How to do a Cost Analysis and Use the Results

Presented by:



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Federal Funding Cuts

Division of HIV/AIDS Prevention

- Between 2007 and 2012, HIV prevention funding decreased
- 39 jurisdictions receiving less funding

Division of STD Prevention

 Between 2003 and 2014, funding for STD clinical services decreased 36% (adjusted for inflation)

Nastad: National HIV Prevention Inventory

Gail Bolan, Director of the Centers for Disease Control and Prevention (CDC), Division of STD Prevention (DSTDP), recently stated at the National Coalition of STD Directors (NCSD) Annual Meeting

State Program Cuts

Table 2. Number and Percentage of SHAs with Program Cuts Since July 2008 by Program Area (N=55)

	Number with Program Cuts	As % of the Whole
Public health hospitals and clinics	26	47%
HIV, AIDS, and STDs	25	45%
Disease-specific programs (ALS, Alzheimer's, Arthritis, Asthma, Cystic Fibrosis, Epilepsy, Genetic Disorders, Hepatitis C, Infectious Diseases, Osteoporosis, Parkinson's, PKU, Renal Diseases, Sickle Cell, Tuberculosis, Valley Fever)	22	40%
Family health and nutrition (including WIC)	22	40%
Maternal and child health programs	20	36%
Prevention programs	18	33%
Tobacco prevention and control	17	31%
Immunization	17	31%
Children with special healthcare needs	17	31%
Family planning services	16	27%



The Association of State and Territorial Health Officials, Budget Cuts Continue to Affect the Health of Americans, <u>http://www.astho.org/Research/State-Health-Agency-Budget-Cuts/</u>, Update October 2013

Uninsured Population Exceeds Safety Net Funds

Although decreases are expected, a substantial need will continue to exist for safety net STD prevention services over the next 10 years

The cost exceeds the current DSTDP Budget





Learning Objectives

- 1. Be familiar with the steps for completing a program level and service level cost analysis
- 2. Understand how to use the results of the cost analysis
- 3. Be able to identify data sources needed to complete revenue projections





POLL

1. Have you conducted or participated in a cost analysis in the past two (2) years?

Yes







Cost Analysis



What is the Purpose of Conducting a Cost Analysis?

- Increases understanding of how to use funds
- Helps determine which services to focus on
- Helps set charges/fees
- Assists in negotiating charges with various payers





Benefits of a Cost Analysis

- Develop, implement, and analyze efficiency
- Control costs
- Project incremental costs
- Financial viability
- Successful contract management





Cost Analysis Tools

Program Cost Analysis (PCA) Tool

Unit Cost Analysis Tool

Staff Time Allocation Tool





Steps for Completing a Cost Analysis



2. Gather financial data

3. Enter data into cost analysis tool

4. Use data for decision making

Program Cost Analysis (PCA) Tool

Assists in determining costs for a specific program or department compared to all agency costs

Good for budgeting, strategic planning, and advocacy





Program Cost Analysis Tool

Organization Name: Time Frame For Data:

Note: Enter data in the yellow areas only, the green areas will calculate automatically.

		Assembling HIV prevention program costs						
(A)	Total Organization Costs (B)	Direct program costs (C)	Indirect program costs (D)	In-Kind contributions for program costs (E)	Total program cost (F)			
A. ADMINISTRATIVE:								
1. Executive Director/CEO					\$ -			
2. Administrator/COO					\$ -			
3. Administrative Support					\$			
4. Finance Director/CFO					\$.			
5. Fiscal Support					\$.			
6. Medical Director					\$.			
7. Public Relations/Marketing				T	\$.			
8. Legal					\$.			
9. Data Processing					\$.			
10. Staff Travel					\$.			
11. Telephone					\$.			
12. Postage					\$.			
13. Operating Interest					\$ -			
14. In Service & Staff Education		-			\$.			
15. Office Supplies					\$ -			
16-22. Other Allowable Admin. Exp. (specify below):								
					\$.			
					\$ -			
					\$.			
					\$.			
					\$.			
					\$.			
					\$.			
TOTAL ADMINISTRATIVE	\$	- \$.	- \$ -	\$ -	\$.			

Components of PCA

- Administrative
- Patient Transportation
- Medical
- Laboratory
- Pharmacy
- Other Health Services
- Other Non-direct Health Services
- Employee Health and Welfare
- Facility Costs





PCA Example



Program Cost Analysis Tool

Organization Name: HD in Smith County

Time Frame For Data: January - December 2014

Note: Enter data in the yellow areas only, the green areas will calculate automatically.

			Assembling STD testing program costs							
(A)	Tota	l Organization Costs (B)	Direct p cos (C	rogram sts :)	Indirect program costs (D)	m In-Kin for p	d contributions program costs (E)	Total	program cost (F)	Notes
A. ADMINISTRATIVE:										
1. Executive Director/CEO								\$	-	
2. Administrator/COO								\$	-	
3. Administrative Support								\$	-	
4. Finance Director/CFO		\$75,000.00			\$22,500.0	00		\$	22,500.00	
5. Fiscal Support								\$	-	
6. Medical Director		\$155,000.00	\$23	3,250.00				\$	23,250.00	
7. Public Relations/Marketing								\$	-	
8. Legal								\$	-	
9. Data Processing								\$	-	
10. Staff Travel		\$12,000.00	Ś5	5,000.00				\$	5,000.00	
11. Telephone			ſ					\$	-	
12. Postage								\$	-	
13. Operating Interest								\$	-	
14. In Service & Staff Education								\$	-	
15. Office Supplies		\$2,000.00			\$600.0	00		\$	600.00	
TOTAL ADMINISTRATIVE	\$	244,000.00	\$ 28	3,250.00	\$ 23,100.0	00 \$	-	\$	51,350.00	

PCA Example (cont.)



Program Cost Analysis Tool

Organization Name:

HD in Smith County

January - December 2014 Time Frame For Data:

Note: Enter data in the yellow areas only, the green areas will calculate automatically.

		Assembling STD testing program costs					
(A)	Total Organization Costs (B)	Direct program costs (C)	Indirect program costs (D)	In-Kind contributions for program costs (E)	Total program cost (F)	Notes	
A. ADMINISTRATIVE:							
7. Gas					\$ -		
8. Electric					\$-		
9. Water					\$-		
10-13 Other Allowable Exp.(specify below):							
					\$-		
					\$-		
					\$-		
					\$-		
TOTAL FACILITY COSTS	\$-	\$-	\$ -	\$ -	\$ -		
TOTAL COSTS	\$ 244,000.00	\$ 28,250.00	\$ 23,100.00	\$-	\$ 51,350.00		

TOTAL OUTSIDE LAB COSTS

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Unit Cost Analysis Tool

The cost of services is determined by the expenses and utilization

Considers all of the resources associated with a particular service and calculates how much it costs







Unit Cost Analysis Tool

This tool has been tailored from cost analysis tool develop by the American Academy of Family Physicians (www.aafp.org/fpm)

Organization Name:

Time Frame For Data:

Note: Do not enter data in the green areas, they will calculate automatically.

STEPS	NOTES	UNIT COST	IN-KIND CONTRIBUTIONS	UNIT COST with IN- KIND	COMMENTS
1. Define the unit of service:			N/A	N/A	
2. Determine the number of units of service provided in			N1/A	N1/A	
the defined time period:			N/A	N/A	
3. Calculate the direct costs:					
Staff Cost:				\$-	
Management Cost:				\$-	
				\$ -	
				\$-	
				\$-	
HIV Tests:	Per supply catalog			\$-	
Laboratory Services:	Per typical charges			\$-	
Other:				\$-	
TOTAL direct costs per unit of service:		\$ -	\$ -	\$ -	
4. Calculate indirect costs:					
Rent, utilities, etc.:				\$-	
Administrative salaries and benefits::				\$-	
Insurance:				\$-	
Other:				\$-	
TOTAL:		\$ -	\$ -	\$-	
Basis of Allocation:			N/A		
Allocation rate:	Percentage		176	0.00	
Number of units of service provided:	From Step 2 above	0.00	N/A	0.00	
Total indirect costs per unit of service		#DIV/0!		#DIV/0!	
5. Calculate depreciation					
Initial cost of equipment associated with the service:				\$-	
Resale value at the end of its useful life:				\$-	
TOTAL:		\$ -	\$ -	\$-	
Estimated years the practice will use the equipment:				0.00	
Basis of Allocation:					
Allocation rate:	Percentage		N/A	0.00	

Unit Cost Analysis Steps

- <u>Step 1:</u> Define the unit of service
- <u>Step 2</u>: Determine the number of units of service provided
- <u>Step 3:</u> Calculate the direct costs
- <u>Step 4:</u> Calculate the indirect costs
- <u>Step 5:</u> Calculate the unit cost







- What service do you want to focus on?
- How do you define a unit of this service?
- How can you "pull" the information?
- How do others define it?





Practice Management System



☆Audit







- Very important to unit cost analysis
- Largest cost: Staff Time
 - Use staff time allocation tool
- Other cost information





Common bases for allocation include:

- Ratio of selected service to all services
- % of total revenue attributed to the service
- % of practice square-footage devoted to the service
- % of total direct costs attributed to the service





Direct costs per unit + Indirect costs per unit = Total Cost per Unit of Service





Unit Cost Analysis Example



Staff Time Allocation Matrix

→ This tool is to compile time spent on selected activities to calculate direct costs in the Unit Cost Analysis tool. You can change, add or delete activities as needed to tailor this tool to your specific agency needs.

→ Use average times for each activity. Use a time study tool to determine time per activity that have greater variation, such as outreach, training, and condom distribution. Only select staff that are related to the activity, leave other cells blank.

Enter Estimated Minutes Per One Unit of the Activity (e.g., providing one STD test)

-> Only select staff that are related to the activity, leave other cells blank. Add staff roles that are not included in the list below as needed.

→ Fill out to the best of your knowledge

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ŤU,	⁶⁸¹¹ 0	STD CILL	STD T.	Training Street	ducation 18 r	18 T.	Innum:	offer.	4 ciling
/					/	/	/		/
0	0	0	0	0	0	0	0	0	

Interpreting Cost Analysis Results

- If applicable, compare to what you are currently billing or budgeting for services provided
- Compare unit costs of services provided
- Are you making a loss or profit?
- Can you afford to continue offering the same set of services?



Review Market Rates

- What are the fees for comparable services in your area?
- Are you competitive?
- Do you offer more than, the same, or fewer services as other providers?
- What "discounts" are you offering and when?



Use the Cost Analysis Results

Are there ways to reduce program costs?

- Are there specific indirect or direct costs that are driving your program costs up?
- Partnerships? To reduce costs by sharing space, clinician time, staff time, or electronic medical record licenses.
- Does a free EMR make sense?









Information to Estimate Revenue from Third-party Payers *Required:

- Payer mix of clinic's population
- Number of annual visits provided by E&M Code

Nice to have if already billing:

- Denial rates
- Deductions for co-pays not collected
- Deductions for self-pays not collected
- Average self-pay charge based on sliding-fee scale



Estimating Payer Mix

Survey patient population for 30 days and ask patients what type of insurance they have

- Medicaid
- Medicaid Managed Care
- Private insurance
- Self-pay

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Note: This survey is available: stdtac.org/files/2014/06/Survey-No-Billing_STDTAC.doc

STD Clinic Example – Revenue Projections

- Medicaid 30%
- Medicaid Managed Care 0%
- Private payers 10%
- Uninsured 60%



Insurance Coverage Estimates			00	Estimating	Denials, collections and Dec	luctions	
Estimated percent of current services that will be billed to <u>Nedicaid.</u>	30%	Estimated net collections from pro (This estimate will be compared to on the Est. Revenue Projectio	evious year projections ns tab.)			Denial Rate for Medicaid	7%
Stimated percent of current services that will be billed to <u>Medicaid Managed Care</u> Plans*** Jse this column only if Medicaid Managed Care reimburses at a higher rate than Medicaid.	0%	Estimated Net Collections		De en Su es	e nials : If known, iter denial rate. Iggested itimate: 7%	Denial Rate for Private Insurance	7%
Estimated percent of current services that will be billed to Private Insurance. Private Insurance generally reimburses at 100% of Medicare lee schedule.)	10%	Other Payer Information				Denial Rate for Medicaid Managed Care (If you do not separate Medicaid and Medicaid Managed Care Services, leave blank)	
stimated percent of self pay-clients	60%	If the clinic has a flat fee for self-pay services, enter it in cell E9. If you have a sliding fee scale for self-pay, enter the average payment you receive for self-pay services.	\$15.00	De pa no Su is :	eductions for co- iys deductibles it collected**** iggested estimate 33%	Percent of deductibles <u>not</u> collected (Example: If your clinic has 67% collection rate for co-pays and deductibles, enter 33%)	33%
Sum of all visits. (This does not have to add to 100% if you do not vlan to bill all payer types in the next year.)	100%	If you have negotiated a higher rate for Medicaid Managed Care as a percentage of Medicaid enter it in cell E10 Example: If you negotiated Medicaid Managed Care to pay 10% more than Medicaid rates, enter 110%		De pa Su 33	eductions for self- ly not collected; lggested estimate 1%	Percent of self-pay fees <u>not</u> collected (Example: If your clinic has 67% collection rate of self-pay fees, enter 33%)	33%
				Aci clie fro Me	counting for ents that move om self-pay to edicaid	Percent of Medicaid Clients that Previously Self Paid	

Estimating Annual Visits by E&M Code

If provide clinical services but don't bill:

- Determine total number of annual visits
- Pull 30 random clinic charts
- Match services to appropriate E&M level
- Use the distribution of E&M levels as an estimate for the following year

If already billing:

Use previous year's E&M code distribution



Available at: http://stdtac.org/files/2014/06/Levels-of-Services_STDTAC.pdf

LEVELS OF SERVICES WORKSHEET - E&M: NEW PATIENT OFFICE VISIT

Code	History	Exam	Medical Decision Making (MDM)	Time			
New Patient* Office Visits: History, Exam and MDM must be met. Code based on the score of the lowest element.							
99201	Problem Focused 1-3 HPI No ROS No PFSH	Problem Focused <1 BA/OS	Straightforward	10 Minutes			
99202	Expanded Problem Focused 1-3 HPI 1 ROS No PFSH	Expanded Problem Focused 2-4 BA/OS	Straightforward	20 minutes			
99203	Detailed 4 HPI 2-9 ROS 1PFSH	Detailed 5-7 BA/OS	Low Complexity	30 minutes			
99204	Comprehensive 4 HPI 10 ROS 3 PFSH	Comprehensive 8 Organ Systems	Moderate Complexity New Problem w/ RX Acute Complicated Illness/ Injury Undx'd, New Problem 1 or more chronic Illness w/ mild exacerbation	45 minutes			
99205	Comprehensive 4 HPI 10 ROS 3 PFSH	Comprehensive 8 Organ Systems	High Complexity New Problem with work up planned and high level of acuity	60 minutes			

STD Clinic Example – Revenue Projections

- Clinic's client volume 600 annual visits from January 1-December 31, 2015.
- Based on chart extraction they had the following service distribution:

New Patients:

99201- 4% (25) 99202-17% (100) 99203- 17% (100) 99204 -4% (25) 99205- 0

Established Patients:

99211- 4% (25) 99212- 25% (150) 99213- 25% (150) 99214 -4% (25) 99215-0



Tab 2B - Estimated Revenue Projections Worksheet - See expanded instruc

nstructions: If users have state-specific Medicaid, Medicaid Managed Care, Private Insurance or Indestimates entered in Column D of this Tab 2B:Estimated Revenue Projections Worksheet.

	Estimated Unit Count (Calendar Year)		
valuation and Managemen	it Codes		
	Problem Focused- Straightforward	99201	25
New patient office visit	Expanded Problem Focused- Straightforward	99202	100
	Detailed-Low Complexity	99203	100
	Comprehensive-Moderate Complexity	99204	25
	Comprehensive- High	99205	0
	Follow-up (presenting problems minimal)	99211	25
	Problem Focused-	99212	150
visit	Expanded Problem Focused- Low Complexity	99213	150
	Detailed-Moderate Complexity	99214	25
	Complexity	99215	l l l l l l l l l l l l l l l l l l l
Subtotal: Evaluation and Ma	nagement Codes		600

\$18,180

	Calculating Estimated N			
		Estimated Percent of Fees Paid by Private Insurance (70:	\$3,095.58	
		Estimated Percent of Fees Paid by Individual (30%)	\$1,326.68	
		Denial Rate for Medicaid	7%.	\$ (585.06)
	Denials : If known, enter denial	Denial Rate for Private Insurance	7%.	\$ (309.56)
o them, whether your clinic plans to nual exam.	rate, ouggested estimate. 12.	Denial Rate for Medicaid Managed Care	0%	\$ -
	Deductions for self -pay fees not collected. Suggested estimate 33% Suggested estimate is 33%	Percent of self-pay fees not collected	33%	\$ (1,782.00)
	Deductions for co-pays deductibles not collected ^{****} Suggested estimate is 33%	Percent of deductibles not collected (Example: If your clinic has 67% collection rate for co-pays and deductibles, enter 33%)	33%	\$ (437.80)
	Accounting for clients that move	Percent of Medicaid Clients that Previously Self Paid	0%	
	from self-pay to Medicaid	Flat fee for clients with no insurance or average fee for clients with no insurance (Entered on Ins Coverage Est Worksheet)	\$ 15.00	* -
	Estimated <u>net collections</u>	\$15,066		
	Esti	\$0		
	Expected Ad	\$1 5,066		

Use Cost Analysis with Revenue Projections

- Are there ways to increase revenue?
 - Streamline clinic flow so billable clinician sees more patients
 - Evaluate the staffing mix- are you maximizing billable hours?
 - Increase annual visits (outreach, referral agreements)



Resources

Go to stdtac.org to access the billing toolkit and request training and technical assistance



With the passage of the Patient Protection and Affordable Care Act (ACA), participation in third-party billing is increasingly important. Many previously uninsured Americans will have access to health insurance coverage. Traditional safety net providers, such as STD clinics, which have historically provided free or low-cost services through public funding, are facing fiscal challenges through a decrease in public health STD funds. Implementing or expanding third-party billing is a way to diversify revenue streams, ensure access to care, and potentially expand services to populations who need them the most.

This toolkit is designed to help publicly-funded STD clinics and public health laboratories make decisions about whether to bill, and how to develop billing systems, manage revenue cycles, initiate contracts, and enhance coding capacity. Modules are organized by topic and may be used sequentially or individually. *Acknowledgements





Resources

- View a recording of billing webinars including the previous cost analysis webinar and one on Setting Fees at: <u>http://cba.jsi.com/resources/billingresources/</u>
- Join us for ICD-10 Coding for STD Services with Lissa Singer: <u>Wednesday</u>, February 24th <u>https://jsi.webex.com/jsi/onstage/g.php?MTID=eb88a9fa218292e4c943f2a40b177f077</u>
- Request technical assistance (TA) at stdtac.org
- If you are a CBO providing HIV services, request TA from CBA@JSI: http://cba.jsi.com/request-cba/



Questions?

or

1. Click the "raised hand" button next to your name and we will unmute you







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For more information, visit <u>stdtac.org and cba.jsi.com</u>.