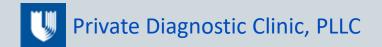


# **Action OI Introduction**

August 2018



# **About Action Ol**

- Healthcare operations database
- On-line data collection & report writing
- Quarterly and annual data submission cycles
- Reporting database refreshed quarterly
- Actual and Normalized data views





## **Benchmarking Overview**



Benchmarking alone is merely a focusing tool to highlight areas of potential opportunity.

#### What it is

- A directional comparison of a healthcare provider's performance against a national peer group
- An approach to estimate <u>potential</u> areas for improvement opportunities
- A process to help the Executive Team understand the magnitude of the opportunity for possible target setting

#### What it is not

- A prescriptive list of recommendations for immediate implementation
- A precise analysis of work flows, bottlenecks, waste or redundancy
- A reflection on the strength of present or past management

#### **Action O-I Overview**

- The largest database of client-supplied data in the industry
- Over 750 healthcare organizations across the country submit operational and financial data
- Provides facility and departmental level performance benchmarks

#### Private Diagnostic Clinic, PLLC

## **Action OI Benefits**





- Identify opportunities for performance improvement thru <u>benchmarking</u>
- Compare department and facility practices to efficient practices at similar facilities
- Recognize and project operational trends
- Assist in the budget and planning cycles



# **Benchmarking Limitations & Barriers**

Perceived Limitations/Challenges of Benchmarking

- Every difference is seen as an opportunity benchmark fatigue
- Consideration is not given to the organization or department's unique issues (e.g., patient mix, clinical programs, etc.)
- Benchmarks represent a "snapshot" at specific point in time: static measure of an organization's performance in a dynamic environment
- No outside institution is just like Duke
- Benchmarking data is inherently messy it contains outliers and anomalies

#### **Potential Barriers and Negative Outcomes**

- The imperative for change is not established and effectively communicated
- Buy-in to the need for change is inconsistent
- <u>"Our organization is different"</u> focus remains on discrediting the data versus focusing on issues
- Redesign of underlying work processes are not considered to support opportunities for change
- Lack of medical staff participation and support

## How does the PDC use Action OI?



- Compare clinics against peers within the PDC
- Compare clinics against national average benchmarks
- Continual performance improvement: strive towards 75th percentile for positive indicators and 25th percentile for negative indicators
- Produce a heat map by service, by clinic to compare to benchmarking metrics
- PDC Finance identifies and communicates improvement opportunities to clinics
- Clinical Operations team and HCAs create plans to be implemented for the clinics that are identified
  - Clinical operations leads discussions with clinical department leadership around strategies for process improvement
  - Down stream revenue analysis complements Action OI
- Elements considered in annual employee reviews



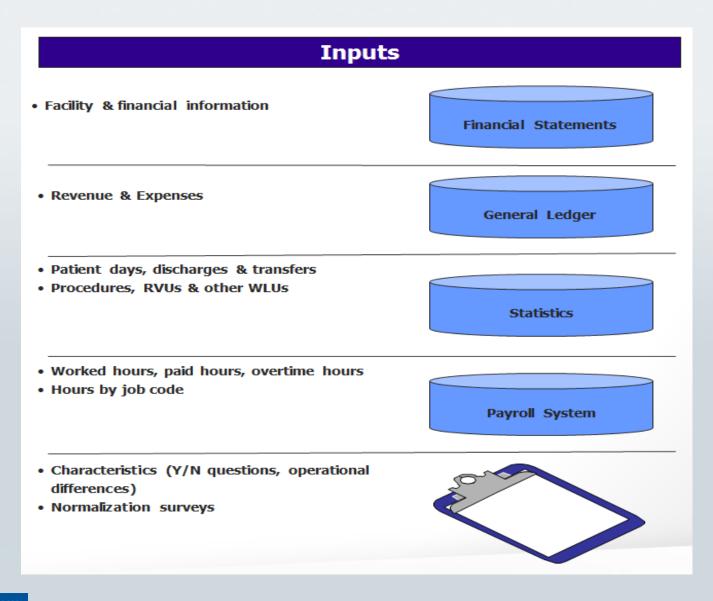
# **Users of the Action OI Data**



- HCAs (Education Process)
- Physician Leadership within clinics
- Clinical Department Administrators
- PDC Leadership Team (Clinical and Executive)
- Labor Management Committee (LMC)
- PDC Finance (Budget Process)

## **Key Data Elements**



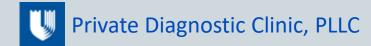


#### Private Diagnostic Clinic, PLLC



*Indicators are automatic calculations based on data element values from the Data Collection module* 

nt Visit	4.04	(32,115 hrs / 7,957 visits)						
	\$238.91	(\$1,901,012 / 7,957 visits)						
Labor Expense		Visits						
\$1,	901,012	7,957						
		\$238.91						



## **Metric Benchmarking Options**



Facility: Standard Department: Department: Compared to:	Duke University Private Diagno 02215, Allergy Clinic Asthma Allergy Airways Allergy Clinic Compare Group		Cu	Stom Com Quarterly Per				IBM	ActionOI®		
		Host Value			Percentile						
Measure		1Q 2018	Host Percent Rank	25th	50th	75th	Compare Group Average	Minimum	Maximum	Sample Size	
Dept Operating Statist	ics										
Days of Operation pe	r Week	5.00	100.00 %	4.00	5.00	5.00	4.41	2.50	5.00	17	
Hours of Operation p		40.00	70.59 %	29.75	40.00	40.75	36.15	17.00	51.00	18	
Patient Examination \$	Spaces	18.00	100.00 %	4.25	6.00	8.00	6.94	2.00	18.00	18	
Patient Visits		9,487.00	100.00 %	629.05	1,955.01	2,166.03	2,067.67	102.00	9,487.00	18	
Patient Initial Visits				b	b	b	164.00*	164.00*	164.00*	1	
Patient Visits with Ph	ysician Provider			b	b	b	b	ь	b	0	
Procedure Visits				b	b	b	b	ь	b	0	
Average Wait Time F	or Initial Visit			b	ь	b	5.00*	5.00*	5.00*	1	
New Patient Average	Wait Time for Initial Visit	21.14	66.67 %*	9.36*	15.51*	23.71*	17.56*	7.82*	31.42"	4	
APC Relative Weight		134,461.24	100.00 %	15,908.40	25,422.95	40,063.49	34,556.67	3,079.27	134,461.24	17	
Professional Work R	/Us (wRVUs)	10,744.65	100.00 %	213.65	558.18	1,552.72	1,633.42	20.73	10,744.65	17	
Total Inbound Calls				b	b	b	b	b	b	0	
Total Abandoned Cal	ls			b	b	b	b	ь	b	0	
Patient Appointments	Scheduled	16,048.00	100.00 %*	2,594.17*	5,832.27*	10,402.19*	7,164.00*	944.00*	16,048.00*	4	
Total Bumped Appoir	tments	386.00	66.67 %*	51.50*	225.52*	424.75*	250.75*	11.00*	541.00*	4	
Missed Appointments	i	3,927.00	100.00 %*	713.05*	1,686.58*	2,856.04*	1,882.50*	230.00*	3,927.00*	4	
Patient No Shows		1,178.00	100.00 %*	237.02*	618.03*	1,004.76*	623.75*	81.00*	1,178.00*	4	
Third Next Available	Appointment			b	b	b	58.00*	58.00*	58.00*	1	
Worked Hours: Staff		7,766.09	100.00 %	612.32	1,669.75	3,494.23	2,357.30	66.00	7,766.09	18	
Worked Hours: Physi	cian Provider	0.00	100.00 %	0.00	0.00	0.00	0.00	0.00	0.00	18	
Worked Hours: Mana	gement	0.00	b	46.98*	59.00*	165.34*	146.14*	20.25*	494.86*	6	
Worked Hours: RN		2,638.65	100.00 %	572.05	892.42	1,160.36	1,008.83	274.02	2,638.65	15	
Worked Hours: LPN,	LVN	2,952.36	b	251.36	421.47	538.35	518.45	-0.77	1,393.31	10	
Worked Hours: Other	Patient Care Provider	2,175.08	91.67 %	180.00	416.10	1,154.57	758.57	62.70	2,671.10	13	
Worked Hours: Other	Support Staff			507.77*	880.89*	1,033.36*	772.38*	143.97*	1,299.42*	7	
Worked Hours: Overt	ime	0.00	b	4.18	16.58	41.78	30.29	1.19	118.50	12	
Paid Hours: Staff		8,895.85	100.00 %	692.15	1,854.32	3,809.95	2,680.09	66.00	8,895.85	18	
Paid Hours: Physician	n Provider	0.00	100.00 %	0.00	0.00	0.00	0.00	0.00	0.00	18	
Paid Hours: Contract	Labor	0.00	100.00 %	0.00	0.00	0.00	0.00	0.00	0.00	18	
Labor Expense		225,594.89	а	а	а	а	а	а	а	18	
Labor Expense: Phys	ician Provider	0.00	94.12 %	0.00	0.00	0.00	5,254.81	0.00	94,586.55	18	
Overtime Salary Expe	ense			62.27	177.51	572.65	699.68	-0.01	3,185.98	10	
Other Direct Operatin	g Expense	89,258.07	100.00 %	6,736.66	12,264.98	27,627.97	22,479.47	372.00	89,258.07	18	



# "CODEC"

"SCORES"			~	Target	
	Host Value		7		7
Measure	1Q 2018	Host Percent Rank	25th	50th	75th
Procedure Visits as a % of Patient Visits			b	b	ь
Procedure Visits per Operating Day			ь	ь	ь
Procedure Visits per Exam Space per Operating Day			ь	ь	ь
APC Relative Weight per Patient Visit	14.17	41.18 %	9.20	15.86	19.75
Professional Work RVUs per Patient Visit	1.13	81.25 %	0.20	0.41	1.05
Patient Bump Rate	2.41	33.33 %*	1.89*	4.38*	6.48*
Call abandonment rate			ь	b	ь
Missed Appointments as % of Patient Appointments Scheduled	24.47	33.33 %*	24.44*	26.13*	28.18*
Patient No Shows as % of Missed Appointments	30.00	0.00 %*	32.30*	34.14*	35.89*
Patient No Shows as % of Patient Appointments Scheduled	7.34	0.00 %*	8.27*	8.89*	9.67*
Labor Productivity Ratios		$\frown$			
Hours Worked per Patient Visit	0.82	29.41 %	0.78	1.14	1.48
Hours Worked per APC Relative Weight	0.06	31.00 %	0.05	0.06	0.09
Hours Worked per Professional Work RVU	0.72	6.25 %	1.02	2.81	4.41
Hours Paid per Patient Visit	0.94	35.29 %	0.84	1.27	1.72
Hours Paid per APC Relative Weight	0.07	35.29 %	0.06	0.08	0.11
Hours Paid per Professional Work RVU	0.83	6.25 %	1.19	3.18	4.83
Cost Ratios					
Staff Average Rate per Hour	25.36	а	а	а	а
Staff Average Rate AWI Adjusted per Hour			а	а	а
Labor Expense per Patient Visit	23.78	а	а	а	а
Labor Expense AWI Adjusted per Patient Visit		$\frown$	а	а	а
Other Direct Expense per Patient Visit	9.24	76.47 %	3.21	5.89	8.97
Total Supply Expense per Patient Visit	6.92	00.00 %	2.42	6.09	10.72
Medical Supply Expense per Patient Visit	3.57	46.67 %	2.06	4.46	10.69
Total Expense per Patient Visit	33.02	23.53 %	33.26	52.86	76.28
Total Expense AWI Adjusted per Patient Visit			39.79	47.78	69.61

#### Labor Productivity Ratios

- Assess efficiency
- Evaluate salary costs based on volume or unit of service

#### **Cost Ratios**

- Expenses divided by volume
- Identifies savings opportunities



#### PDC Heat Map (subset of metrics)



Department & Percentile Benchmark	Patient Visits	- 75th Percentile Patient Visits per Exam Space per Operating Day	-	Hours of Operation per Week	Hours Worked per Patient Visit	E: per	Labor xpense r Patient Visit	Skill Mix: RN %	25th Percentile Missed Appointments as % of Patient Appointments Scheduled	New Patient Average Wait Time for Initial Visit	Patient Bump Rate	Ex per	Total pense Patient Visit	Total Supply Expense per Patien Visit
Asthma Allergy Airways	9058	7.74	139.35	40.00	0.83	S	26.06	28.78	23.88	19.84	4.31	\$	40.20	12.49
Asthma Allergy Airways - Peds	599	1.54	9.22	40.00	1.13	\$	32.98	-	23.54	28.23	4.74	\$	35.51	-
Raleigh Pulmonary & Allergy Consult	3121	3.43	48.02	40.00	2.18	S	57.21	13.47	25.83	6.81	11.22	\$	69.62	8.44
Allergy Clinic - 25th Percentile	652	3.61	17.59	28.13	1.08		* *	33.21	24.00	23.42	4.59	\$	37.71	\$ 3.99
Allergy Clinic - 50th Percentile	1,755	4.76	30.46	40.00	1.43		**	46.79	25.15	26.87	5.37	\$	57.42	\$ 7.82
Allergy Clinic - 75th Percentile	2,253	6.44	37.07	40.63	1.65		* *	61.87	26.35	30.11	6.92	\$	79.48	\$ 12.35
Duke Cardiology of Raleigh	8,475	4.66	130.38	40.00	1.03	\$	39.13	26.57	22.32	14.59	4.27	\$	51.93	12.00
Southpoint - Cardiology	6,573	3.26	101.12	40.00	1.03	\$	37.75	65.33	20.38	22.83	1.59	\$	39.55	1.07
Triangle Heart Associates	10,312	6.61	158.65	40.00	0.98	\$	29.40	30.22	18.02	8.07	1.70	\$	42.74	11.50
Cardiology Clinic - 25th Percentile	1,234	3.24	19.57	40.00	1.32		43.67	22.20	17.74	8.30	1.96	\$	51.75	\$ 1.18
Cardiology Clinic - 50th Percentile	2,254	4.49	35.31	40.00	1.82		64.71	35.32	24.11	16.58	2.95	\$	76.61	\$ 2.32
Cardiology Clinic - 75th Percentile	5,057	5.68	77.81	45.00	2.88		105.72	50.05	36.11	24.52	5.47	\$	126.94	\$ 5.93
Dermatology - 3K	5,788	5.57	89.05	40.00	1.13	\$	28.50	25.82	23.40	68.75	3.30	\$	33.50	4.49
Dermatology - MOHS	2,717	3.80	41.80	40.00	2.10	S	88.77	-	25.66	61.66	-	\$	132.81	33.73
Dermatology - Patterson Place	2,949	5.04	45.37	40.00	1.42	S	35.71	28.49	23.24	61.34	11.17	\$	45.34	6.73
Dermatology - Patterson Place Peds	1,612	3.10	24.80	40.00	1.09	S	32.88	35.34	24.35	63.20	4.01	\$	42.76	8.19
Dermatology - Wake Forest	1,061	2.04	16.32	40.00	2.06	S	47.94	-	28.03	69.23	12.59	\$	60.71	5.68
Dermatology Clinic - 25th Percentile	1,317	3.17	20.34	40.00	0.92		* *	13.99	23.19	29.64	2.12	\$	32.38	\$ 3.65
Dermatology Clinic - 50th Percentile	3,246	4.68	49.94	41.56	1.23		* *	31.90	26.00	42.67	3.88	\$	44.84	\$ 6.20
Dermatology Clinic - 75th Percentile	5,672	6.20	87.26	45.00	1.64		* *	44.56	32.35	57.04	6.27	\$	70.14	\$ 11.80

