TEAM-HF Costing Tool: Examples and Recommendations

This document provides guidance and tips to complete the Costing Tool for various resource use categories for the scenarios described below.

1. E-monitoring	Example : Assume that a RN monitors 100 patients electronically. Each week, the RN contacts approximately 10 patients by phone. On average, the RN spends a total of 10 hours per week, with 5 hours spent on E-monitoring activities and the remaining 5 hours spent on the phone with patients (i.e., 30 minutes, on average, per patient contact).						
Personnel	We <u>recommend</u> that you use the "Top-Down" approach to estimate personnel						
	 We <u>recommend</u> that you use the "Top-Down" approach to estimate personnel costs. Using the "Personnel costs (top-down)" worksheet, in the row representing 'Registered Nurse': Enter '5' in the 'Hours per week spent in contact with patients for each provider/personnel (by phone, face-to-face)' column (i.e., 5 hours spent on the phone, computed as [30 minutes per patient contact x 10 patients]/60). Enter '5' in the 'Hours per week spent on other (non-research) activities associated with the program' column (i.e., 5 hours spent on electronic monitoring for 100 patients). Enter '0' in the 'Hours per week spent on research activities associated with the program' column. Enter '1' in the 'Number of each type of personnel' column. 						
		Hours per week spent in contact					
		with patients for each provider/	(non-research activities		spent on research activities	Number of	
	Type of Personnel	personnel (by phone, face-to-face)	associated with program	the	associated with the program	each ty persoi	
	Registered nurse	5	5		0	1	
Equipment	If software is used exclusively for remote/electronic monitoring, then account for its cost in the "Equipment Costs" worksheet. In a row representing 'Other' equipment, enter a description of the equipment: 'Software for DM Program'. Enter '1' in the 'Number needed' column. Enter '100%' in the 'Percentage used for the intervention' column.						
	Name or description of equipment		Number needed		Percentage used for t intervention	he	
	Binder						
	Other: Software for DM Program 1 100						
	Be sure to enter the cost for the software and period of time over which the software will be used in the 'Standardized Units' and/or 'Customized Units' Worksheets. In the corresponding row representing 'Other' equipment, enter a description of the equipment: 'Software for DM Program'.						
	 Enter \$10,000 (for example), representing the total cost of the software program in the 'Cost per unit' column. Enter '5' (for example) in the 'Years of usable life' column. 						

Equipment	Cost per unit	Source/Assumptions	Years of usable life	
Binder				
Other: Software for DM Program	\$10,000	Price paid to DM Software.	5	

2. DM programs with different types of encounters of varying lengths of time

Example: Assume that a RN has 30 face-to-face encounters with patients each week, with each encounter lasting an average of 30 minutes. The RN spends an additional 10 minutes for each encounter on related activities (e.g. documentation, refilling prescriptions, etc.). In addition, the RN has 10 encounters per week with patients over the phone, with each encounter lasting 10 minutes, on average. Assume that the RN does not spend additional time on related activities associated with the phone encounters.

Personnel

We <u>recommend</u> that you use the "**Bottom-up**" **approach** to estimate personnel costs. To account for costs associated with face-to-face encounters and phone encounters, use two separate rows to represent time for the RN.

Using the "Personnel costs (bottom-up)" worksheet, in the row representing 'Registered Nurse':

- Enter '30' in the 'Number of encounters with patients per week for each provider/personnel' column.
- Enter '30' in the 'Average duration per encounter' column.
- Enter '10' in the 'Average duration spent on non-face-to-face activities per encounter' column.
- Enter '0' in the 'Hours per week spent on research-related activities for each type of personnel' column.
- Enter '1' in the 'Number of each type of personnel' column.

In the same worksheet, in a row representing 'Other' personnel, enter 'Registered nurse'. Then,

- Enter '10' in the 'Number of encounters with patients per week for each provider/personnel' column.
- Enter '10' in the 'Average duration with patient per encounter' column.
- Enter '0' in the 'Average duration without patient per encounter' column.
- Enter '0' in the 'Hours per week spent on research-related activities for each type of personnel' column.
- Enter '1' in the 'Number of each type of personnel' column.

Type of Personnel	Number of encounters with patients per week for each provider/ personnel	Average duration with patient per encounter (in minutes)	Average duration without patient per encounter (in minutes)	Hours per week spent on research-related activities for each type of personnel	Number of each type of personn el
Registered Nurse	30	30	10	0	1
Other: Registered Nurse	10	10	0	0	1

Be sure to enter the annual salary and associated data for the RN in the 'Standardized Units' and/or 'Customized Units' Worksheets.

In the corresponding row representing 'Other' personnel, enter 'Registered nurse'.

Enter '\$70,000' (for example) in the 'Annual Salary' column. Enter '30%' (for example) in the 'Benefit and Fringe' column. Enter '48' (for example) in the 'Number of working weeks per year' column. Enter '40' (for example) in the 'Number of hours per week' column. Number of working Benefit and weeks per hours per Source/ Fringe (% of salary) year week **Annual Salary** Personnel **Assumptions** Other: Registered \$70,000 30% 40 Assumption 48 Nurse 3. Administration **Example:** Assume that a RN has 30 face-to-face encounters with patients each week, of medications and 20% of patients, on average, require intravenous furosemide. or other treatments Supplies and We **recommend** that you enter costs associated with medication or other Incentives treatments in the Supplies and Incentives Worksheet. Because medications are not provided as an option in the pre-populated rows, in a row representing 'Other' supplies, enter 'IV furosemide'. Then, Enter 0.2 (for 20%) in the 'Quantity per encounter' column for the set of rows representing supplies provided at each encounter. Be sure to enter total costs associated with the administration of furosemide (e.g. drug costs, IV tubing, etc.) in the corresponding cells in the 'Standardized Units'

Inputs			
Name or description of supplies	Quantity per encounter		
Other 1: Intravenous furosemide	0.2		

and/or 'Customized Units' Worksheets (Cell C66, C67, or C68).

Note that the computed cost in the 'Cost per encounter' columns will represent the total cost of treatment multiplied by the proportion receiving the treatment.