Operational Benchmarks in Autism and Impact on Financial Performance

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Discussion overview

- Why do this survey
- Why structure the survey this way
- Who participated
- What did they say
- What does this mean for you/so what (+ case studies)

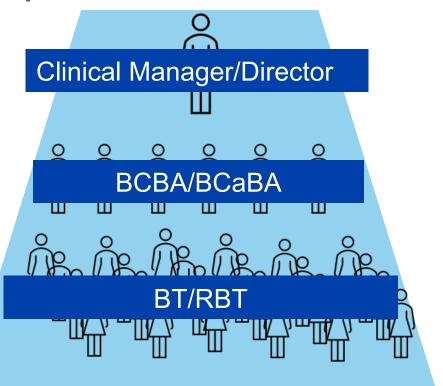
How to consider these results

Surveys will always have noise; focus on the middle 50% of responses

• Where are you are versus the median (ideally, 3rd Quartile) metrics; any improvement opportunities?

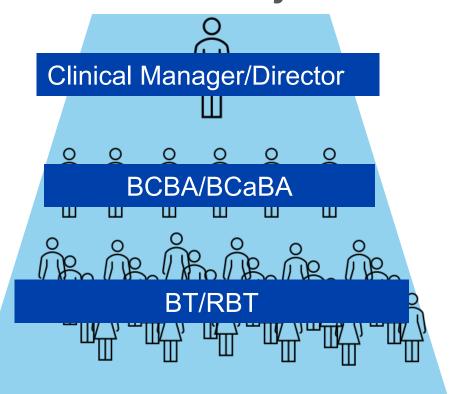
Decision on operational targets is, of course, individual

Operational structure – CD "Pyramid"



Billable / Non-Billable
Expectations?
How many cases?
How many supervisees?
Contractual structure?
Regulatory structure?
Reimbursement?
Compensation systems?

Focus of survey/what metrics



Span of leadership

Clinical director span of control

Productivity (billable to worked hours)

- BTs
- Supervisors
- CDs

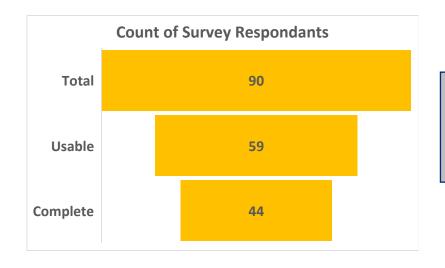
Delivered services pyramid

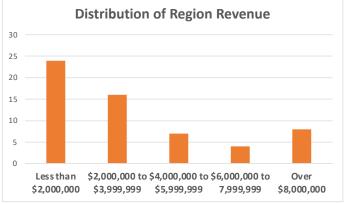
 Direct service to billable supervisor code hours

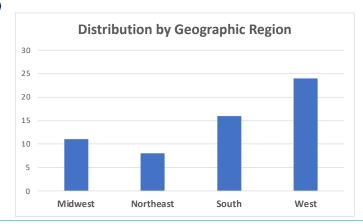
Economics – reimbursement to wage ratio

- BTs
- Supervisors

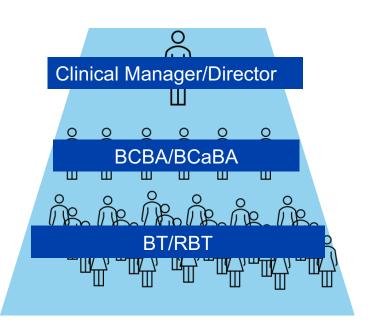
Characterization of respondents







Survey results – the median CD pyramid



Span of leadership

Clinical director span of control – 5.0 direct reports

Productivity (billable to worked hours)

- BTs 77.5%
- Supervisors 85 hours a month (~51%)
- CDs 35 hours a month

Delivered services pyramid

 4.0 direct service to billable supervisor code hours

Economics – reimbursement to wage ratio

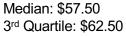
- BTs 2.8
- Supervisors 2.7

30% GM

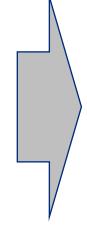
BT economics



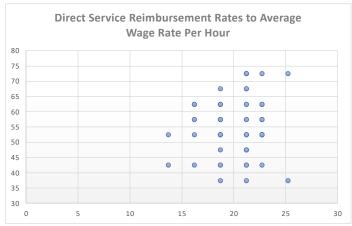


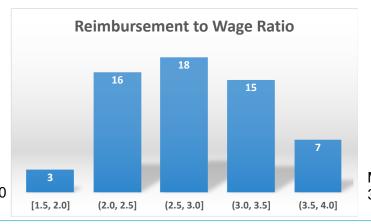






Median: \$21.25 3rd Quartile: \$22.00

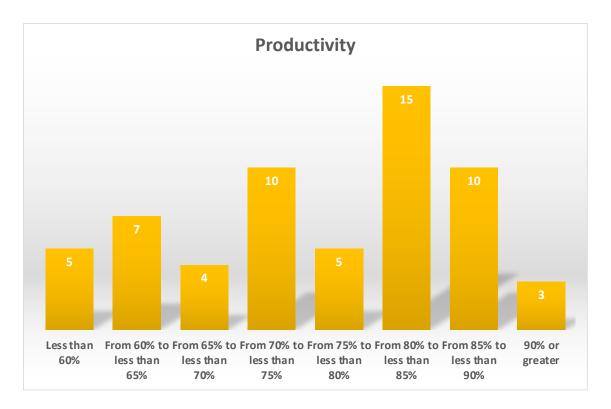




Median: 2.8

3rd Quartile: 3.2

... And productivity



Median: 77.5%

3rd Quartile: 82.5%

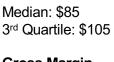
Gross Margin impact: Median -

> Q3: 3 PP

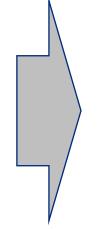
Supervisor economics



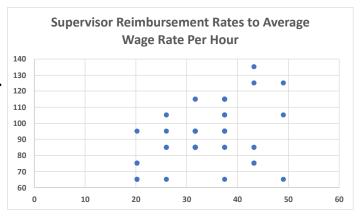


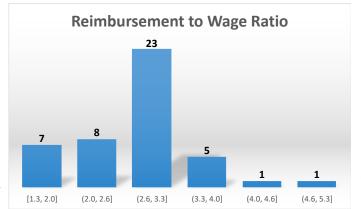






Median: \$5.5K 3rd Quartile: \$6.5K





Median: 2.7 3rd Quartile: 3.1

... And Productivity



Median: 85 hours 3rd Quartile: 105 hours

Gross Margin impact: Median ->

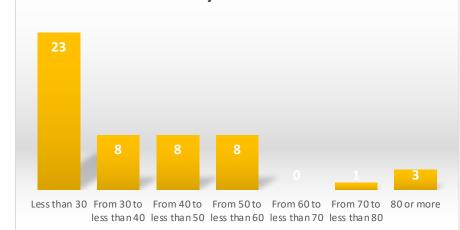
Q3: 4 PP

Clinical director operational metrics



Median: \$7.5K

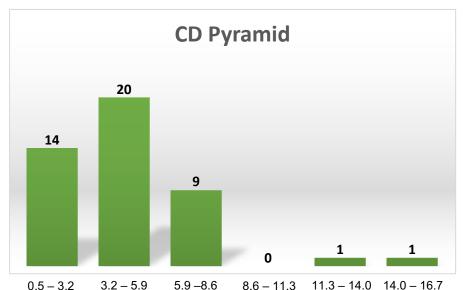
3rd Quartile: \$9.5K



Productivity - Hours a Month

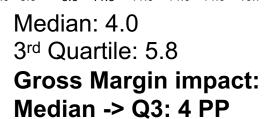
Median: 35 hours 3rd Quartile: 45 hours

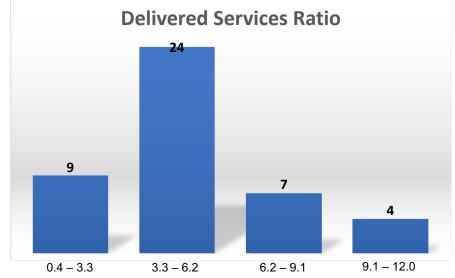
CD Pyramid and Delivered Services Ratio



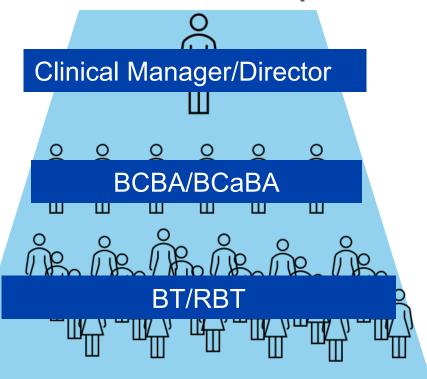
Median: 5.0

3rd Quartile: 5.3





The median CD pyramid ... reprise



Span of leadership

Clinical director span of control – 5.0 direct reports

Productivity (billable to worked hours)

- BTs 77.5%
- Supervisors 85 hours a month (~51%)
- CDs 35 hours a month

Delivered services pyramid

 4.0 direct service to billable supervisor code hours

Economics – reimbursement to wage ratio

- BTs 2.8
- Supervisors 2.7

CD Pyramid financial summary – from median to 3rd quartile metrics

Unit Economics - CD Pyramid

	Median	3rd Quartile
Revenue Month	\$145K	\$268K
Revenue - Annualized	\$1,741K	\$3,216K
Gross Margin - Month	\$44K	\$129K
Gross Margin - Annualized	\$525K	\$1,545K
- %	30%	48%

CD Pyramid profitability – from median to 3rd quartile metrics

Monthly Unit Economics

At Median Metrics

At 3rd Quartile (Modified) Metrics

	Direct		Supervision			
	Services		Clinical		Total	
	Services	Supervisors	Director	Aggregate		
Revenue						
Billable Hours	1,843	425	35	460	2,303	
(x) Reimbursement Rate	<u>\$57.50</u>	<u>\$85.00</u>	<u>\$85.00</u>	\$85.00	<u>\$62.99</u>	
Gross Revenue	\$105,959	\$36,125	\$2,975	\$39,100	\$145,059	
Cost of Service - Payroll						
Productivity	78%	51%	21%	46%	68%	
Hours Worked	2,378	840	168	1,008	3,386	
(x) Effective Rate	\$20.53	\$31.73	\$44.64	\$33.88	\$24.51	
Wages	\$48,821	\$26,653	\$7,500	\$34,153	\$82,974	
(+) Benefits/Taxes	\$9,764	\$6,663	\$1,875	\$8,538	\$18,302	
Labor Costs	\$58,585	\$33,316	\$9,375	\$42,691	\$101,276	
Gross Margin	\$47,374	\$2,809	-\$6,400	-\$3,591	\$43,783	
	45%	8%	-215%	-9%	30%	

	Direct	Supervision				
	Direct Services		Clinical		Total	
		Supervisors	Director	Aggregate		
Revenue						
Billable Hours	3,233	525	35	560	3,793	
(x) Reimbursement Rate	\$65.90	<u>\$98.15</u>	<u>\$98.15</u>	\$98.1 <u>5</u>	<u>\$70.66</u>	
Gross Revenue	\$213,039	\$51,531	\$3,435	\$54,966	\$268,005	
Cost of Service						
Productivity	83%	63%	21%	56%	77%	
Hours Worked	3,919	840	168	1,008	4,927	
(x) Effective Rate	\$20.53	\$31.73	\$44.64	\$33.88	\$23.26	
Wages	\$80,461	\$26,653	\$7,500	\$34,153	\$114,614	
(+) Benefits/Taxes	\$16,092	\$6,663	\$1,875	\$8,538	\$24,630	
Labor Costs	\$96,553	\$33,316	\$9,375	\$42,691	\$139,244	
Gross Margin	\$116,486	\$18,215	-\$5,940	\$12,275	\$128,761	
	55%	35%	-173%	22%	48%	

Implication for profitability disaggregated

Impact from Improved Reimbursement Economics

	From	То	Gross Margin Impact		
	FIOIII	10	\$ '000s	%	
Supervisor	\$85.00	\$98.15	6.1	3%	
Behavior Technician	\$57.50	\$65.90	15.5	7%	

Impact from Increased Productivity

	From To		Gross Margin Impact		
	From	10	\$ '000s	%	
Supervisor	51%	63%	8.5	4%	
Behavior Technician	78%	83%	6.8	3%	

Impact from Increased Span of Control

	From To		Gross Margin Impact		
	From	10	\$ '000s	%	
Delivered Services Ratio	4.0	5.8	20.9	4%	
CD Pyramid	5.0	5.0	N/A	N/A	

Case Studies

Reimbursement – better to be lucky or good

- You could be a rare example of fantastic reimbursement rates. In which case congratulations (everyone hates you)
- More commonly, reimbursement will be modest, with rates ranging from reasonable to just not viable

Payer	Revenue (\$'000s)	Share of Revenue	Hours	Share of Hours	Average Reimbursement	Est Gross Margin
Payer 1	1,043.3	24%	9,945	15%	\$104.91	56%
Payer 2	1,417.9	33%	25,312	38%	\$56.02	18%
Payer 4	925.2	21%	17,361	26%	\$53.29	9%
Payer 6	557.7	13%	7,808	12%	\$71.42	34%
Payer 8	131.2	3%	2,358	4%	\$55.65	13%
Payer 9	248.8	6%	3,578	5%	\$69.54	32%
	4,324.1		66,363		\$65.16	



Share By Category							
1,849.8	43%	21,331	32%	\$86.72			
1,417.9	33%	25,312	38%	\$56.02			
1,056.5	24%	19,719	30%	\$53.57			

Reimbursement – tactical considerations

- There is still something to be done
- Of course, renegotiate. But success takes time and outcomes are uncertain
- You can still exert control by identifying the level of the less viable reimbursements your operations can tolerate

Impact From Shift in Hours - 5%			Impact From Shift in Hours - 10%			Impact From Shift in Hours - 15%		
Hours	Client	Revenue	Hours	Client	Revenue	Hours	Client	Revenue
3,318	8.0	\$287,739	6,636	16.1	\$575,478	9,954	24.1	\$863,217
(3,318)	(8.0)	-\$177,767	(6,636)	(16.1)	-\$355,533	(9,954)	(24.1)	-\$533,300
Gross Margin Im	pact	\$109,972			\$219,944			\$329,917
		2.5%			4.8%			7.1%

Supervisor productivity (and capacity)

- One clinical director, overseeing 6 supervisors
- Meeting 75% of billable expectations, and 63% of direct service oversight capacity

		Billable Expectations/	Min Direct Service	Bilable Expectations/	Min Direct Service
Job Title	FTE	Day	Oversight/Day	Month	Oversight/ Month
Clinical Director	1.0	3.0	15.0	63.0	315.0
Supervisor	1.0	5.0	25.0	105.0	525.0
Supervisor	1.0	5.0	25.0	105.0	525.0
Supervisor	1.0	5.0	25.0	105.0	525.0
Supervisor	1.0	5.0	25.0	105.0	525.0
Supervisor	1.0	5.0	25.0	105.0	525.0
Supervisor	1.0	5.0	25.0	105.0	525.0
	7.0	33.0	165.0	693.0	3,465.0
			Month Actual>	522.0	2,192.4
		А	ctual vs Expected>	75%	63%

Supervisor productivity (and capacity)

- Options increase supervisor billables, or reduce capacity
- Impact increasing supervisor billables: \$10.0K (@ direct service rates) a month; \$120K for the year
- Reduce capacity \$10.6 (excluding one-off costs); \$128K annually

Unit Economics - Increasing Supervisor Billables

	·		Supervision			
	Direct Services	Supervisors	Clinical Director	Aggregate	Total	
Revenue						
Billable Hours	2,192	480	42	522	2,714	
(x) Reimbursement Rate	\$58.43	<u>\$94.29</u>	\$94.29	\$94.29	\$65.33	
Gross Revenue	\$128,102	\$45,259	\$3,960	\$49,219	\$177,321	
Cost of Service - Payroll						
Productivity	78%	48%	25%	44%	68%	
Hours Worked	2,829	1,008	168	1,176	4,005	
(x) Effective Rate	\$20.15	\$34.06	\$45.65	\$35.72	\$24.72	
Wages	\$56,998	\$34,332	\$7,669	\$42,002	\$98,999	
(+) Benefits/Taxes	\$11,400	\$8,583	\$1,917	\$10,500	\$21,900	
Labor Costs	\$68,397	\$42,916	\$9,587	\$52,502	\$120,899	
Gross Margin	\$59,705	\$2,344	-\$5,626	-\$3,283	\$56,422	
	47%	5%	-142%	-7%	32%	

Optimal Supervisor Productivity									
	Direct								
	Services		Clinical		Total				
	Services	Supervisors	Director	Aggregate					
Revenue									
Billable Hours	2,192	630	63	693	2,885				
(x) Reimbursement Rate	\$58.43	<u>\$85.75</u>	\$82.34	<u>\$85.44</u>	\$64.92				
Gross Revenue	\$128,102	\$54,024	\$5,187	\$59,211	\$187,313				
Cost of Service									
Productivity	78%	63%	38%	59%	72%				
Hours Worked	2,829	1,008	168	1,176	4,005				
(x) Effective Rate	\$20.15	\$34.06	\$45.65	\$35.72	\$24.72				
Wages	\$56,998	\$34,332	\$7,669	\$42,002	\$98,999				
(+) Benefits/Taxes	\$11,400	\$8,583	\$1,917	\$10,500	\$21,900				
Labor Costs	\$68,397	\$42,916	\$9,587	\$52,502	\$120,899				
Gross Margin	\$59,705	\$11,108	-\$4,399	\$6,709	\$66,414				
	47%	21%	-85%	11%	35%				