

Understanding Your Costs in an Evolving Payment Environment

Session 2: Setting Up Your Internal Systems



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What We Have Discussed So Far...

Session 1: Cost Allocation: **Getting the Basics Right**

Today's Topic

Today we will discuss how to set up internal systems to capture critical data at the level of detail necessary to track and report costs.

Session 2: Preparing Internal Systems for Gathering Cost Data

Things To Consider For Capturing Costs:

- Systems capabilities
- Staffing
- Organizational commitment
- Defining your objectives

The Priorities

General Ledger/Chart of Accounts (COA)

- Expand the COA to capture all costs at a very detailed level
- Set up separate cost centers for all sites/departments/programs
- Ensure that the Accounts Payable module is set up to capture costs at the specified levels
- Develop reports for analysis

Chart of Accounts - Example

<u>Account Code</u>	<u>Account Title</u>	<u>Status</u>	<u>Designation Code</u>
1020	Cash-Petty	A	CCE
1021	Cash Petty Cash 2	A	CCE
1060	Cash- Sovereign - Operating	A	CCE
1061	Cash - Site Operations	A	CCE
1062	Cash - Pharmacy (Enterprise)	A	CCE
1065	Cash - Sovereign Payroll	A	CCE
1066	Cash - First Essex Health	A	CCE
1067	Cash Soverign Donations	A	CCE
1070	Cash Soverign Money Market	A	CCE
1080	Cash BDF CD	A	CCE
1090	Cash - Columbia Management	A	CCE
1100	Grant Rec - 330	A	ARO
1101	Grant Receivable - General	A	ARO
1102	Grant Rec HRSA IDS	A	ARO
1103	Accts. Rec - Voke School-Do Not Use	A	ARO
1104	Grant Rec. - HPHC-PCMH Grant	A	ARO
1105	Grant Rec. - NEMA	A	ARO

Chart of Accounts - Example

<u>Account</u>			<u>Designation</u>
<u>Code</u>	<u>Account Title</u>	<u>Status</u>	<u>Code</u>
1202	Accounts Receivable – Boston Medical Center	A	ARO
1203	Accounts Receivable – Celticare Health Plan	A	ARO
1204	Accounts Receivable – Fallon Community Health Plan	A	ARO
1205	Accts. Receivable-Tufts	A	ARO
1206	Accounts Receivable - Tufts	A	ARO
1207	Acct Rec Cigna	A	ARO
1208	Accounts Receivable - Celticare Health Plan	I	ARO
1209	Accounts Receivable - CWC	A	ARO
1210	Accts. Receivable- United Heal	A	ARO
1211	Accts. Rec- United Heal Medic	A	ARO
1212	Accounts Receivable – United Health Care	A	ARO
1215	Accts. Receivable- HMO Blue	A	ARO
1216	Accts. Rec- HMO Blue Medic	A	ARO
1218	Accounts Receivable - Fallon Comm. Health Plan	I	ARO
1220	Accts. Receivable- Blue Cross	A	ARO

Chart of Accounts - Example

<u>Account</u>			<u>Designation</u>
<u>Code</u>	<u>Account Title</u>	<u>Status</u>	<u>Code</u>
5000	Salaries	A	SAL
5001	Incentive	A	SAL
5050	Overtime	A	SAL
5100	Fringe Benefits FICA	A	PRT
5110	Fringe Benefits MUTA	A	PRT
5115	Fringe Benefits UHI	A	FRG
5120	Fringe Benefits Health Insurance	A	FRG
5125	Fringe Benefits Dental Insurance	A	FRG
5127	Fringe Benefits- Vision	A	FRG
5130	Fringe Benefits - Life & Disab	A	FRG
5140	Fringe Benefits - Work Comp	A	FRG
5142	Fringe Benefits- Learn/ED Inc.	A	FRG
5145	Fringe Benefit Pharm Emphy Dis	A	FRG
5148	Fringe Benefits ERISA	A	FRG
5149	Fringe Benefits Retirement	A	FRG
5210	Minor Equipment	A	PGS
5220	Office Supplies	A	PGS
5225	Family Planning Supplies	A	PGS
5230	Medical Supplies	A	PGS
5231	Vaccine Supplies	A	PGS

Sample Reporting Pyramid

Community Health Center

Haverhill Street	Program	Location	Grant	Cost Ctr
Hav. St. Admin.	101	11	999	600
Chase/Univ of Roch	101	11	320	999
DSRIP Statewide Investment Program	101	11	319	999
Hav. St. Facilities	101	11	999	700
Hav. St. Med.	101	11	999	100
Hav. St. Nursing	101	11	999	200
Hav. St. PSR	101	11	999	800
Hav. St. Soc. Serv.	101	11	999	300

Sample Reporting Pyramid

Community Health Center

Behavioral Health	Program	Location	Grant	Cost Ctr
Behavioral Health - Hav.St.	111	11	999	625
Behavioral Health - North	111	12	999	621
Behavioral Health - South	111	13	999	622
Behavioral Health - LHS	111	17	999	623
Behavioral Health - Voke	111	18	999	624
Behavioral Health - West	111	14	999	626
Behavioral Health - Methuen	111	25	999	628
HRSA - AIMS Grant	111	11	530	999
CVS Foundation NACH Grant	111	11	531	999
SUDMH - Behavioral Health	111	11	533	999

The Priorities, Continued

Electronic Health Record/Practice Mgmt.

- Ensure the EHR is set up to capture data for all service lines as set up in the GL
- Explore use of EHR miscellaneous fields to capture specified information
- Develop reports for analysis

Collection Rate Analysis - Example

Financial Class	Charges	Contractual Adjustment	Expected Amount	Payments	Denials	Net A/R
Blue Cross	\$3,126,080.00	(\$1,274,796.62)	\$1,851,296.78	(\$1,466,335.94)	(\$61,742.04)	\$323,205.40
Boston Medical Center	\$9,228,992.41	(\$2,030,530.12)	\$7,198,462.29	(\$6,663,049.95)	(\$88,438.65)	\$446,973.69
Celticare Health Plan	\$631,095.00	(\$189,567.51)	\$441,527.49	(\$422,797.67)	(\$4,424.03)	\$14,305.79
Children's Medical Security Plan	\$400,189.50	(\$116,869.59)	\$283,319.91	(\$207,517.64)	(\$13,682.34)	\$62,119.93
Commercial	\$753,252.50	(\$181,377.45)	\$571,875.05	(\$362,599.62)	(\$50,895.20)	\$158,380.23
Evercare	\$5,308,232.00	(\$2,852,924.41)	\$2,455,307.59	(\$2,467,498.65)	(\$12,155.68)	(\$24,346.74)
Fallon Community Health Plan	\$1,175,589.50	(\$637,156.85)	\$538,432.65	(\$424,629.95)	(\$30,519.71)	\$83,282.99
Harvard Pilgrim Healthcare	\$653,899.50	(\$190,676.14)	\$463,223.36	(\$406,240.62)	(\$6,235.89)	\$50,746.85
Health Safety Net Office	\$3,709,003.00	(\$542,217.06)	\$3,166,785.94	(\$2,856,170.88)	(\$121,112.54)	\$189,502.52
Masshealth	\$24,919,713.50	(\$6,995,804.22)	\$17,923,909.28	(\$15,051,345.61)	(\$2,339,054.51)	\$533,509.16
MassHealth - PCPR	\$5,496,170.00	(\$1,591,685.81)	\$3,904,484.19	(\$85,417.48)	(\$11,517.36)	\$3,807,549.35
Medicare	\$14,390,572.71	(\$7,981,129.47)	\$6,409,443.24	(\$6,030,094.26)	(\$152,796.21)	\$226,552.77
Motor Vehicle Accident	\$189,394.50	(\$18,460.24)	\$170,934.26	(\$101,569.50)	(\$48,508.00)	\$20,856.76
Neighborhood Health Plan	\$14,489,680.52	(\$2,996,105.97)	\$11,493,574.55	(\$11,063,283.37)	(\$155,214.32)	\$275,076.86
Network Health	\$96,989.50	(\$18,825.46)	\$78,164.04	(\$5,466.93)	\$0.00	\$72,697.11
Self Pay	\$1,208,668.50	(\$34,110.48)	\$1,174,558.02	(\$139,221.89)	(\$972.71)	\$1,034,363.42
Sliding Fee Scale	\$1,081,678.50	(\$1,027,886.87)	\$53,791.63	(\$9,795.38)	\$0.00	\$43,996.25
Tufts	\$543,972.50	(\$151,051.37)	\$392,921.13	(\$330,495.77)	(\$6,631.75)	\$55,793.61
United Health Care	\$544,064.00	(\$203,410.29)	\$340,653.71	(\$236,226.03)	(\$25,846.10)	\$78,581.58
Veterans	\$365.00	\$0.00	\$365.00	\$0.00	(\$365.00)	\$0.00
Workers Compensation	\$139,984.00	(\$50,118.91)	\$89,865.09	(\$40,345.38)	(\$18,848.35)	\$30,671.36
Grand Total	\$88,087,586.64	(\$29,084,704.84)	\$59,002,895.20	(\$48,370,102.52)	(\$3,148,960.39)	\$7,483,818.89

The Priorities, Continued...

Human Resource/Payroll System

- Ensure the system is set up to capture hours and salaries at the detailed level in GL
- Ensure that hours can be broken out by type
- Ensure that FTEs can be calculated by type of hours reported
- Ensure that “Head Count” can be determined
- Develop reports for analysis

Types of Hours*

- Regular hours
- Overtime hours
- Vacation hours
- Sick Time hours
- Personal hours

*Not all hours will be used in the analyses you are preparing

Provider FTE to Staff Ratios (Actual Hours Worked) – Example

	<u>FTE</u>	<u>Prov. FTE</u>	<u>Provider FTE to Staff Ratio</u>			
Haverhill Medical		6.90				
Hav St GYN & Proc		0.26				
Residency Medical		7.41				
Sports - Hav		0.17				
Hav Acutes		1.97			Target	Diff.
Haverhill Nursing	15.16				8.36	6.80
Haverhill MA	23.11				25.07	-1.96
Haverhill PSR	9.23				8.36	0.87
	47.50	16.71	2.84		41.78	5.72

Statistical Dashboard - Example

as of March 31, 2018

Total Employee Count	608
Total FTE's	563.2

Total Visits	247,006
Total Prescriptions Filled	575,886
Total Revenue	65,020,881

Division	Employee Count	% of total EE count	FTE	% of total FTE
ACO	8	1.3%	8.0	1.4%
Central Admin (Executives & AA's)	8	1.3%	8.0	1.4%
Clinical & Medical Administration	99	16.3%	79.7	14.2%
Community Support Services	28	4.6%	27.6	4.9%
Development	5	0.8%	5.0	0.9%
Facilities	8	1.3%	8.0	1.4%
Finance/Patient Accounts	24	3.9%	24.0	4.3%
Human Resources/Training	12	2.0%	11.5	2.0%
Information Systems/HIM	37	6.1%	37.0	6.6%
Operations	244	40.1%	235.0	41.7%
Pharmacy	86	14.1%	72.8	12.9%
Compliance & Legal	2	0.3%	1.6	0.3%
Residency & Residency Administration	47	7.7%	44.9	8.0%
Total	608		563.2	

Total Compensation	% of Total	Other Expenses	% of Total Other Expenses	Total Overall %
2,118,616	4.5%	1,855,026	10.7%	6.1%
1,552,706	3.3%	713,075	4.1%	3.5%
14,606,045	30.7%	3,771,460	21.7%	28.3%
1,286,578	2.7%	492,737	2.8%	2.7%
393,886	0.8%	271,138	1.6%	1.0%
1,075,755	2.3%	3,760,626	21.7%	7.5%
1,449,462	3.0%	2,017,773	11.6%	5.3%
805,760	1.7%	474,953	2.7%	2.0%
1,867,151	3.9%	1,565,395	9.0%	5.3%
12,811,265	26.9%	1,052,219	6.1%	21.4%
5,713,614	12.0%	1,279,546	7.4%	10.8%
170,311	0.4%	13,072	0.1%	0.3%
3,707,091	7.8%	90,926	0.5%	5.9%
47,558,242	73.3%	17,357,946	26.7%	

Income Statement - Summary

RESULTS - Total (YTD)

Patient Visits

Total Visits

Total Deliveries

Total Pharmacy RX's

Dec-YTD Actual	Dec-YTD Budget	Variance
126,518	128,731	(2,213)
415	411	4
281,795	276,266	5,529

Revenue and Expenses

Operating Revenue

Net Patient Service Revenue

Grant and Contract Revenue

Other Revenue

Pharmacy Revenue

Total Operating Revenue

Revenue Per Visit

\$18,313,155	\$18,854,932	\$(541,777)
\$5,563,498	\$5,403,370	\$160,128
\$1,745,961	\$341,353	\$1,404,608
\$6,625,750	\$5,699,874	\$925,876
\$32,248,364	\$30,299,529	\$1,948,835
\$255	\$235	\$20

Operating Expenses - Summary

	Dec-YTD Actual	Dec-YTD Budget	Variance
Salaries	\$19,645,007	\$19,501,417	\$143,590
Fringe Benefits	3,446,914	3,613,991	(167,077)
Supplies	1,242,182	1,324,959	(82,777)
Sub-Contracts - Patient Service	302,761	324,659	(21,898)
Other Purchased Services	976,767	906,710	70,057
Facility Operation and Maintenance	1,773,077	1,718,820	54,257
Insurance	64,468	67,493	(3,025)
Travel and Training	315,296	282,539	32,757
Other	1,787,617	1,832,188	(44,571)
Total Operating Expenses	\$29,554,089	\$29,572,776	\$(18,687)
Subtotal Before Allocations	\$2,694,275	\$726,753	\$1,967,522
Total Expenses Per Visit	\$234	\$230	\$4
Net Surplus/(Deficit)	\$2,694,275	\$726,753	\$1,967,522
Net Surplus/(Deficit) Per Visit	\$21	\$6	\$16

Sample Income Statement - Detail

Patient Revenue	Current Period Actual	Current Period Budget \$ - Original	Current Period Budget \$ - Variance - Original	Current Year Actual	YTD Budget - Original	YTD Budget Variance - Original
Health Safety Net	97,319	241,783	(144,465)	186,598	451,757	(265,159)
Medicaid MMC Rev	463,500	654,675	(191,175)	801,022	1,220,224	(419,202)
My Care Family-ACO	1,348,234	518,940	829,294	2,484,073	965,758	1,518,315
Network Health	(3,564)	7,396	(10,959)	(2,571)	13,473	(16,045)
Tufts Revenue	12,556	22,392	(9,836)	24,273	41,788	(17,515)
Blue Cross	114,282	93,729	20,553	224,802	174,867	49,936
Worker's Comp	14,456	11,980	2,477	31,348	22,403	8,945
Commercial Revenue	35,131	24,218	10,913	80,360	45,154	35,206
NHP Revenue	19,648	589,652	(570,004)	31,824	1,097,450	(1,065,626)
Medicare Revenue	332,154	388,985	(56,831)	679,123	727,323	(48,200)
Uninsured Revenue	68,196	47,870	20,325	123,657	88,924	34,733
Boston Medical Center	197,570	346,607	(149,036)	407,542	646,644	(239,102)
Celticare Health Plan	139	25,803	(25,664)	139	48,265	(48,126)
Fallon Comm. Health Plan	5,730	23,208	(17,477)	7,942	43,338	(35,396)
Harvard Pilgrim Healthcare	20,018	29,991	(9,974)	45,748	55,962	(10,214)
United Health Care	<u>161,122</u>	<u>152,884</u>	<u>8,238</u>	<u>316,445</u>	<u>285,600</u>	<u>30,844</u>
Total Patient Revenue	2,886,490	3,180,112	(293,622)	5,442,324	5,928,931	(486,607)

Sample Income Statement - Detail

Expenditures	Current Period Actual	Current Period Budget \$ - Original	Current Period Budget \$ Variance - Original	Current Year Actual	YTD Budget - Original	YTD Budget Variance -Original
Personnel Expenses						
Salaries	3,318,944	3,518,996	200,053	6,802,686	7,037,993	235,307
Overtime	68,839	28,092	(40,746)	120,299	56,185	(64,115)
Fringe Benefits	653,150	680,686	27,536	1,274,902	1,361,373	86,471
Total Personnel Expenses	4,040,932	4,227,775	186,843	8,197,887	8,455,550	257,664
Supplies						
Minor Equipment	325	2,366	2,041	6,924	4,929	(1,995)
Office Supplies	14,918	8,404	(6,514)	25,337	16,396	(8,941)
Family Planning Supplies	22,581	10,686	(11,895)	45,316	23,802	(21,514)
Medical Supplies	32,994	31,044	(1,951)	57,608	60,984	3,376
Vaccine Supplies	193,145	82,278	(110,867)	220,762	130,566	(90,196)
Maintenance\Cleaning Supplies	3,482	1,995	(1,487)	7,267	3,265	(4,002)
MIS Equipment	64,508	1,467	(63,041)	65,780	5,471	(60,309)
Pharmacy Supplies	(1,237)	21,184	22,422	22,565	40,310	17,745
Program Supplies	5,290	2,622	(2,669)	9,194	6,310	(2,884)
Total Supplies	336,005	162,046	(173,959)	460,754	292,034	(168,720)

Basis for Allocating Enabling and Overhead Costs - Example

Cost Category	Visits by Site*	SF	% of Expenses	Notes
Social Services / Enabling	X			Non-grant supported costs spread as overhead
Medical Records	X			
Site Administration	X			
Site Operations	X			
Patient Billing	X			
Call Center	X			
Referrals	X			
Facility Overhead		X		By department or service
Central Administration			X	Includes security, finance, development, information systems, human resources, medical administration

* Visits as reported in the monthly visit summary, by site

Cost Per Visit Summary

All Sites Consolidated Example

	Per Visit	Per Patient
Total Visits / Patients	84,752	68,829
Total Cost - Direct Provider	\$46	\$57
Total Cost - Direct Medical Support Staff Expenses	\$49	\$60
Total Cost - Direct Enabling Expenses	\$2	\$2
Total Cost - Site Overhead Expenses	\$22	\$27
Total Cost Non Medical and Administrative	\$42	\$52
Total Cost	\$161	\$198

Cost Per Visit Detail

Direct Provider Costs

	All Sites
Total Visits	84,752

Direct Provider Costs:	
Salary & Fringe Benefits	\$3,937,818
Total Direct Provider Costs	\$3,937,818
Total Direct Provider CPV	\$46

Direct Medical Support Staff Costs

Salary & Fringe Benefits	\$2,788,331
Direct Expenses	\$696,653
Call Center Allocation	\$460,703
Referrals Allocation	\$191,773
Total Direct Medical Support Staff Expenses	\$4,137,460
Total Direct Medical Support Staff Expenses CPV	\$49

Cost Per Visit Detail

Direct Enabling Costs:

Salary & Fringe Benefits	\$127,461
Total Direct Enabling Expenses	\$127,461
Total Direct Enabling Expenses CPV	\$1.50

Site Overhead Costs:

Salary & Fringe Benefits	\$721,178
Other Direct expenses	\$1,134,211
Total Site Overhead Expenses	\$1,855,389
Total Site Overhead Expenses CPV	\$22

Non-medical and Administrative Costs:

General Admin Allocations	\$2,816,080
Billing Allocation	\$464,052
Medical Administration	\$308,104
Total Non Medical and Administrative Expenses	\$3,588,236
Total Non Medical and Administrative CPV	\$42

Total Costs:

Total Provider, Direct Support Staff, Enabling and Overhead Expenses	\$13,646,364
Total Cost Per Visit	\$161

Suggested Reports

- **CFO**
 - Cash Activity Report - Daily
 - Third Party Collections – Daily
 - New Employee List – Weekly
 - Terminated Employee List – Weekly
 - Scheduled Vendor Payments Report – Weekly
 - Visits By Site/Program – Weekly
 - Total Head Count/FTE Report – Weekly
 - Total Clinical Hours Worked – Weekly

Note: Reports in green are suggested priorities

Suggested Reports

- **CFO (continued)**
 - Detailed Income Statements by Site/Dept/Program - Monthly
 - Third Party Accounts Receivable Aging Analysis – Monthly
 - Detailed Third Party Denials Report – Monthly
 - Total Third Party Collections Report – Monthly
 - Statistical Summary Report – Monthly
 - Cost Per Visit/Patient Report - Monthly

Note: Reports in green are suggested priorities

Suggested Reports

- **CFO (continued)**
 - Grant/Contract Award Summary – Monthly
 - Pharmacy Scripts Filled – Monthly
 - Pharmacy Margin Report - Monthly

Note: Reports in green are suggested priorities

Suggested Reports

- **Director of Finance**

- General Ledger Journal Entry Report - Daily
- Cash Receipts/Disbursements Report - Daily
- Accounts Payable Edits - Daily
- Total Payroll Edit - Weekly
- Accounts Payable Aging Report - Weekly
- Income Statements by Site/Dept/Program - Monthly

- **Director of Patients Accounts**

- Third Party Payer Accounts Worked – Daily
- Third Party Collections - Daily

Note: Reports in green are suggested priorities

Suggested Reports

- **Director of Patient Accounts (continued)**
 - Third Party Claims Submitted Report – Weekly
 - Total Visits by Site/Program/Dept – Weekly
 - **Denials by Reason/Payer Report – Monthly**

Note: Reports in **green** are suggested priorities

Obstacles – Real and Perceived

- We don't have the staff or time
- We don't have the systems
- We don't capture costs at a very detailed level
- We don't see a real value or return on our investment

Approaches to Overcoming Obstacles

- Outsourcing some of the work to vendor partners
- Use temps or other consultants at key points
- Provide protected time for the team to do the work
- Develop a realistic plan and stick to it!
- Look for grants that might support these efforts

Things To Consider

- How do we find the appropriate balance between “perfect” and “good” as we develop internal systems?
- What reports/tools/metrics will we need?
- How will we teach our people the value and use of the reports and metrics?
- What specific training will our finance and patient accounts people need?

Sneak Peak - Session 3: Cost Allocation

Methodology for Value-Based Payment Systems

Compared to a FFS-only reimbursement system, several new wrinkles are introduced here:

1. What is a Value-based Payment System?

- The definition may depend on your perspective (\$ cost or outcomes or both?) – likely Multi-Layered

2. How do we achieve those outcomes?

- Distinguish between acute and chronic care
- Develop Clinical Pathways

3. How do we account for the costs of achieving those outcomes?

- Theoretically: Time Driven Activity-Based Costing (TDABC)
- Practically: A simpler system based on TDABC principles

Thank you

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