# **Promised TAT as a Key Performance Indicator:** All the Secrets and Successes of Making it Work

Stephanie Moravec, MPH October 1, 2013



#### Why are we here...

**Purpose**: To share insights learned by BloodCenter of Wisconsin's Diagnostic Laboratories on their humble journey, from selecting a meaningful metric to managing the data and translating this data into actionable opportunities for improvement.

#### • Objectives

- Demonstrate how published turn-around-time (PTAT) is a reflection of the internal and external customer voice.
- Share best practices of PTAT data management and customizing the metric to fit you and your customers' needs.
- Explore the process of translating a static metric to a dynamic action plan/continuous improvement opportunity



## Why are we here...

#### Take Aways

- Insights into choosing a goal and metric based on the voice of the customer.
- Methods to utilize standard work in managing published turnaround-time (PTAT) metrics.
- The importance of recognizing why tests miss their PTAT, how to track this data, and ways to make data actionable.
- A mechanism to identify and ask for help in addressing road blocks to achieving PTAT goals.
- Real lessons learned regarding the challenges and successes around the implementation of percent made PTAT as a Key Performance Indicator (KPI).



## **BloodCenter of Wisconsin**

#### Mission:

BloodCenter of Wisconsin advances patient care by delivering life-saving solutions grounded in unparalleled medical and scientific expertise.

#### Vision:

Together we will become the blood center without equal, discovering new ways to save more lives.

#### Values:

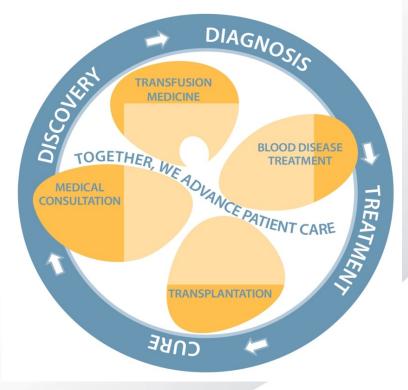
**Excellence** – To strive to be the best

- **Integrity** To bring honesty and responsibility to all we do
- Learning Dedication to acquire and share new knowledge and skills
- **Respect** To affirm each person's dignity and worth

**Innovation** – To create new knowledge and solutions

Service – To anticipate and exceed customer expectations

#### Serving patients and the community through our **Continuum of Care**

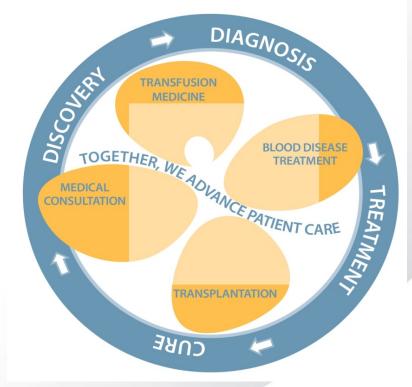




## **Multifaceted Care**

- Blood Services
- Medical Science
   Institute
- Blood Research Institute
- Organ and Tissue Donation
- Diagnostic Laboratories

#### Serving patients and the community through our **Continuum of Care**





## **Diagnostic Laboratories**

- Use innovative tests and unparalleled expertise to help physicians deliver better care to the patient.
- Comprised of multiple areas of expertise
  - Hematology Lab (HEM)
  - Histocompatibility Lab (HLA)
  - Immunohematology Reference Lab (IRL)
  - Molecular Diagnostics Lab (MDL)
  - Molecular Oncology Lab (ONC)
  - Platelet Immunohematology Lab (PNIL)
  - Transfusion Services (located in Children's Hospital of Wisconsin)
  - Product Development Lab
  - Applied Research Lab







One day Alice came to a fork in the road and saw a Cheshire Cat in a tree.

- "Which road do I take?" she asked.
- "Where do you want to go?" was his response.
- "I don't know," Alice answered.
- "Then," said the cat, "it doesn't matter."

Excerpt from The Adventures of Alice in Wonderland

**BLOODCEN** 

If you don't know where you are going, any road will get you there. ~Lewis Carroll

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# Prologue...

Chapter 1.....2008 Chapter 2.....2009 Chapter 3.....2010 Chapter 4.....2011 Chapter 5.....2012 Chapter 6.....2013 Epilogue...

Establish the Voice of the Customer Take Action Monitor Progress toward your Goal



#### **Find your foundation...**

Everything we do starts and ends with **patient care**:



## **Establish the Voice of the Customer**

- Define your customer
- Choose a tool to capture the voice of your customer. The tool should:
  - Capture the wants and needs of your customer
  - Assess the gap between your services and your customers' requirements
  - Be easily accessible to the customer



http://www.b2bmarketing.net/



## **Taking Action on What You've Heard and Learned**

- Use the results of your assessment tool to create a goal
- Your Goal should:
  - Bridge the gap between the service you're currently providing and the needs of your customer
  - Be supported from the executive to the staff level
  - Be S.M.A.R.T.







- 25-50 P					
	Your goal should be	Or in other words			
S	Specific	Goal should be clear and precise, not fuzzy and vague			
Μ	Measurable	Goal should be tangible enough that it can be <b>measured <u>simply</u> and with appropriate frequency <u>without significant effort</u></b>			
А	Attainable	Set realistic goals. They shouldn't be so big that they seem impossible			
R	Relevant	Set goals that challenge you but fit within the "bigger picture" of your Lab <u>and</u> DL <u>and</u> BCW			
Т	Timely	Make your goals fit into a manageable time frame.			
A	Approach goals with a "From to by" mentality.				
http://	http://hrg.stanford.edu/documents/SMARTGOALSTemplate2012.doc				

http://hrg.stanford.edu/documents/SMARTGOALSTemplate2012.doc

#### **Monitor your progress toward your goal**

- Select a metric
  - Easy to manage
  - Quick to retrieve
- Display the metric
  - Reviewed frequently
  - Owned on the bench level
- Establish process to support progress toward the goal
  - Celebrate successes
  - Celebrate and learn from failures



http://www.nrepp.samhsa.gov/Courses/ProgramEvaluation/NREPP\_0406\_0070.html



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## Voice of the Customer TAT Metric



## **Diagnostic Labs' Customer Feedback (VOC)**

- <u>VOC</u>: 14% of customers said their TAT expectations were not met; Quick TAT is critical because it is needed to deliver timely and wellinformed care to patients.
- Established Baseline: In Q4 of 2008, the Diagnostic Labs:
  - Met 83.4% of their published TAT
  - Had an overall average TAT of 4.2 days
- <u>Identified Need</u>: Focus on and improve on TAT
- <u>Resulting Goal</u>: Improve DL average TAT for results by 25%, from 4.20 days to 3.15 days by 12/31/2009.
- <u>Metric</u>: Average TAT in days



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## Capturing, Maintaining, and Displaying the Data



## **January 2009 – Defining the Metric**

- Focus on DL impact
- Start: Sample <u>receipt</u> onsite
  - Paper requisition: Time of order entry
  - Interface: Time of sample receipt
- End: Results made available to client





## **January 2009 – Capturing the Data**

- LIS System (Cerner) Report
  - Testing Lab
  - Test Name
  - Client
  - Patient Name and/or Accession Number
  - Contributor System (interface, manual, etc)
  - Order Date
  - Receipt Date
  - Completed Date

	ORGANIZATION_ID	PERSON_ID	NAME_FULL_FORMATTED	ENCNTR_ID	ENCNTR_TYPE	BC_ACCESSION	CONTRIBUTOR_SYSTEM
1	1163.00	630980.00	QUAL, JMB	2799643.00	VOID	BC-13-00165	ROE
2	1163.00	665684.00	Qual, JMB6	2799724.00	VOID	BC-13-50165	ROE
3	1163.00	630980.00	QUAL, JMB	2799643.00	VOID	BC-13-70707	ROE
4	1163.00	630980.00	OUAL. JMB	2799643.00	VOID	BC-13-57713	PowerChart
							BLOODCENT

## **April 2009 – Managing the Data**

"Pushing the button"

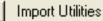


#### Utilities Switchboard



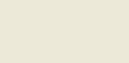
## TAT Analysis

- Order Items Excluded from TAT Report
- Organizations Excluded from TAT Report



**Database Limitations** 







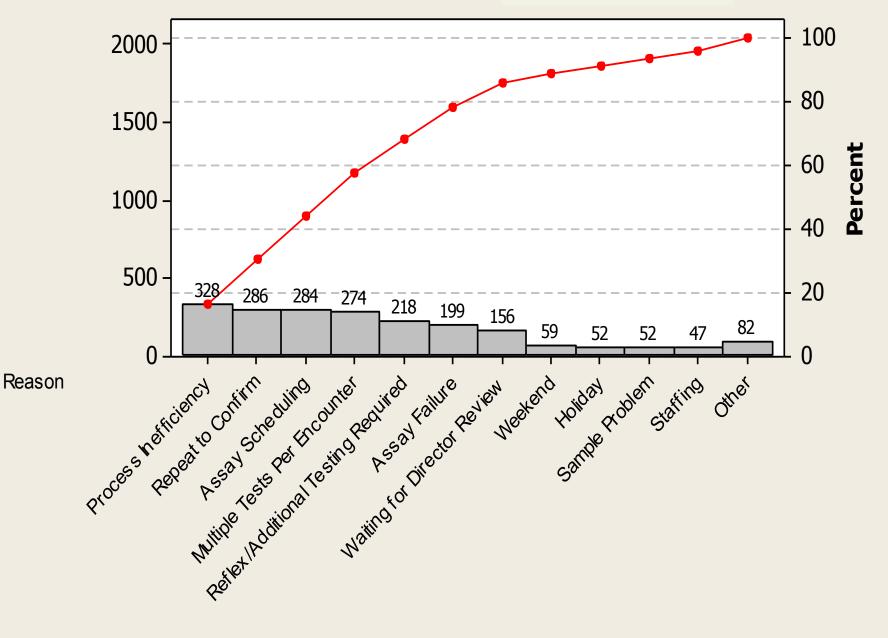
## June 2009 - Reason Codes

- Lab staff began to enter pre-determined reason codes *for each test that missed* into the DL TAT Access Database
- Pareto the reason codes overall or by lab

Reason Code	Reason
1	Assay Failure
2	Equipment/Instrument Failure
3	DNA Isolation Failure
4	Technologist Error
5	Order Entry Error
6	Supply/Supplier Problem
7	Process Inefficiency
8	Staffing
9	Repeat to Confirm
10	Waiting on Customer for Missing Info
11	Reflex/Additional Testing Required
12	Missed Run
13	Weekend
14	QLS Override
15	Waiting for Director Review
16	LabTest
17	Assay Scheduling
18	Holiday
19	Sample Problem
20	Minimum Batch Size Not Met
21	TAT Formula Error
22	TAT Formula Error - ARUP (interface)
23	Multiple Tests Per Encounter



#### **Pareto Chart of Reason Codes**



## **2009 - Displaying the Metric**

- Monthly summary
- Quarterly summary

Overall Lab	N=	8168	
Av.TAT	% Made	% Exceed	
3.1	96.2	3.8	
Average Exceed TAT= 9.8 days			

#### YTD 2009 YTD Published Week 2008 2008 Ending TAT TAT Volume Histo Goal Volume TAT 7-Mar 4.1 3.8 5.1 150 874 5-7 Days HLA B Locus Sequencing HLA ABC Low Res Typing 7-Mar 3.8 2.9 3.9 151 1059 5-7 Days 3.9 5.2 122 HLA DRB DNA Sequencing 7-Mar 3.9 843 5-7 Days

2.9

2.3

2.2

1.7

7-Mar

7-Mar

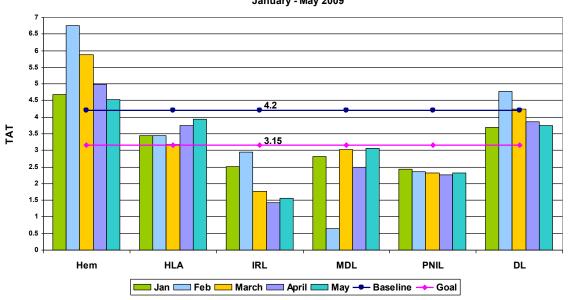
HLA Ab Detection

HLA AB Low Res Typing

2.0

2.9

Diagnostic Labs Average TAT by Lab January - May 2009



			% PTAT
	Exceed TAT	2031	
HEM	Made TAT	9905	83%
	Total	11936	
	Exceed TAT	606	
HLA	Made TAT	6955	92%
	Total	7561	
	Exceed TAT	608	
IRL	Made TAT	1350	69%
	Total	1958	
	Exceed TAT	771	
MDL	Made TAT	2994	80%
	Total	3765	
	Exceed TAT	1378	
PNIL	Made TAT	5659	80%
	Total	7037	
	Exceed TAT	5394	
DL Total	Made TAT	26863	83%
	Grand Total	32257	

512

25

2233

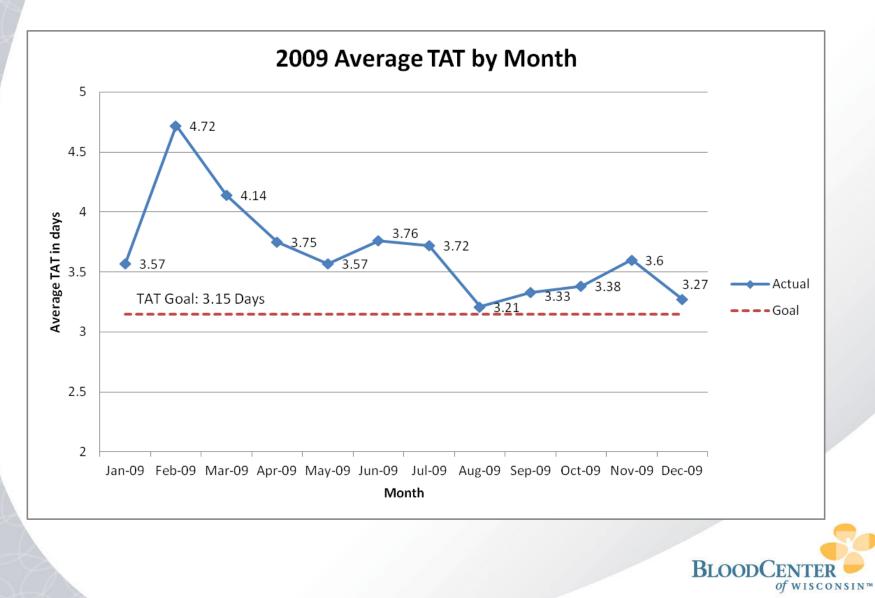
426

3 Days

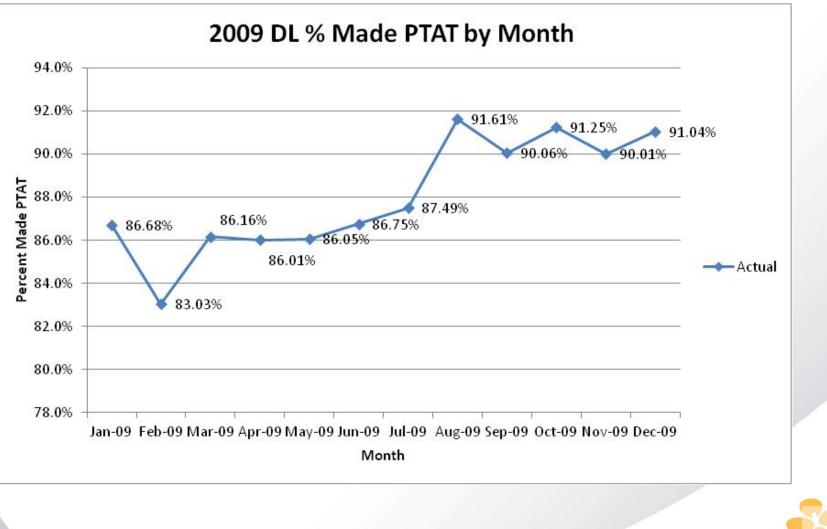
5-7 Days



#### **2009 DL Average TAT Line Chart**



#### 2009 % Made PTAT Line Chart



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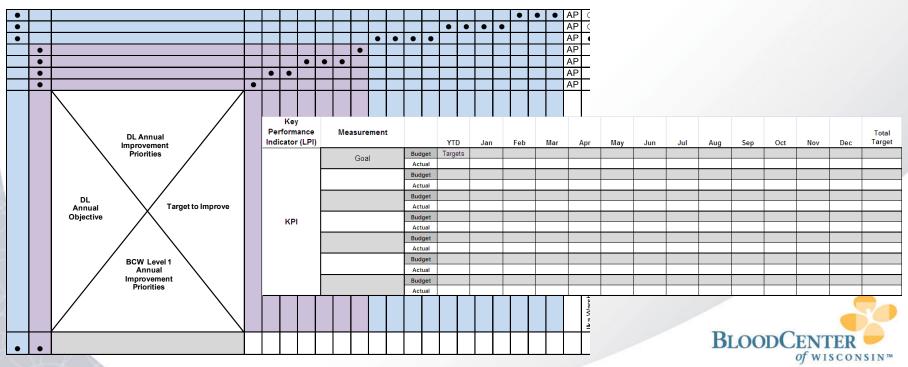
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Strategy Deployment Driving Progress Adjusting the Goal



## **Changing the Approach for 2010**

- Launched Strategy Deployment
  - <u>**Define**</u> key strategic initiatives to establish growth
  - <u>Monthly</u> review of performance
  - <u>**Track</u>** performance using Key Performance Indicators (KPIs)</u>
- Impact on TAT: Monitored as % Made PTAT



## **2010 - Driving the Progress**

#### **Rewarding the Positive**

- Individually celebrated labs that made monthly goal in SD
- Individually awarded
   "Trophy" to lab with best 3 month rolling-average RA

	% Made	Jun-Aug	
	DL	93.5	
	HEM	92.1	
	HLA	<mark>9</mark> 3.7	
	IRL	<mark>91</mark> .9	
<	MDL	95.5	$\triangleright$
	PNIL	95.2	

#### **Enforcing Accountability**

• Individually put labs that did not meet goal into Countermeasure

	Blood Ce	enter of Wisconsin Cou	nterme	asure		
Business Unit: Diagnostic Labor	ratories		Date:	9/14/	2011	]
Annual Improvement Priorit	y KPI	7	Owner:			]
Target to Improve	9 % Made TAT	]				
DL % Made PTAT by 1 545 545 545 545 545 545 545 54	Month 307 55.5	Percent Made by Lab August 20. 95.4 99.3 94.5 99.5 99.3 91.5 99.5 99.5 99.3 91.5 99.5 99.5 99.5 99.5 99.5 99.5 99.5	11 	A CONCOLUMN TO A CONCOLUM	Pareto - HEM Reas	
Sep-10 Oct-10 Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 Apr-11 May-11 Jun-11 Jul-11 Aug-11					Reason Codes	
Sep-10 Oct-10 Nov-10 Dec-10 Jan-11 Feb-11 Mar-1	1 Apr-11 May-11 Jun-11 Jul-11 Aug-11					on Codes
Sep-10 Oct-10 Nov-10 Dec-10 Jan-11 Feb-11 Mar-1	Root Cause Identified	What	Who	Countermea: When		on Codes
Problem Statement August 2011 - HEM PTAT was 91.5%. Did not meet PTAT of		s During extended absences, 1.			sure Impact	
	Root Cause Identified Directors were absent 3 week during the month of August causing an increase to <i>Repeat</i> to Confirm and Waiting for	s During extended absences, 1. Consult with other MDs	Who	When	sure Impact Increased coverage and	
Problem Statement August 2011 - HEM PTAT was 91.5%. Did not meet PTAT of	Root Cause Identified Directors were absent 3 week during the month of August causing an increase to <i>Repeat</i> to Confirm and Waiting for	s During extended absences, 1. Consult with other MDs regarding abnormal interps. 2. Enable alternative director	Who KDF SH & DL	When 9/30/2011	Increased coverage	



MDL has the highest % Made PTAT

## **2010 - Driving the Progress**

#### **Benefits**

- Fostered "healthy" competition between labs
- Drove the message of TAT at the staff level
- Helped get staff engaged in process improvements

#### **Drawbacks**

- One or two labs tended to win the bowl every month
- Didn't consider the support teams helping to make the process improvements
- Monthly award intervals penalized the labs with long term solutions
- Enforced silos



## **2010 - Driving Progress**

HLA Sequencing First Pass Yield - Six Sigma Project

#### • Problem Statement:

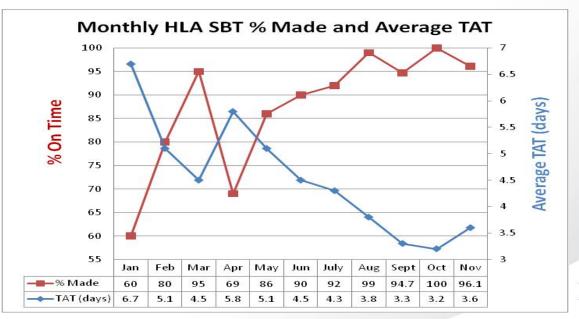
During the period from 2/12/10 to 7/16/10 the first pass yield for the HLA sequencing process was observed to be 57.9%

#### • Objective Statement:

Improve the HLA sequencing first pass yield from 57.9% to >80% by 7/30/10.

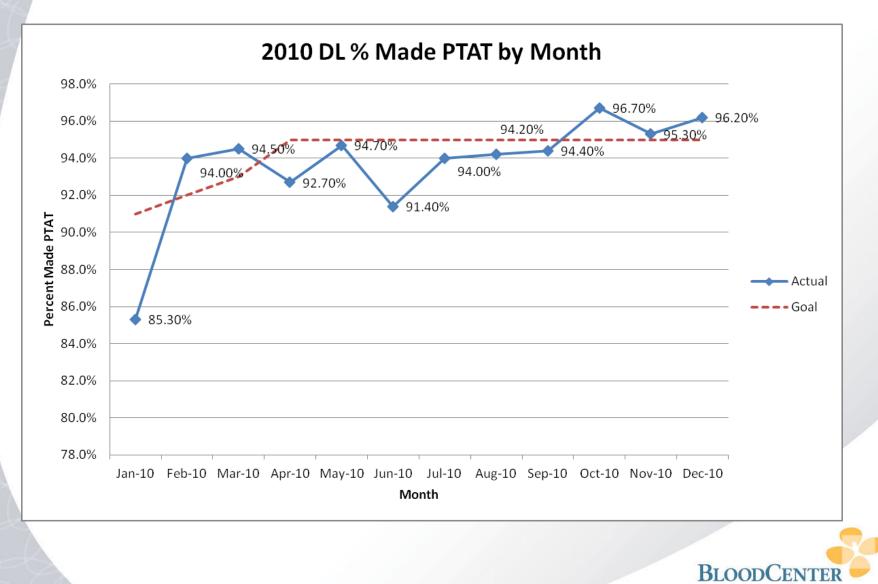
#### • Primary Metric Definition:

**First Pass Yield** – frequency of sample progression through the entire sequencing process without having any step repeated. This is correlated to the repeat rate for any of the individual sequencing assays





#### **2010 – Adjusting the Goal**



of wisconsin™

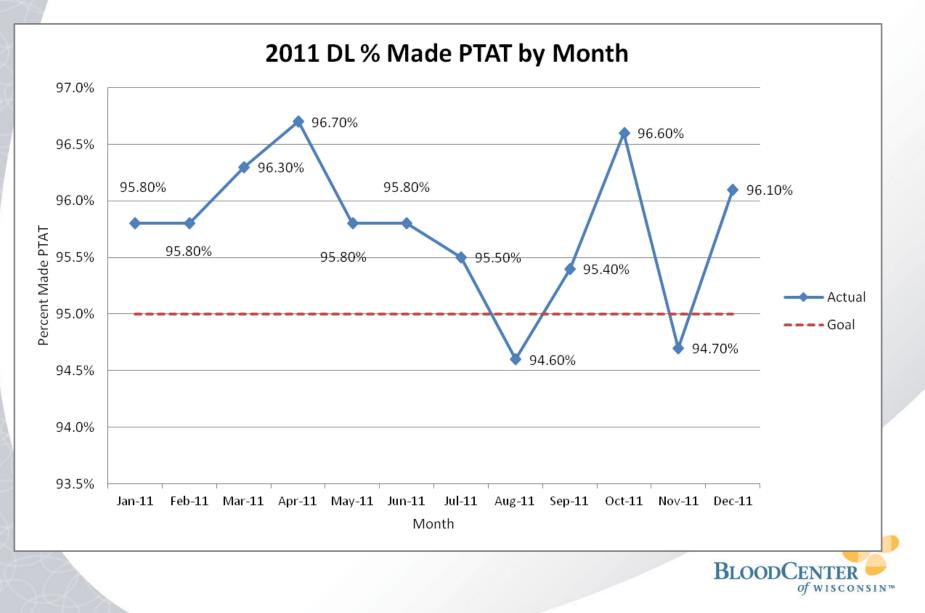
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# Adjusting the Goal Progress Check

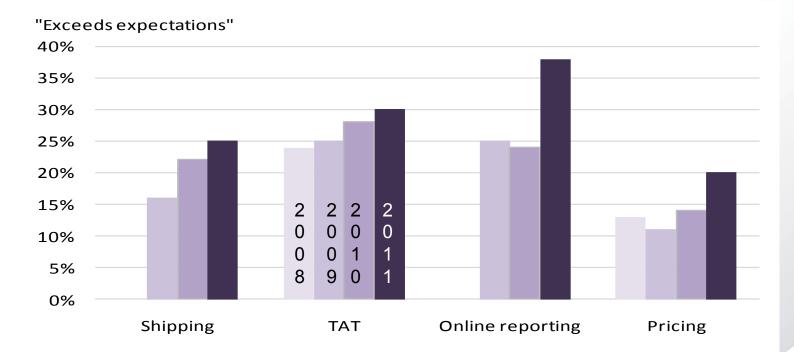


#### **2011 – Adjusting the Goal**



## Survey result comparisons and trending

• Evidence of overall positive trending or improvement with shipping procedures, TAT, online reporting & pricing





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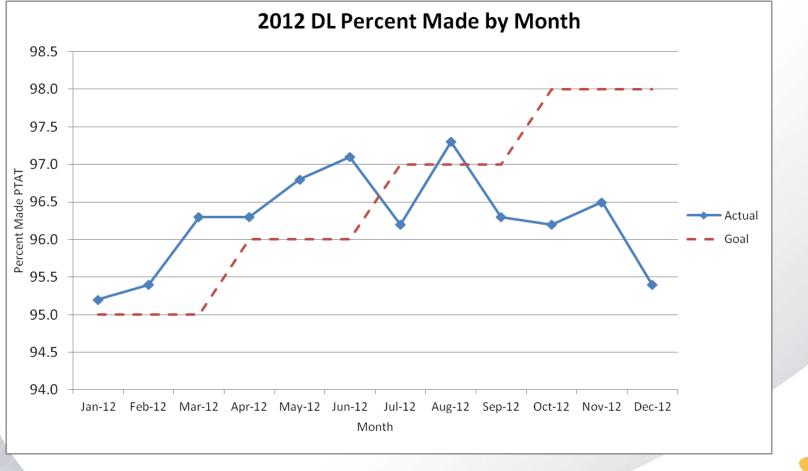
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Adjusting the Goal Weekly Pulse Monthly Report 2013 Planning



## January 2012 – Adjusting the Goal

- Incremental increase in PTAT goal each quarter
- Ended the Trophy award



**BLOODCE** 

of WISCONSIN

## Weekly Pulse...

DL	
Ν	2073
TAT	2.8
% Made	98.1%
% Exceed	1.9%
# Made	2033
# Exceed	40

#### IRL

N	34
TAT	1.5
% Made	94.1%
% Exceed	5.9%
# Made	32
# Exceed	2

#### HEM

N	668
TAT	3.2
% Made	98.4%
% Exceed	1.6%
# Made	657
Exceed	11

#### MDL

Ν	100
TAT	2.9
% Made	100.0%
% Exceed	0.0%
# Made	100
# Exceed	0

#### 8.4% % Ma

Ν

TAT	3.9
% Made	97.5%
% Exceed	2.5%
# Made	467
Exceed	12

#### ONC

HLA-Overall

N	92
TAT	5.7
% Made	100.0%
% Exceed	0.0%
# Made	92
# Exceed	0

#### HLA-SBT

479

Ν	179
TAT	4.0
% Made	100.0%
% Exceed	0.0%
# Made	179
Exceed	0

#### PNIL

N	700
TAT	1.4
% Made	97.9%
% Exceed	2.1%
# Made	685
Exceed	15

# CCR N 45 Avg TAT 6.1 %Made 95.6% %Exceed 4.4% #Made 43 # Exceed 2

CCR data is already included in the individual and overall lab totals. This box breaks out the CCR data to give a snapshot of its impact on the overall DL total.



## **July 2012 – Monthly Report Modifications**

#### One comprehensive DL report

PNII

Avg TAT

%Made

%Exceed

#Made

95.4%

4.6%

Av Exceed

7345

3.3

95.4%

4.6%

- Individual and overall laboratory dashboards .
- Individual lab p-charts
- One section for each lab highlighting "top 3" tests

#### PNIL Monthly Turn Around Time (TAT) Report

Avg TAT

%Made

%Exceed

#Made

#Exceed

12/01/2012 - 12/31/2012

98.5

98

97.5

97 96.5

96 95.5 95 94.5 94

Av Exceed #DIV/0!

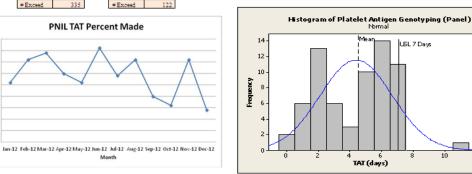
#### Summary:

In the month of December, PNIL completed 66 Platelet Antigen Genotyping panel tests. Of these 66, 10 (15.2%) exceeded the published TAT (PTAT) of 7 days.

Of the 65 tests completed in December, 21.2% were completed in 2.0 to 2.9 days, 25.8% 5.0 to 5.9 days, and 15.2% were completed in 7.0 or greater days. In sum, 84.8% were completed in less than 7 days.

StDev 2.282

Please see last month's report for more details: PNIL November TAT Report



#### PNIL Platelet Antigen Genotyping 12.00 10.00 Father Mother TAT: 7 Day 8.0 2.00

Crossmatch		MACE		Plt Atg Genotyp	ing
N	33	N	93	N	(
Avg TAT	2.9	Avg TAT	2.7	Avg TAT	4
%Made	100.0	%Made	100.0	%Made	84
%Exceed	0.0	%Exceed	0.0	%Exceed	15
#Made	33	#Made	93	#Made	1
# Exceed	0	# Exceed	0	# Rynaed	

Month

#DIV/0

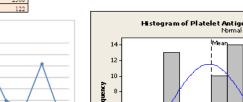
The reason these three tests were selected was because each of them is part of the NATP test. Each of the three sections below contains a very high level overview of the three tests compared to last month's data.

Av Exceed

Test TAT Range (days)	# of tests resulted	% of Total Test	Cumulative %
< 1.0	3	4.5	4.5
1.0-1.9	5	7.6	12.1
2.0-2.9	14	21.2	33.3
3.0-3.9	6	9.1	42.4
4.0-4.9	3	4.5	47.0
5.0-5.9	17	25.8	72.7
6.0-6.9	8	12.1	84.8
≥7.0	10	15.2	100.0
Total	66		100

10





Top 3 Assay Dashboard

NATP

Timeframe

Monthly

**Overall PTAT** 

#### **Streamline the Calculations**

	E	31 🗸 🤇	fx
	Α	В	C [
		DL	
		Ν	=SUM(F3,I3,F11,L11,C11,I11)
		TAT	=AVERAGE('Clean Data'!G:G)
		% Made	=1-C6
		% Exceed	=C8/C3
		# Made	=SUM(F7,I7,F15,L15,C15,I15)
		# Exceed	=SUM(F8,I8,F16,L16,C16,I16)
)		IRL	
I		N	=COUNTIF('Clean Data'!A:A, "IRL")
2		TAT	=AVERAGEIFS('Clean Data'!G:G, 'Clean Data'!A:A, "IRL")
3		% Made	=1-C14
4		% Exceed	=C16/C11
5		# Made	=C11-C16
6		# Exceed	=COUNTIFS('Clean Data'!\$A:\$A, "IRL", 'Clean Data'!\$H:\$H, "exceed tat")
7			



#### **Test Specific Formulas**

A	D	U	U	L C	Г	G		1	J
HEM									
	VWF Mult	timers		VWF Antig	en		VWF Ristoc	etin	
	N	342		N	229		N	273	
	Avg TAT	4.7		Avg TAT	2.5		Avg TAT	2.7	
	%Made	98.8		%Made	100.0		%Made	100.0	
	%Exceed	1.2		%Exceed	0.0		%Exceed	0.0	
	#Made	338		#Made	229		#Made	273	
	#Exceed	4		#Exceed	0		#Exceed	0	
	Av Exceed	11.5		Av Exceed	#DIV/0!		Av Exceed	#DIV/0!	
× .									

	A	В	C C
1	HEM		
2		VWF Multimers	
3		N	=COUNTIFS('Monthly Data'!\$B:\$B,"*vwf multimer*",'Monthly Data'!\$A:\$A,"Hem")
4		Avg TAT	=AVERAGEIFS('Monthly Data'!\$G;\$G, 'Monthly Data'!\$A:\$A, "hem", 'Monthly Data'!\$B:\$B, "*vwf multimer*")
5		%Made	=(C7/C3)*100
6		%Exceed	=100-C5
7		#Made	=C3-C8
3		#Exceed	=COUNTIFS('Monthly Data'!\$A:\$A, "HEM", 'Monthly Data'!\$H:\$H, "exceed tat", 'Monthly Data'!\$B:\$B, "*\wf multimer*")
3		Av Exceed	=AVERAGEIFS('Monthly Data'!\$G;\$G, 'Monthly Data'!\$A:\$A, "HEM", 'Monthly Data'!\$B:\$B, "*wf multimer*", 'Monthly Data'!\$H:\$H, "exceed tat")
0			



### **December 2012 - Planning for 2013**

- Reviewed the KPI Goal
  - How S.M.A.R.T is it?

2012:

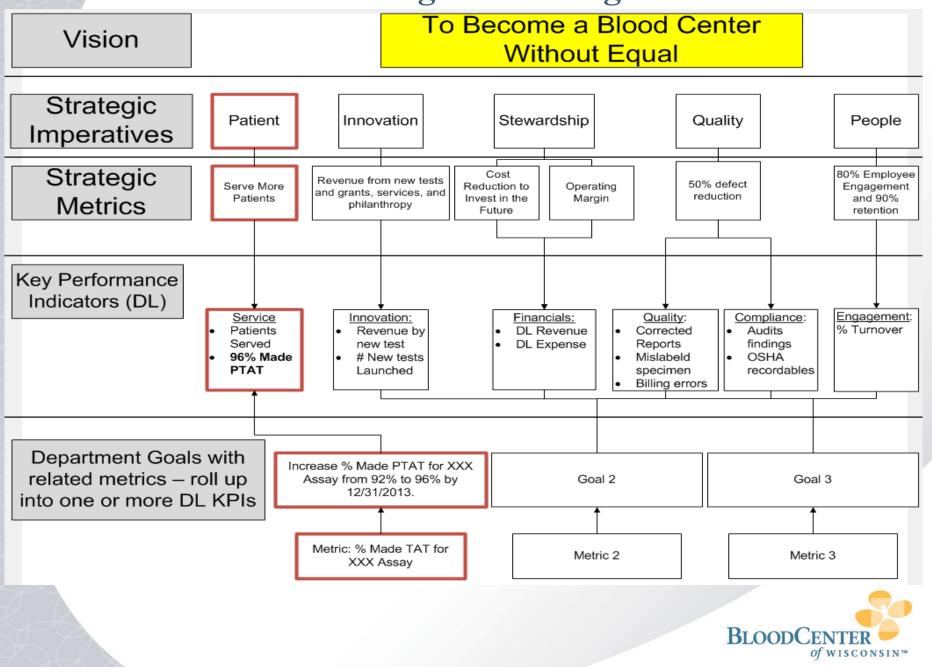
% Made PTAT	Target	98%	95%	95%	95%	96%	96%	96%	97%	97%	97%	98%	98%	98%	98%
	Actual	96.3%	95.2%	95.4%	96.3%	96.5%	96.8%	97.1%	96.2%	97.3%	96.3%	96.2%	96.5%	95.4%	96.3%

- Revised the goal
- Established unified approach to tracking and countermeasure 2013:

% Mode PTAT	Budget	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	96%	
% Made PTAT	Actual	97.4%	94.9%	97.4%	97.1%	97.5%	97.2%	96.6%	96.4%						96.7%	
																ľ



#### **Introduction of the "Alignment Diagram"**



### **December 2012 - More planning for 2013**

- Conducted our first Operational Retreat
- Launched Huddle System in DL
- Built a new Support Analyst Team
  - Centralized data analysis
  - Comprehensive approach





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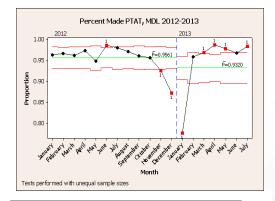
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# Monthly Reports SD Presentation Reason Code Guide



#### **January 2013 - Monthly Reports**

- Overall Made PTAT p-Chart
- Individual and overall laboratory dashboard
- Analysis
- Overall reason code table
- Individual lab p-Charts
- Individual lab reason codes



762

4.0

07

424

98.3%

.7%



Analysis

Individual Lab All of the tan boxes below include CCR data in the counts, except where noted.

Avg TA

%Made

%Excee #Made #Exceed

Ave TA

%Made

%Exceed

#Made

#Exceed

DL		
N	8241	
Avg TAT	3.2	
%Made	96.4%	
%Exceed	3.6%	
#Made	7948	
#Exceed	293	

HLA	
N	1981
Avg TAT	4.1
%Made	96.6%
%Exceed	3.4%
#Made	1913
#Exceed	68

IRL		
N	139	
Avg TAT	1.6	
%Made	87.8%	
%Exceed	12.2%	
#Made	122	
#Exceed	17	

298
5.0
99.0%
1.0%
295
3

NIL	
	2637
vg TAT	1.4
iMade	96.2%
Exceed	3.8%
Made	2536
Exceed	101

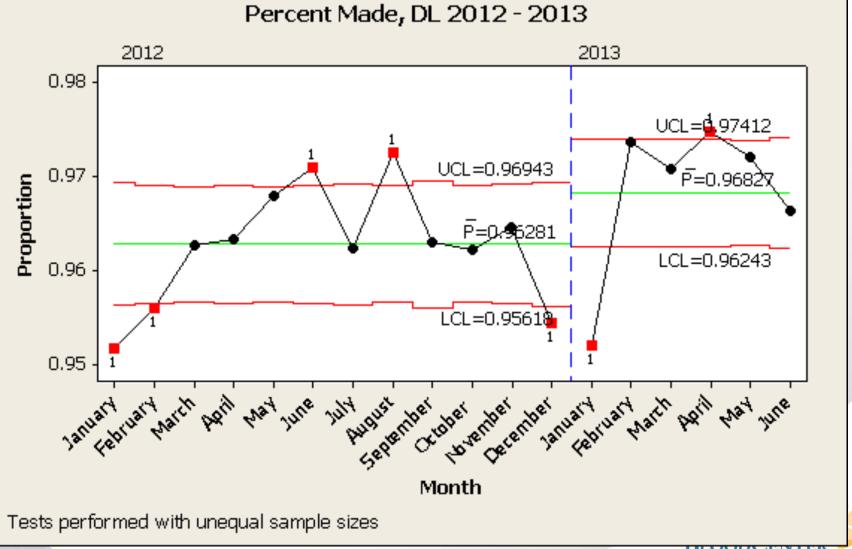
SK	)	DL wo CCR			
	99	N			
	4.4	Avg TAT	$\mathbb{Z}$		
	100.0%	%Made			
	0.0%	%Exceed			
	99	#Made			
	0	# Encode			

The PTAT for DL in July was similar to June's (96.6%), but down compared to the PTAT average for February to May (97.3%). Although DL is in control on its P-Chart, the last three months, including July, are trending downward.

The two most frequently used reason codes were "Repeat to Confirm" and "Multiple assays per an encounter". Combined, these two reason codes made up 40% of 291 reason codes entered by staff.

RowLabels	Failed test - Repeated on next run	Repeated E/e on next run/WkD type 4	Weekend	Grand Total
RCGCommon	6	2	1	9
DAT-Neg			3	3
RCGVariant			2	2
RhD Study			1	1
Cold Autoantibody			1	1
HTLA			1	1
Grand Total	6	2	9	17

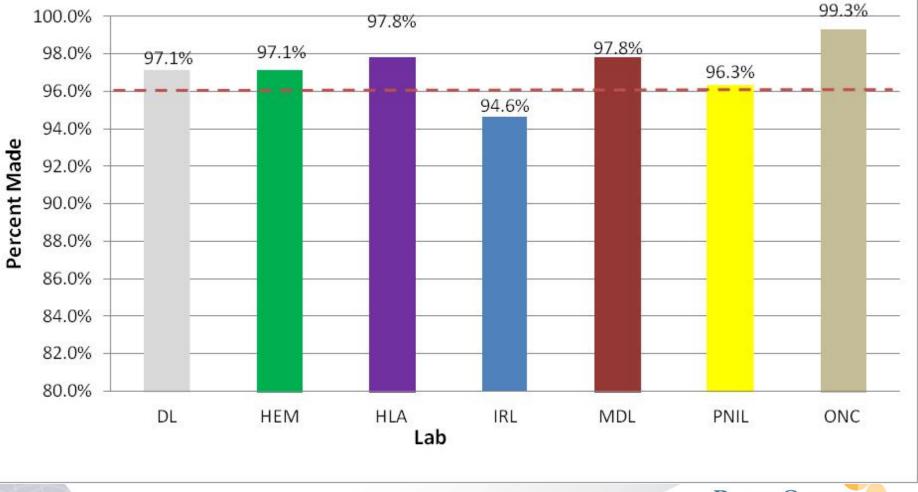
#### **January 2013 - Strategy Deployment Presentation**



of wisconsin™

### DL % Made PTAT 3 Mo RA

DL % Made PTAT by Lab 3 Mo RA (April 2013 - June 2013)



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#### **Calculation Updates**

- HLA Flow Cytometric Crossmatch and QLS Override
  - Turned on to accommodate FRD data request
  - Not historically included and currently deleted from the data set
- Meeting with RC users on July 8<sup>th</sup>
  - New RC to be added
  - Will start to see in July's data



## April 2013 - Reason Code Guide

- Input from user group
- Consolidated codes that were similar
- Assigned a definition for consistency in coding
- Revisit the guide quarterly

Reason Code	Reason	Definition			
1	Assay Failure	Entire assay failure due to controls, calibrator, or technical error (i.e. QC failure).			
2	Equipment/Instrument Failure	Test completion delayed due to equipment or instrument failure.			
5	Order Entry Error	Test was ordered incorrectly by BCW or client.			
6	Supply/Supplier Problem	Test held because of a supplier or supply problem such as backordered reagents, bad lot number, or bad batch of kits.			
7	Process Inefficiency	Testing is delayed due to a problem in or deviation from the process, such as misplaced paperwork or samples or delayed "send out" testing ("send out" testing refers to reference labs outside of BCW).			
8	Staffing	Not enough staff to complete testing due to PTO, illness, or extended leave.			
9	Repeat to Confirm	Repeating a sample or samples based on a defined set of rules or by director request.			
10	Waiting on Customer for Missing Info	Client provided an incomplete requisition and testing must be delayed until required information is gathered.			
11	Reflex/Additional Testing Required	Additional testing on a sample or samples that involves a change in method or reagent compared to the original run.			
15	Weekend	Testing is delayed because staff is not scheduled on weekend or assay is not run on weekend.			
16	QLS Override	IGNORE			
17	Waiting for Director Review	Problem or routine case that is waiting on director review and/or signature before it can be completed.			
19	Assay Scheduling	Sample received on a day or at a time that it missed the scheduled start of an assay.			
20	Holiday	Sample(s) arrived on or around a BCW holiday.			
21	Sample Problem	Sample that delays testing due to reasons related but not limited to insufficient amounts, incorrect sample type, and/or sample integrity.			
22	Minimum Batch Size Not Met	Sample held for next test run because there were not enough samples to justify a run.			
23	TAT Formula Error	Test that, in reality, did not miss the published TAT. Error was due to an incorrect TAT calculation involving Labtest or immediate order in the database. Applies primarily to HEM Interp and Comments.			
25	Multiple Tests Per Encounter	Test or group of tests that is waiting on results from another part of the group. This test(s) cannot be reported until the other(s) is completed.			
27	Waiting on results from another BCW Lab	PTAT is exceeded because reporting lab was waiting for results of testing performed by another BCW lab.			

### **April 2013 - Reason Codes in the SD Presentation**

							Grand	% <b>of</b>
Reason Code	HEM	HLA	IRL	MDL	ONC	PNIL	Total	Codes
Process Inefficiency		8				12	44	15.4%
Multiple Tests Per Encounter		16					43	15.1%
Waiting for Director Review	26	5	3	4	4		42	14.7%
Reflex/Additional Testing Required	5	9		7		17	38	13.3%
Repeat to Confirm	27	3		1	2	2	35	12.3%
Assay Failure			1			26	27	9.5%
Assay Scheduling	2					22	24	8.4%
TAT Formula Error - Labtest	11				1		12	4.2%
Sample Problem	7					3	10	3.5%
Weekend	3		5				8	2.8%
Supply/Supplier Problem						1	1	0.4%
Waiting on Customer for Missing Info						1	1	0.4%
QLS Override		20					0	0.0%
Total	132	41	9	12	7	84	285	



# CONTENTS

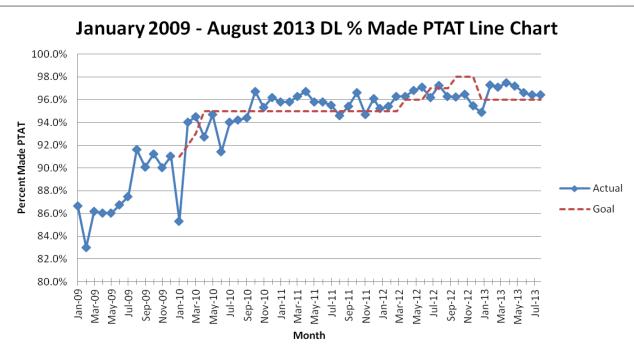
Prologue... Chapter 1.....2008 Chapter 2.....2009 Chapter 3.....2010 Chapter 4.....2011 Chapter 5.....2012 Chapter 6.....2013 Epilogue...

# 2014 Planning and Beyond...



#### **2014** Planning and Beyond...

- Improved ways of capturing the customer voice real-time
- Raising the bar– dropping published TAT (PTAT) while continuing to meet our goal of % made
- Serving 24/7 customer operations as an esoteric laboratory
- Alignment of Strategic and Operational Goals
- Lowering the published TAT





#### The secret to making TAT work as a KPI...

- Establish the voice of the Customer
  - Define your customer
  - Know where you are going
- 2. Set a goal
  - SMART
  - Supported from the top down and bottom up
- 3. Monitor progress toward the goal
  - Select a metric
  - Display the progress
  - Establish a process to support progress



#### What we think we did well –

#### From the beginning:

- Captured the costumer voice
- Selected an actionable goal based on customer feedback
- Enrollment of DL and Corporate support groups from the beginning
- Centralized team with protected resources to "own" launch and support

#### • Along the way:

- Simplified the metric
- Centralized team to standardize and report the metric
- Used lessons learned to reground our goal each year
- Continuously challenged the labs and each other
- Realized the importance of and included Contract Research in TAT
- Used operational retreat to ground operations around KPIs



#### What we think we could have done better -

- Initiated goal planning earlier in the year
- Grounded our goals and focused on alignment from the beginning
- Refrained from overloading on too many metrics and projects at once
- Established clear agreement on how to measure and measure consistently

• Rolled out standard work from the beginning





#### **Contact information**

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### **Helpful Sites**

- Needs Assessment Tools: http://www.needsassessment.org/
- **Program Evaluations**: http://www.nrepp.samhsa.gov/ Courses/ProgramEvaluation/NREPP\_0401\_0010.html
- Tag Clouds: http://tagcrowd.com/
- SMART Goals Template: http://hrg.stanford.edu/documents/ SMARTGOALSTemplate2012.doc
- Alice in Wonderland Images (unless otherwise noted): http:// fromoldbooks.org

