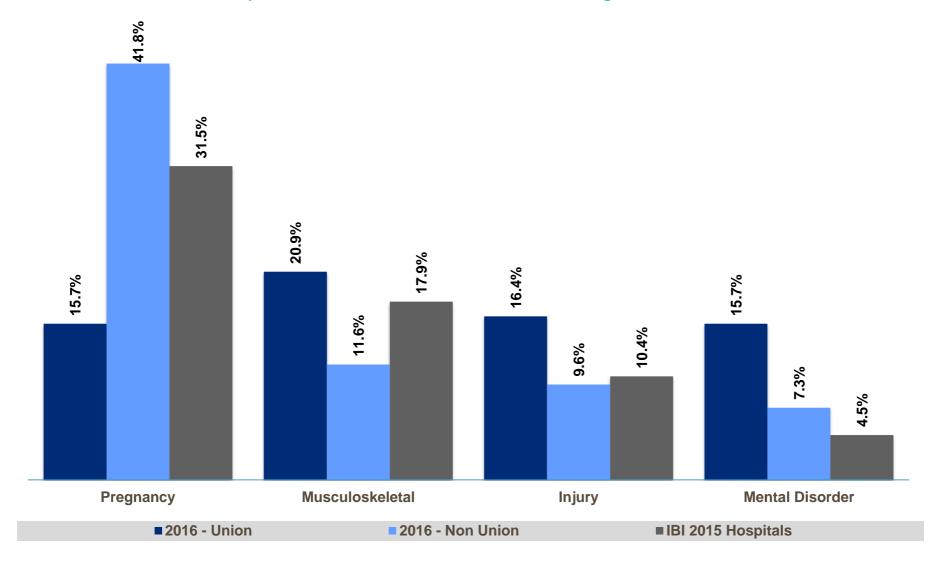


## Case Study EDL, STD, Salary Continuation and Sick Time - Total Utilization Cost by Year



**Utilization Cost Decreased \$444,370**, despite increased employee population increase (approx +3%) and average salary (approx +3.9%).

#### Case Study Short Term Disability - Union vs. Non-Union Diagnosis



# Case Study FMLA continued challenges

- Utilization significantly different between Union and Non Union.
- Union represents 10% of workforce, but >18% of total leaves
- Union intermittent leaves represent 60% of leaves vs. 25% for non-union population
- % of employees taking unpaid leave time is significantly higher for the union population
- Overall, FMLA incidence rates have trended down between 2014-16, but intermittent up in 2016

Total Population											
FN	MLA Inciden	ice	FMLA A	verage Lost	Work Days	FMLA % Intermittent					
2014	2015	2016	2014	2015	2016	2014	2015	2016			
18.7	18.0	16.6	24.2	24.0	21.7	30.3%	28.5%	36.4%			

	Non-Union Population	Union Population
% of CHOP Population	90%	10%
% of Total Leaves in 2016	81%	>18%
Incidence by Unique Leave	15%	41%
% Intermittent Leaves	25%	60%
Leave Duration	Shorter duration	Longer duration
Use of Unpaid time  Who used unpaid time  Days Used	3.9% 10.2	22.1% 12.3

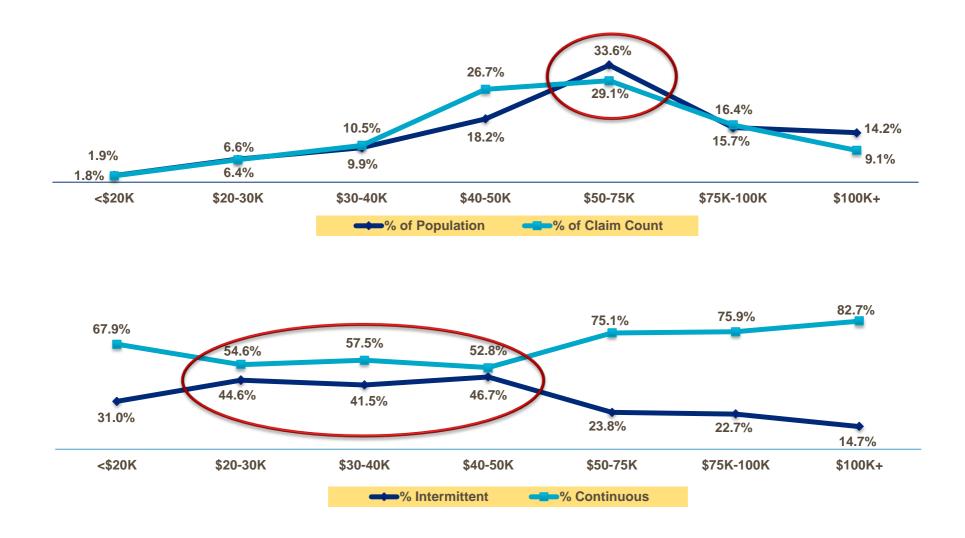
## Case Study Snapshot of Full Department Analysis – STD & FMLA

#### **Departments with the Highest Utilization**

	STD Incidence			STD Duration (weeks)			FMLA Incidence			Avera	FMLA age Los Days	t Work	FMLA % Intermittent		
Department	2014	2014 2015 2016		2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016
ENVIRONMENTAL SVCS	13.5	13.2	10.0	7.6	9.7	8.4	42.5	39.9	43.4	19.0	26.7	19.0	57.8%	53.8%	63.9%
NURSING - PERIOP & SURGICAL	17.1	11.7	12.3	7.6	7.7	8.4	32.6	21.0	28.8	21.5	21.3	21.5	48.0%	39.3%	45.6%
PARC	9.8	9.9	8.7	7.9	7.5	5.9	22.7	22.9	23.1	16.7	21.6	16.7	53.4%	47.3%	60.4%
FOOD SERVICES	10.9	12.1	7.9	8.4	7.7	8.2	31.7	37.2	34.5	15.1	22.7	15.1	42.5%	54.2%	52.5%
Total Population	10.6	9.7	8.8	7.4	7.6	7.0	18.7	18.0	16.6	24.2	24.0	21.7	30.3%	28.5%	36.4%
FMLA 3 year average							18.5			23.3			31.7%		
IBI Benchmark							23.0				24.6		30.0%		

## Case Study

## FMLA – Usage by Income Level (2014-2016 Average)

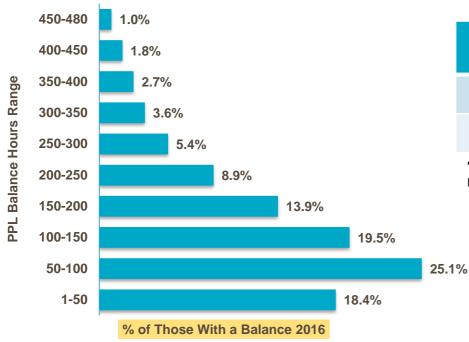


#### Case Study PPL – Balance

#### Opportunity for additional Program Cost Control:

	PPL Balance Summary													
Date	# With a Balance	% With a Balance	Average Balance Hours/EE	Est. Average Balance Days/EE	Estimated Cost of Balance									
12/31/2013	9,400	86.2%	120.2	15.0	\$50,177,354									
12/31/2016	10,504	89.7%	125.7	15.7	\$57,539,846									

<sup>•</sup> Average balance per employee is inclusive of those with zero balances.



PTO Max Bank Options	Change Maximum Bank to a Flat 320 Hours
Estimated \$ Savings	-\$2,435,434
Estimated % Savings	-4.2%

· Potential for savings exists if the maximum banks are reduced from the current plan (2x the annual accrual).

#### Case Study **Next Steps**

#### So what does all of this data tell us?

Policy and plan design changes implemented are having a positive impact on utilization and cost

**FMLA** utilization continues to present challenges: staffing, managing time off. employee morale

Union employees use more FMLA: Creates significant staffing challenges Several large departments are driving the high intermittent **FMLA** utilization rates

#### What next?

# Training

- Targeted intervention training
- General training and education for all managers
- Increase frequency of refresher training

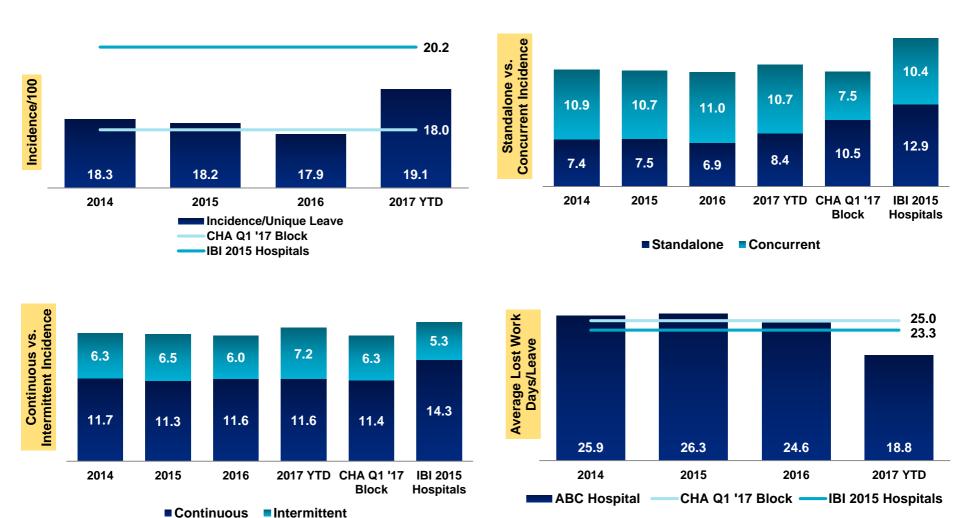
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- Deeper analysis needed around the drivers of mental health claims
  - Monitoring "suspect" claimants
    - Analysis of **Employee** Engagement, Turnover, Other Internal Metrics

- Consider policy change to prohibit unscheduled PPL utilization
- Consider requiring PPL time be use prior to unpaid leave
- Consider change PPL max accrual

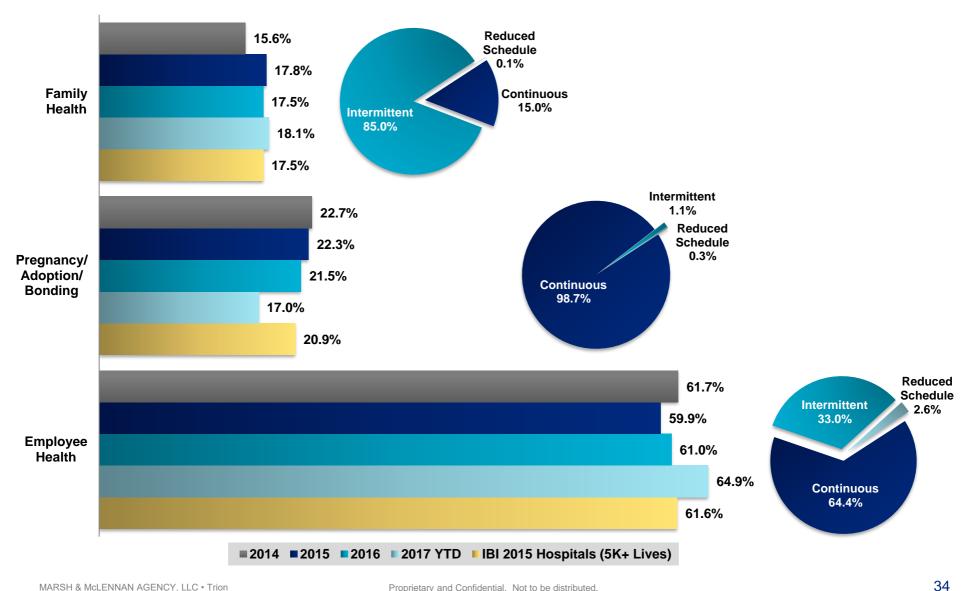
# **Executive Team Engagement**

# FMLA Analysis Usage



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## **FMLA** Analysis Usage by Claim Type



#### Claim Observations Short Term Disability

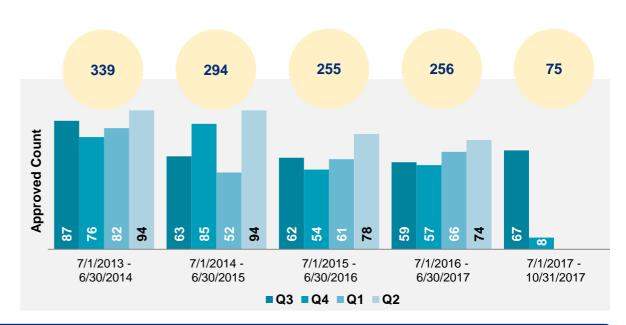
**1,219** approved claims July '13 - Oct. '17

281 average STD claims/year

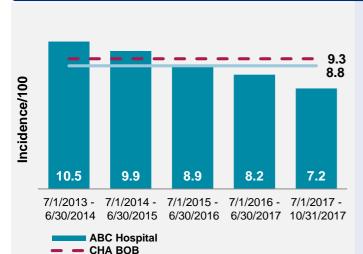
**9.2** overall incidence rate/100

\*9.8 overall average duration weeks

\*Represents claims from 7/1/2013-6/30/2017

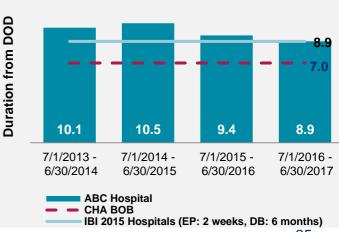


#### **BENCHMARKS**



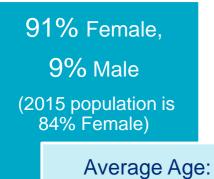
IBI 2015 Hospitals (EP: 2 weeks, DB: 6 months)

- STD plan is voluntary with 57% participation (based on 2015 census).
- Incidence is above the benchmark for 2 out of the 5 periods but is showing the same downward trend as the loss ratios.
- Duration is at or above the benchmark for all periods.



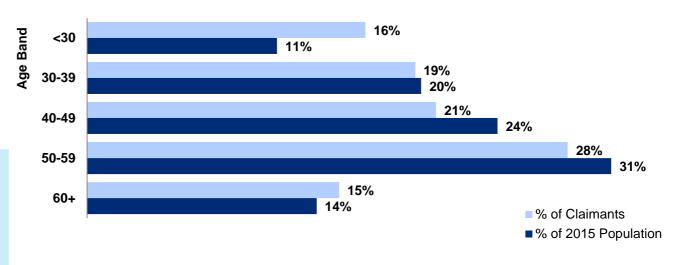
## Claim Observations Short Term Disability

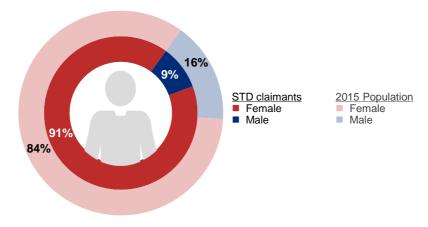
#### **CLAIMANT DEMOGRAPHICS**



45.5

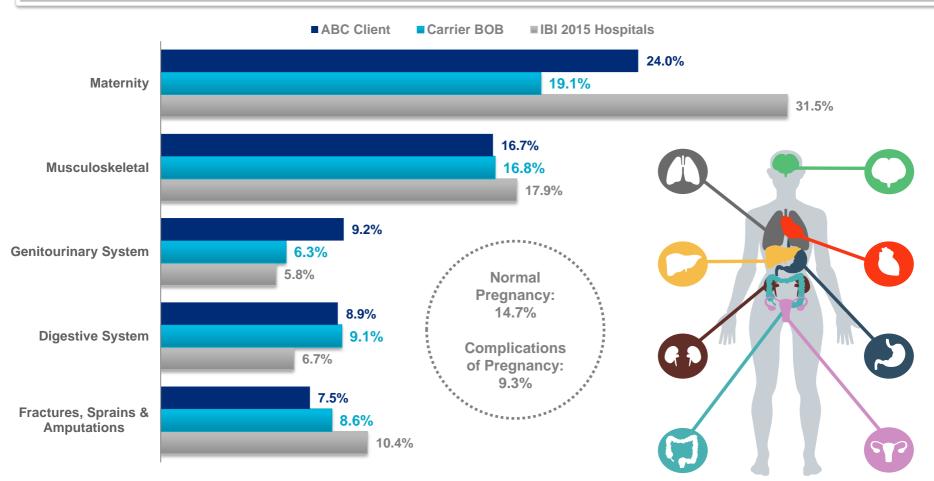
(45.0 for Females, 51.0 for Males)





#### Claim Observations Short Term Disability





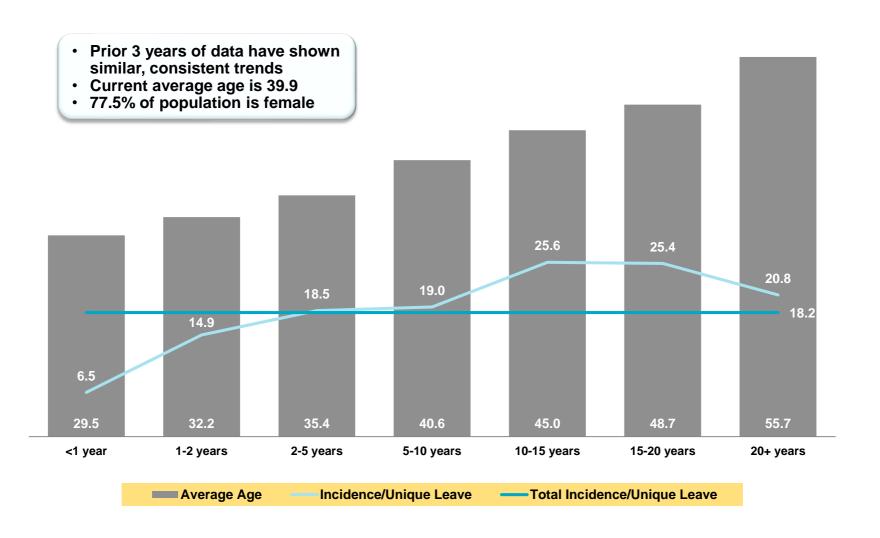
• IBI benchmarking data is based on closed claims only. The "Fractures, Sprains & Amputations" diagnosis is categorized as "Injury & Poisoning" under the IBI benchmark.

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## FMLA Manager Analysis Snapshot: 20 departments FMLA Utilization by Manager

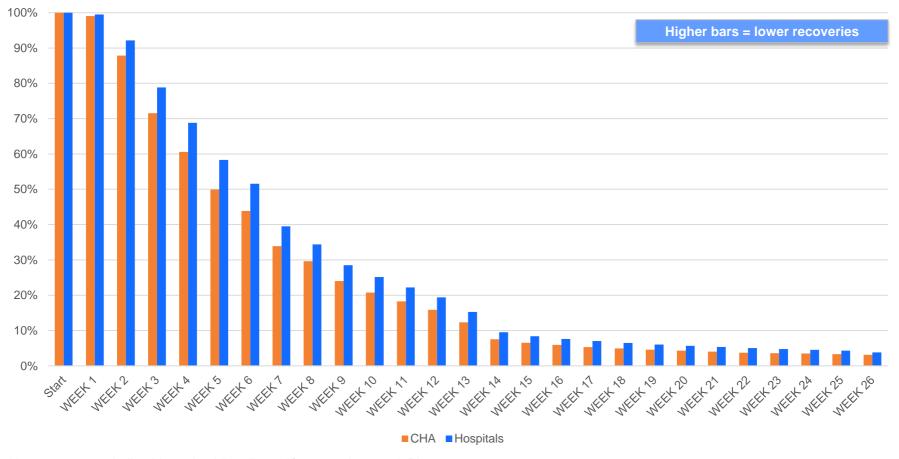
Manager Analy	sis Summary	Inci	idence Rat	e/Occurre	nce	Lost Wor	k Days/Oc	currence (	Duration)	% Intermittent					
Manager Name	# Lives Today	2014	2015	2016	2017	2014	2015	2016	2017	2014	2015	2016	2017		
Α	209	0.0%	1.7%	0.6%	3.8%	0.0	18.5	0.0	22.5	0.0%	0.0%	0.0%	0.0%		
В	140	19.0%	21.1%	21.3%	20.0%	26.8	24.5	30.7	15.2	14.3%	15.6%	9.1%	28.6%		
С	86	33.3%	29.8%	21.6%	14.0%	15.6	13.4	16.8	17.6	26.1%	32.0%	38.1%	33.3%		
D	79	4.1%	10.0%	11.7%	0.0%	32.8	36.1	46.8	0.0	33.3%	12.5%	22.2%	0.0%		
E	77	33.3%	29.1%	32.9%	31.2%	17.2	26.3	21.7	10.6	51.7%	44.0%	46.4%	50.0%		
F	75	23.5%	17.5%	16.5%	0.0%	32.3	29.5	20.0	0.0	25.0%	36.4%	23.1%	0.0%		
G	75	10.7%	11.3%	8.2%	0.0%	33.4	32.7	38.3	0.0	0.0%	11.1%	0.0%	0.0%		
н	71	19.6%	28.1%	15.9%	28.2%	27.6	9.3	11.4	4.5	20.0%	25.0%	0.0%	20.0%		
1	67	2.5%	4.3%	6.2%	0.0%	25.5	43.3	11.1	0.0	0.0%	0.0%	25.0%	0.0%		
J	63	20.4%	19.7%	19.4%	19.0%	16.9	18.6	24.4	6.9	27.3%	53.8%	57.1%	100.0%		
K	62	34.8%	22.4%	35.8%	38.7%	26.1	15.1	16.8	13.7	34.8%	60.0%	41.7%	66.7%		
L	58	42.3%	47.4%	33.3%	27.6%	22.9	17.4	23.0	17.5	22.7%	33.3%	33.3%	50.0%		
М	56	21.2%	23.3%	31.0%	21.4%	25.8	12.1	17.9	2.0	14.3%	10.0%	33.3%	0.0%		
N	54	35.3%	31.0%	27.3%	29.6%	26.6	23.3	20.7	18.8	33.3%	44.4%	26.7%	50.0%		
О	53	13.8%	25.4%	38.2%	52.8%	29.2	18.0	29.9	12.5	12.5%	20.0%	14.3%	42.9%		
Р	52	25.9%	14.3%	16.3%	15.4%	30.7	31.2	15.1	5.3	14.3%	0.0%	14.3%	50.0%		
Q	51	21.3%	17.2%	25.9%	15.7%	27.5	13.8	26.6	19.3	23.1%	50.0%	14.3%	50.0%		
R	51	41.8%	22.2%	36.4%	31.4%	20.1	18.5	17.5	10.3	56.5%	50.0%	45.0%	75.0%		
S	50	19.6%	19.2%	10.5%	0.0%	22.2	21.1	14.4	0.0	44.4%	60.0%	83.3%	0.0%		
Т	50	22.4%	38.5%	24.1%	56.0%	23.5	26.0	24.2	16.6	46.2%	32.0%	28.6%	42.9%		
		18.3%	18.2%	17.9%	19.1%	25.9	26.3	24.6	18.8	34.5%	35.9%	33.5%	37.7%		

## FMLA Analysis Usage by Length of Service (2017)



## STD Claim Survival: CHA versus Hospital Block

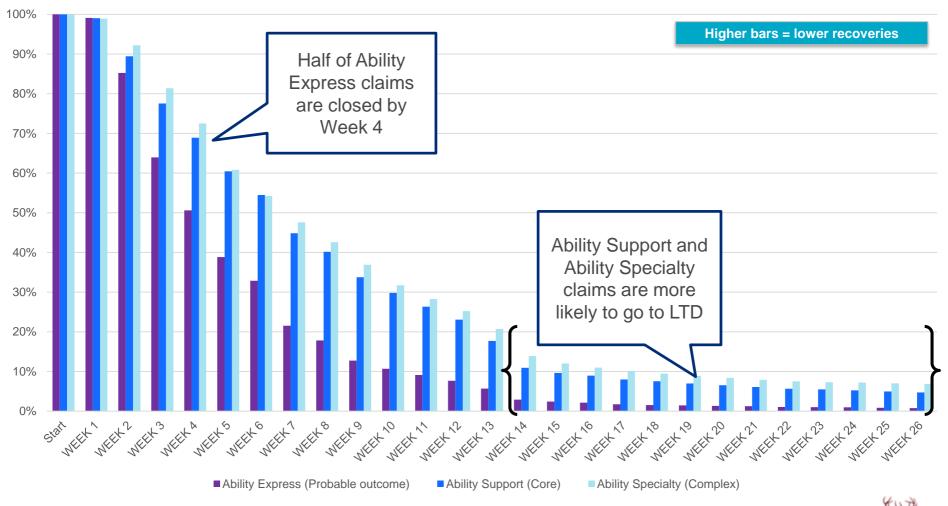
CHA's results show higher recoveries across all durations.



Nonstatutory, excluding Maternity. Mix adjusted for 13 and 26 week Plans.



# CHA STD Claim Survival by Claim Segmentation



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# **Appendix**

#### Case Study **Department Analysis**

Environmental Services, Nursing-Periop & Surgical, Parc, and Food Services departments lead usage of FMLA (& short-term disability)

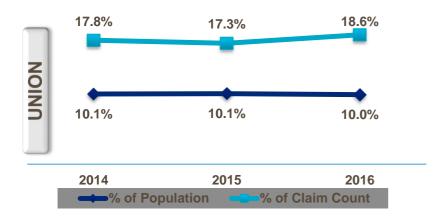
Department	Commentary
Environmental Svcs (Housekeeping)	<ul> <li>Higher % of male employees and lower income levels, aging population</li> <li>91% union/dual income workers, poor planners</li> <li>Much higher incidence of Employee Health FMLA claims</li> <li>Inability to flex time and to secure days off</li> <li>Repetitive physical work which causes fatigue</li> <li>Entitlement mentality "earn it and spend it"</li> </ul>
Nursing - Periop & Surgical	<ul> <li>Primarily female, slightly older and longer tenure, aging workforce, more medical conditions exist in this department</li> <li>88% non-union</li> </ul>
Parc	<ul> <li>Primarily female, slightly older, all non-union</li> <li>Higher incidence of Employee Health FMLA claims</li> <li>Aging workforce, stressful position due to family facing scheduling</li> </ul>
Food Services	<ul> <li>Higher % of male employees, younger age and lower income levels</li> <li>95% Union, Dual Income workers, poor planners</li> <li>Higher incidence of Employee Health FMLA claims</li> <li>Inability to flex time and to secure days off</li> </ul>

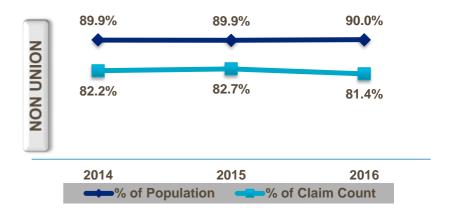
## Case Study Department Analysis – STD & FMLA

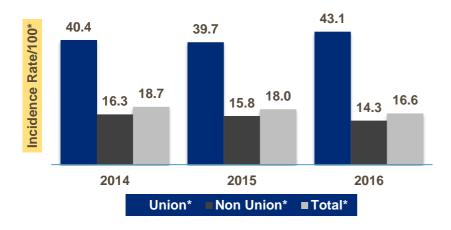
	STD Incidence			STD Duration (weeks)			FMLA Incidence			Averag	FMLA e Lost W	ork Days	FMLA % Intermittent			
Department	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	2014	2015	2016	
RESEARCH	4.6	5.1	3.7	6.9	7.3	6.7	6.9	8.0	5.5	27.6	28.4	27.6	9.3%	4.1%	9.0%	
CARE NETWORK	11.1	10.0	8.4	7.2	8.6	7.2	18.5	17.1	12.4	23.7	25.0	23.7	17.8%	24.7%	25.2%	
Department of Pediatrics	8.6	7.4	9.5	6.9	7.4	6.9	13.1	13.0	15.2	23.4	24.4	23.4	26.5%	23.0%	31.7%	
ENVIRONMENTAL SVCS	13.5	13.2	10.0	7.6	9.7	8.4	42.5	39.9	43.4	19.0	26.7	19.0	57.8%	53.8%	63.9%	
NURSING - MEDICAL & REHAB	13.9	16.4	10.8	7.6	7.2	6.4	27.4	29.9	23.6	18.9	22.6	18.9	31.9%	29.4%	45.8%	
NURSING - PERIOP & SURGICAL SV	17.1	11.7	12.3	7.6	7.7	8.4	32.6	21.0	28.8	21.5	21.3	21.5	48.0%	39.3%	45.6%	
NURSING - NEONATAL NURSING	10.4	13.7	14.0	8.1	7.3	7.5	20.8	27.3	25.2	21.4	23.2	21.4	27.2%	23.7%	33.3%	
INFORMATION SERVICES	6.1	5.3	5.3	7.6	6.4	5.2	10.3	7.0	5.5	20.3	28.5	20.3	15.4%	17.1%	10.7%	
NURSING - CRITICAL CARE	16.0	10.8	10.1	6.5	7.6	6.0	24.8	19.6	21.7	19.5	21.4	19.5	28.9%	26.6%	33.7%	
PARC	9.8	9.9	8.7	7.9	7.5	5.9	22.7	22.9	23.1	16.7	21.6	16.7	53.4%	47.3%	60.4%	
NURSING - CARDIAC CENTER	16.3	10.8	11.6	7.5	7.1	6.8	29.7	23.2	21.6	23.5	19.6	23.5	20.0%	27.4%	21.3%	
LABS	11.1	11.7	7.8	8.4	9.1	5.1	16.4	17.8	13.7	14.1	26.8	14.1	32.7%	43.6%	68.2%	
MEDICAL AFFAIRS	5.2	3.4	3.7	6.4	4.4	6.7	4.3	1.9	4.1	25.6	30.9	25.6	10.0%	0.0%	14.3%	
REHAB	9.4	9.7	7.3	6.5	6.9	8.1	16.7	20.3	13.0	28.2	26.5	28.2	13.9%	6.4%	3.1%	
NURSING - RESPIRATORY & DIAG	12.6	10.7	11.9	7.7	7.5	8.5	18.8	17.5	20.7	24.7	25.0	24.7	15.6%	15.9%	36.5%	
NURSING - EMERGENCY	10.3	12.2	14.3	6.6	6.8	6.3	21.1	24.1	20.9	21.9	23.0	21.9	33.3%	17.3%	22.0%	
NURSING - ONCOLOGY NURSING	14.4	13.4	9.5	7.4	6.5	5.7	24.0	20.8	18.9	20.7	22.3	20.7	28.6%	26.8%	36.4%	
SCC AND CLINICS	12.1	8.3	11.7	7.6	6.1	6.3	23.0	17.8	16.4	23.1	24.2	23.1	31.9%	28.2%	29.7%	
FOOD SERVICES	10.9	12.1	7.9	8.4	7.7	8.2	31.7	37.2	34.5	15.1	22.7	15.1	42.5%	54.2%	52.5%	
PHARMACY	5.7	8.2	6.7	6.9	7.2	7.9	16.5	16.2	16.1	23.2	23.8	23.2	42.9%	32.3%	38.7%	
RADIOLOGY	16.3	11.0	9.3	8.5	8.6	8.3	25.7	25.5	21.0	16.1	27.7	16.1	28.2%	33.3%	58.8%	
SECURITY/PARKING/TRANSPORT	11.9	8.7	11.8	7.6	6.7	8.2	21.2	16.7	22.1	22.4	26.8	22.4	40.0%	47.6%	33.3%	
Anesthesiology and Critical Care Medicine	12.6	8.1	9.0	9.0	6.4	5.8	15.5	15.7	14.0	25.0	22.9	25.0	11.8%	14.3%	25.0%	
NURSING - IMAGING	12.5	17.2	12.1	6.5	6.9	8.3	28.3	29.6	28.7	21.3	20.3	21.3	40.0%	25.0%	35.5%	
FACILITIES	11.8	7.6	8.1	5.6	9.9	7.8	14.3	11.4	8.9	38.1	30.6	38.1	11.8%	46.7%	8.3%	
BEHAVIORAL HEALTH	7.3	13.0	6.8	11.6	7.8	9.1	8.7	22.9	9.5	13.0	26.8	13.0	0.0%	20.0%	50.0%	
Total Population	10.6	9.7	8.8	7.4	7.6	7.0	18.7	18.0	16.6	24.2	24.0	21.7	30.3%	28.5%	36.4%	

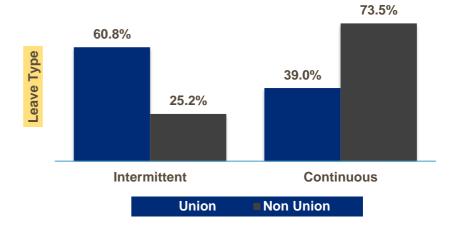
- Analysis based on the 26 departments with over 100 active/eligible lives today. They represent approximately 86% of the total population.
- · Red indicates high usage, green indicates low.

#### Case Study FMLA – Usage by Union Status













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