APPENDIX

Section 1. Tips on accessing and using the dental services consumer price index

Section 2. Logs to collect program-specific data

Section 3. Other costs that may be incurred by school sealant program

Section 4. Price of sealant stations and annuity factors (3% annual discount rate) to estimate annual cost of sealant station for different values of useful life

Section 5. Costs for different types of sealant materials

Section 1. Tips on accessing and using the dental services consumer price index

Go to BLS website (www.bls.gov) and select “Data Tools”. In the “Inflation and Prices” table, find “All Urban Consumers (Current Series)” and select the icon for “Multi-Screen Data Search”. User will next be presented with 6 different screens to create a customized data table.

Screen 1. Seasonal – select “Not Seasonally Adjusted” so you can obtain an annual   
 average and then click on “Next Form”.

Screen 2. Area – select “0000 US city average” and then click on “Next Form”.

Screen 3. Base – Select “Current” and then click on “Next Form”.

Screen 4. Item – Select “SEMC02 Dental Services” and then click on “Next Form”.

Screen 5. Periodicity – Select only option “Monthly” and then click on “Next Form”.

Screen 6. Series – Select “Series CUUR0000SEMCO2” and the click on “Retrieve Data”.

Once data is shown, the user can change output options to “include annual averages” and to show relevant years, then click on “Go”.

NOTE: The BLS is continuously estimating, revising, and disseminating economic data. As such, its website is very fluid, with data values as well as functionality changing frequently. Users may experience some variation in website functionality from that described above. Additionally, because BLS revises values for several months after initial release, recent CPI values obtained in one month may differ slightly from those obtained in a another month.

To convert dollars from the year in which they are quoted to another year’s dollars, multiply the quoted price/cost by the CPI for the year to which you are converting and divide by the CPI for the year in which the price/cost is quoted. For example, to convert the $1000 purchase price of a sealant station bought in 2007 to 2016 dollars, multiply 1000 by the value for the annual dental CPI in 2016 (465.039, but still subject to revision at the time of this writing) and divide by the 2007 annual dental CPI value (358.415).

Section 2. Logs to collect program specific cost data

Log 1. Daily[[1]](#footnote-1) Labor, Mileage, and Output for Service Delivery Activities

(1) Program Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
(2) School Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
(3) Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| (4) Number of program vehicles driven | (5) Mileage for trip to and from school |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Labor Category | Number of miles reimbursed (a) | Number of reimbursed travel hours (b) | Number of hours at school (c)[[2]](#footnote-2) |
| (6) Dentist |  |  |  |
| (7) Dental Hygienist |  |  |  |
| (8) Dental Assistant |  |  |  |
| (9) Other |  |  |  |

|  |
| --- |
| Service Delivered |
| (10) Number children screened |
| (11) Number children receiving fluoride varnish |
| (12) Number children receiving prophylaxis[[3]](#footnote-3) |
| (13) Number children receiving sealants |
| (14) Number of teeth receiving sealants |

Log 2. Administrative Costs per year

|  |  |
| --- | --- |
| Resource | Cost |
| Office supplies |  |
| Printing |  |
| Office rent |  |
| Office equipment (computer, phone, printer etc.) |  |
| Utilities |  |
| (Non-clinician) administrator salary, if applicable |  |
| Labor costs for clinicians performing administrative activities, (hours recorded per year)  [Item (f) in Log 2A] |  |
| Labor costs for clinicians performing administrative activities (hours recorded per school)  (from Log 2B)[[4]](#footnote-4) |  |
| Administrative mileage  [Item (d) from Log 2C below] |  |
| Other (Specify) |  |
| Other (Specify) |  |
| Other (Specify) |  |
| Other (Specify) |  |
| TOTAL ADMINISTRATIVE[[5]](#footnote-5) |  |

Log 2A. Labor costs for clinicians performing administrative activities (hours recorded per year)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Staff member[[6]](#footnote-6) | HOURS PER YEAR | | | | Hourly wage (e) | Labor  Cost  [= (d) \* (e)] |
| Outreach/ funding/ grant writing (a) | Staff Training (e.g., OSHA compliance, examiner calibration) (b) | Other (specify)  (c) | Total hours (d)  [=(a)+(b)+(c)] |
| Dental Hygienist |  |  |  |  |  |  |
| Dental Assistant |  |  |  |  |  |  |
| Dentist |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |
| TOTAL (f) | | | | | |  |

Log 2B. Labor costs for clinicians performing administrative activities (hours recorded per school)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Staff member[[7]](#footnote-7) | HOURS PER SCHOOL | | | | Hourly wage (e) | Labor  Cost  [= (d) \* (e)] |
| Distributing/managing consents (a) | Administrative follow-up (e.g. billing; data entry) (b) | Other (specify)  (c) | Total hours (d)  [=(a)+(b)+(c)] |
| Dental Hygienist |  |  |  |  |  |  |
| Dental Assistant |  |  |  |  |  |  |
| Dentist |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |
| Other |  |  |  |  |  |  |
| TOTAL (f) | | | | | |  |

Log 2C – Administrative mileage log[[8]](#footnote-8)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Administrative activity | Miles driven (a) | Reimbursement rate (b) | Cost (c)  [ = (a) \* (b)] |
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|  |  |  |  |  |
| TOTAL (d) | | | |  |

SECTION 3. Other Costs to Consider

|  |  |  |
| --- | --- | --- |
| EQUIPMENT | | |
| Item | Estimated cost | Frequency to Replace |
| Curing Light (3 year warranty) 8 mm curved light guide | $332.99 | As needed |
| Portable Light  120 V Halogen Bulb | $3.88 | As needed |
| Mf 2 Self Contained Unit Replacement Water Bottle | $13.00 | As needed |
| Mf 2 Self Contained Unit Replacement for air/water hoses | Tubing only $1.00  Cleanflex vacuum tubing 5/8”  $6.00 (saliva ejector)  Cleanflex vacuum tubing ½”  $3.00 (high suction) | As needed. |
| Portable Chair (Mf 1)  Replacement pin for chairs | $15.00 | As needed |
| Self-Contained Unit Saliva Ejector Replacement Tip | $6.00 | As needed |
| Mf 2 Self Contained Unit | Replace the entire saliva ejector and tubing  Saliva ejector hose assembly with lever control valve  $70.00 | As needed |
| Mf 2 Self Contained Unit Replace the high suction lever control valve | $51.00 | As needed |
| OTHER | | |
| Incentives to return consent forms |  |  |

SECTION 4. Estimating annual cost of durable good for different estimates of useful life

Table 1: Purchase Price for Components in Sealant Station (2016 US$)

|  |  |  |  |
| --- | --- | --- | --- |
| Manufacturer 1 | | Manufacturer 2 | |
| Description | Price | Description | Price |
| Express portable dental system | $3,964.75 | Portable sealant unit | $2,700.25 |
| Portable patient chair with case | $1,628.55 | Portable patient chair | $1,593.01 |
| Portable stool with case | $625.25 | Portable operator stool | $661.33 |
| LED portable light with case | $1,017.85 | Halogen light with floor stand | $1,162.17 |
| Portable tray stand | $702.26 | Metal tray with wheeled stand | $232.11 |
| Metal tray | $118.48 | Metal tray | $118.48 |
| LED curing light unit | $999.53 | Patient chair carrying case | $250.96 |
| Instrument/supplies case | $56.01 | Portable stool carrying case | $295.66 |
| Power cord and dolly | $70.01 | Carrying case for halogen light | $187.41 |
|  |  | Portable assistant stool | $812.12 |
|  |  | LED curing light unit | $999.53 |
|  |  | Instrument/supplies case | $56.01 |
|  |  | Power cord and dolly | $70.01 |

Table 2. Annuity factors for different values of useful life (3% discount rate)

|  |  |
| --- | --- |
| Useful life in years | Annuity Factor[[9]](#footnote-9) |
| 1 | 1 |
| 2 | 1.97 |
| 3 | 2.91 |
| 4 | 3.83 |
| 5 | 4.72 |
| 6 | 5.58 |
| 7 | 6.42 |
| 8 | 7.23 |
| 9 | 8.02 |
| 10 | 8.79 |
| 11 | 9.53 |
| 12 | 10.25 |
| 13 | 10.95 |
| 14 | 11.63 |
| 15 | 12.30 |

SECTION 5. Cost of various sealant materials, 2016 US$

|  |  |  |  |
| --- | --- | --- | --- |
| Sealant Material | Cost of Product $2016 | Applications per kit | Cost per tooth sealed |
| Material 1 - light cured resin | $70.01 | 140 | $0.50 |
| Material 2 - light-cured resin | $263.89 | 600 | $0.44 |
| Material 3 - light-cured resin | $123.86 | 165 | $0.75 |
| Material 4 - light-cured resin | $174.49 | 150 | $1.16 |
| Material 5 - light-cured, fluoride release resin | $138.94 | 200 | $0.69 |
| Material 6 - autopolymerized glass-ionomer | $254.19 | 150 | $1.69 |
| Material 7 - hydrophilic light-cured resin | $88.32 | 100 | $0.88 |

1. Complete one log for each day services are delivered. [↑](#footnote-ref-1)
2. If SSP uses reusable instruments, hours spent on sterilizing instruments offsite should be included in school hours. [↑](#footnote-ref-2)
3. Delivered with low-speed hand piece [↑](#footnote-ref-3)
4. Equals Log 2B, Item (f) multiplied by number of schools serviced, if one log was completed as representative of all schools; or, equals sum of (f) across all schools, if separate logs were kept for each school. [↑](#footnote-ref-4)
5. This is equivalent to the value for TOTAL ADMINISTRATIVE in the example in Table 4. [↑](#footnote-ref-5)
6. Add rows as necessary to include all clinical staff performing administrative tasks. [↑](#footnote-ref-6)
7. Add rows as necessary to include all clinical staff performing administrative tasks. [↑](#footnote-ref-7)
8. Complete one line each time either (1) a program vehicle is used for an administrative task, or (2) personnel perform administrative tasks with their personal vehicles ***and*** their mileage is reimbursed. Examples of administrative tasks include such things as dropping off or picking up consent forms at the printer, buying supplies at a brick-and-mortar store, and taking a piece of equipment to a repair shop for maintenance. Do NOT include mileage driven to and from schools for service delivery, since these have been counted in Log 1. [↑](#footnote-ref-8)
9. To estimate the annual cost of a station or piece of equipment, divide the total cost of the item by the annuity factor that corresponds to the useful life of equipment. [↑](#footnote-ref-9)