Tool Walkthrough and Inputs Needed

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Tool Overview and Demo

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Illustrative Scenario

- “A state Medicaid program plans to increase LARC-related reimbursement rate by $259 per insertion ($156 per average LARC device and $103 per insertion service) [1].

As a result of this rate increase, the program estimates that LARC use among Medicaid enrollees at risk for unintended pregnancy could increase by 9 percentage points over 3 years (i.e., 3 percentage points every year).”

[1] based on the pre- and post-policy rates for relevant CPT codes in a state Medicaid program in 2014
<table>
<thead>
<tr>
<th>Category</th>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristics of target population</td>
<td>1. Size</td>
<td>10,000</td>
</tr>
<tr>
<td></td>
<td>2. Age composition</td>
<td>Based on NSFG 2011-13 Medicaid and low income (&lt;138% FPL) subsample</td>
</tr>
<tr>
<td>Intervention effect</td>
<td>3. Type of LARC affected: postpartum or interval</td>
<td>Interval</td>
</tr>
<tr>
<td></td>
<td>4. Change in LARC uptake</td>
<td>9%</td>
</tr>
<tr>
<td></td>
<td>5. Implementation period</td>
<td>3 years</td>
</tr>
<tr>
<td>Economic projection time frame</td>
<td>6. Fiscal years for projection</td>
<td>5 fiscal years</td>
</tr>
<tr>
<td>Intervention cost</td>
<td>7. Programmatic cost</td>
<td>Not considered</td>
</tr>
<tr>
<td></td>
<td>8. Clinical service cost</td>
<td>$156 per device and $103 per insertion</td>
</tr>
</tbody>
</table>
Tool Demo
Extra Functions

- **Account for policy context**
  - Medicaid family planning waiver / Medicaid expansion
  - Projected increase in target population
  - Will affect budget and ROI
  - 340B drug discounting program
    - Discounted LARC devices prices for Title X clinics
    - Available cheap IUD: Liletta ($50/unit)
  - State can compare the tool’s baseline estimates with observed data
Extra Functions

- **Advanced Input Parameters**
  - input parameters can be modified to state-specific values
  - Can be continuously updated when new data is available

- **Calibration**
  - State can compare the tool’s baseline estimates with observed data
Target Population

At baseline, the population targeted by the intervention consists of 10,000 women at reproductive age, with 23% teens. The size of the population remains stable.

1. Baseline population size: 10,000 women at reproductive age (15-44)

2. Baseline age composition:
   - 15-19: 23.3%
   - 20-24: 19.0%
   - 25-29: 18.9%
   - 30-34: 18.1%
   - 35-39: 11.5%
   - 40-44: 9.2%

3. Future population change: Population size will not change

Screenshots (as back up)
Intervention's Impact

The intervention is expected to increase the uptake of interval LARC by 9.0% among women at risk for unintended pregnancy over next 3 years. The impact will be projected over next 5 fiscal years.

1. Expected Effect on LARC Use
   - Increase Immediate Postpartum LARC

2. Time Horizon
   - Project the impact of intervention for 5 years from the date when the intervention starts.
Program/Intervention Cost

In the intervention scenario, in addition to Medicaid costs incurred by more LARC insertions, the intervention also requires Medicaid investment in two domains, including $156 additional payment per LARC device, and $103 on services related to LARC insertion.

1. Cost Items
   The intervention will involve... (please choose all cost items that apply)
   - programmatic cost
   - A payment rate change for LARC devices
     On average, each LARC device receives an additional
     $156 on top of the rmb's rates in status quo.
     Help me to estimate this number
   - A payment rate change for LARC insertion services
     Providers receive an additional
     $103 per LARC insertion for related services,
     compared to status quo.
     Help me to estimate this number
   - LARC removal/reinsertion rmb's rates also change
Program/Intervention Cost

In the intervention scenario, in addition to Medicaid costs incurred by more LARC insertions, the intervention also requires Medicaid investment in two domains, including $156 additional payment per LARC device, and $103 on services related to LARC insertion.

1. Cost Items
   The intervention will involve... (please choose all cost items that apply)

   - [ ] programmatic cost

   - [ ] A payment rate change for LARC devices
     On average, each LARC device receives an additional
     $156 on top of the rmbrs rates in status quo.

   - [ ] A payment rate change for LARC insertion services
     Providers receive an additional $103 per LARC
     insertion for related services, compared to status quo.

   - [ ] LARC removal/reinsertion rmbrs rates also change

   Help me to estimate this number

   Help me to estimate this number
Pregnancy Outcomes

In the intervention scenario, the number of new unintended pregnancies per month decreases from 84 at baseline to 66 by the end of the intervention implementation period (year 3) - a 21% decline compared to status quo.

Monthly Trend of New Unintended Pregnancy, N
Economic Impact

Over 5 years, the proposed intervention will cost Medicaid $855,373. Meanwhile, the intervention will reduce Medicaid spending pertaining to unintended pregnancy by $4.5M. Please see the table and figure for yearly breakdown.

1. Intervention/programmatic costs, and pregnancy-related Medicaid savings

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Intervention Cost</th>
<th>Programmatic Cost</th>
<th>Savings on UI Pregnancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 1</td>
<td>$217,756</td>
<td>$0</td>
<td>($30,626)</td>
</tr>
<tr>
<td>FY 2</td>
<td>$249,392</td>
<td>$0</td>
<td>($444,817)</td>
</tr>
<tr>
<td>FY 3</td>
<td>$263,954</td>
<td>$0</td>
<td>($579,385)</td>
</tr>
<tr>
<td>FY 4</td>
<td>$52,397</td>
<td>$0</td>
<td>($1.5M)</td>
</tr>
<tr>
<td>FY 5</td>
<td>$61,475</td>
<td>$0</td>
<td>($1.6M)</td>
</tr>
</tbody>
</table>

3-Year ROI*: 1.0
* cumulative return on investment; ** recal for ROI for other years.

2. Yearly Total Medicaid Spending on Pregnancy and Contraception

(left to right: FY1 to FY5)

<table>
<thead>
<tr>
<th>Year</th>
<th>Status Quo</th>
<th>Intervention</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY 1</td>
<td>$18,000</td>
<td>$16,000</td>
</tr>
<tr>
<td>FY 2</td>
<td>$16,000</td>
<td>$14,000</td>
</tr>
<tr>
<td>FY 3</td>
<td>$14,000</td>
<td>$12,000</td>
</tr>
<tr>
<td>FY 4</td>
<td>$12,000</td>
<td>$10,000</td>
</tr>
<tr>
<td>FY 5</td>
<td>$10,000</td>
<td>$8,000</td>
</tr>
</tbody>
</table>
Screenshots (as back up)

Summary by Fiscal Year

Pick a fiscal year: Fiscal Year 3

Description
As shown in charts and table, during the 3rd fiscal year since the intervention started, 12% among the 10,000 Medicaid female enrollees at reproductive age would have LARC inserted, compared to 6% if no intervention.

As a result, number (rate) of unintended (UI) pregnancies declined from 1,013 (101 per 1,000 women) without intervention to 832 (83 per 1,000 women) with intervention, a 18% reduction. Accordingly, number of births from UI pregnancy drops by 13%.

For the 3rd fiscal year, the intervention saves Medicaid $979,185 on UI pregnancy-related spending while incurring $715,231 service and programmatic cost, resulting in a net saving of $263,954. Cumulative ROI is 0.99.

I. Population (may not be informative if it is a steady cohort)
Target Population of 10,000 Medicaid Enrolled Women

- 23% 15-19
- 19% 20-24
- 19% 25-29
- 18% 30-34
- 12% 35-39
- 9% 40-44

II. Reproductive Status Profile
- Status Quo: Sexually active but not seeking pregnancy
- Intervention: No use: 7%

III. Pregnancy and Medicaid Annual Spending
The table displays yearly numbers/spending in the intervention scenario vs. status quo, and size of difference.

<table>
<thead>
<tr>
<th>A. Status Quo</th>
<th>B. Intervention</th>
<th>Difference (PA)</th>
<th>% change</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. LARC Insertion</td>
<td>91</td>
<td>305</td>
<td>214</td>
</tr>
</tbody>
</table>
| 2. Health outcomes, number and rate (in parentheses) **
| UI Pregnancy | 1,013 (101) | 832 (83) | -181 (18) | -18% |
| Birth | 399 | 547 | -148 | -13% |
| Abortion | 478 | 307 | -171 | -17% |
| Miscarriage | 186 | 125 | -61 | -17% |
| 3. Annual Medicaid spending, by cost type
| UI pregnancy | $7.4M | $6.4M | ($979,185) | -13% |
| Contraceptives | $453,136 | $727,090 | $273,954 | 58% |
| Programmatic cost | - | - | - | - |
| Total | $7.8M | $7.1M | ($715,231) | -9% |
| 4. Cumulative ROI | 0.99 |