

Financial Services Division Model the fiscal impact of removing the prior authorization for HIV treatment regimens. Analyst: Brian Golden Date: 3/11/2021 The estimated range of total cost outcomes is between \$6,332,306 and \$63,323,058. The estimated range of GF-S cost outcomes is between \$1,372,203 and \$13,722,030.

Utilization Date Range

From 1/1/2019

To 12/31/2019

Combined cost of MTR utilizers switching to STRs

| MTR Users | Shift Percentag e | Additional Costs for STR | Additional GF-S Costs for STR |
|--------------|-------------------------|--------------------------------|-------------------------------------|
| | - | | |
| 5738 | | \$6,332,306 | |
| 5738 | 15% | \$9,498,459 | \$2,058,305 |
| 5738 | 20% | \$12,664,612 | \$2,744,406 |
| 5738 | 25% | \$15,830,765 | \$3,430,508 |
| 5738 | 30% | \$18,996,918 | \$4,116,609 |
| 5738 | 35% | \$22,163,070 | \$4,802,711 |
| 5738 | 40% | \$25,329,223 | \$5,488,812 |
| 5738 | 45% | \$28,495,376 | \$6,174,914 |
| 5738 | 50% | \$31,661,529 | \$6,861,015 |
| 5738 | 55% | \$34,827,682 | \$7,547,117 |
| 5738 | 60% | \$37,993,835 | \$8,233,218 |
| 5738 | 65% | \$41,159,988 | \$8,919,320 |
| 5738 | 70% | \$44,326,141 | \$9,605,421 |
| 5738 | 75% | \$47,492,294 | \$10,291,523 |
| 5738 | 80% | \$50,658,447 | \$10,977,624 |
| 5738 | 85% | \$53,824,600 | \$11,663,726 |
| 5738 | 90% | \$56,990,753 | \$12,349,827 |
| 5738 | 95% | \$60,156,905 | \$13,035,929 |
| 5738 | 100% | \$63,323,058 | \$13,722,030 |

MTR Utilizer switching to STR Excludes Truvada and Descovy PrEP utilizers

| MTR Users | Shift Percenta ge | Additional Costs for STR | Additional GF-S Costs for STR |
|--------------|-------------------------|--------------------------------|-------------------------------------|
| 3914 | 10% | \$4,971,132 | \$1,080,358 |
| 3914 | 15% | \$7,456,697 | \$1,620,538 |
| 3914 | 20% | \$9,942,263 | \$2,160,717 |
| 3914 | 25% | \$12,427,829 | \$2,700,896 |
| 3914 | 30% | \$14,913,395 | \$3,241,075 |
| 3914 | 35% | \$17,398,961 | \$3,781,254 |
| 3914 | 40% | \$19,884,526 | \$4,321,433 |
| 3914 | 45% | \$22,370,092 | \$4,861,613 |
| 3914 | 50% | \$24,855,658 | \$5,401,792 |
| 3914 | 55% | \$27,341,224 | \$5,941,971 |
| 3914 | 60% | \$29,826,789 | \$6,482,150 |
| 3914 | 65% | \$32,312,355 | \$7,022,329 |
| 3914 | 70% | \$34,797,921 | \$7,562,508 |
| 3914 | 75% | \$37,283,487 | \$8,102,688 |
| 3914 | 80% | \$39,769,053 | \$8,642,867 |
| 3914 | 85% | \$42,254,618 | \$9,183,046 |
| 3914 | 90% | \$44,740,184 | \$9,723,225 |
| 3914 | 95% | \$47,225,750 | \$10,263,404 |
| 3914 | 100% | \$49,711,316 | \$10,803,584 |

Truvada PrEP utilizers switching to Descovy.

| | Shift | Additional Costs for | Additional GF-S Costs |
|-----------|------------|-------------------------|--------------------------|
| MTR Users | Percentage | STR | for STR |
| 1824 | 10% | \$1,361,174 | \$291,845 |
| 1824 | 15% | \$2,041,761 | \$437,767 |
| 1824 | 20% | \$2,722,349 | \$583 <i>,</i> 689 |
| 1824 | 25% | \$3,402,936 | \$729,612 |
| 1824 | 30% | \$4,083,523 | \$875,534 |
| 1824 | 35% | \$4,764,110 | \$1,021,456 |
| 1824 | 40% | \$5,444,697 | \$1,167,379 |
| 1824 | 45% | \$6,125,284 | \$1,313,301 |
| 1824 | 50% | \$6,805,871 | \$1,459,223 |
| 1824 | 55% | \$7,486,458 | \$1,605,146 |
| 1824 | 60% | \$8,167,046 | \$1,751,068 |
| 1824 | 65% | \$8,847,633 | \$1,896,990 |
| 1824 | 70% | \$9,528,220 | \$2,042,913 |
| 1824 | 75% | \$10,208,807 | \$2,188,835 |
| 1824 | 80% | \$10,889,394 | \$2,334,757 |
| 1824 | 85% | \$11,569,981 | \$2,480,680 |
| 1824 | 90% | \$12,250,568 | \$2,626,602 |
| 1824 | 95% | \$12,931,156 | \$2,772,524 |
| 1824 | 100% | \$13,611,743 | \$2,918,447 |

| | Average |
|-----|-------------|
| | Annual Cost |
| STR | \$25,024 |
| MTR | \$12,333 |

MC cost overall

| | Shift | Additional | Additional |
|-------|-----------|--------------|--------------|
| MTR | Percentag | Costs for | GF-S Costs |
| Users | е | STR | for STR |
| 5508 | 10% | \$6,079,396 | \$1,276,679 |
| 5508 | 15% | \$9,119,094 | \$1,915,019 |
| 5508 | 20% | \$12,158,793 | \$2,553,358 |
| 5508 | 25% | \$15,198,491 | \$3,191,698 |
| 5508 | 30% | \$18,238,189 | \$3,830,038 |
| 5508 | 35% | \$21,277,887 | \$4,468,377 |
| 5508 | 40% | \$24,317,585 | \$5,106,717 |
| 5508 | 45% | \$27,357,283 | \$5,745,057 |
| 5508 | 50% | \$30,396,981 | \$6,383,396 |
| 5508 | 55% | \$33,436,679 | \$7,021,736 |
| 5508 | 60% | \$36,476,378 | \$7,660,075 |
| 5508 | 65% | \$39,516,076 | \$8,298,415 |
| 5508 | 70% | \$42,555,774 | \$8,936,755 |
| 5508 | 75% | \$45,595,472 | \$9,575,094 |
| 5508 | 80% | \$48,635,170 | \$10,213,434 |
| 5508 | 85% | \$51,674,868 | \$10,851,774 |
| 5508 | 90% | \$54,714,566 | \$11,490,113 |
| 5508 | 95% | \$57,754,265 | \$12,128,453 |
| 5508 | 100% | \$60,793,963 | \$12,766,792 |

MTR Utilizer switching to STR Excludes Truvada and Descovy PrEP utilizers

| excludes | ITUVdud | diiù | Descovy | PIEP | utilizers | |
|----------|---------|------|---------|------|-----------|----|
| | | | | | | п. |

| | Shift | Additional | Additional |
|-------|----------|--------------|-------------|
| MTR | Percenta | Costs for | GF-S Costs |
| Users | ge | STR | for STR |
| 3746 | 10% | \$4,753,981 | \$998,341 |
| 3746 | 15% | \$7,130,971 | \$1,497,511 |
| 3746 | 20% | \$9,507,962 | \$1,996,681 |
| 3746 | 25% | \$11,884,952 | \$2,495,852 |
| 3746 | 30% | \$14,261,943 | \$2,995,022 |
| 3746 | 35% | \$16,638,933 | \$3,494,192 |
| 3746 | 40% | \$19,015,924 | \$3,993,363 |
| 3746 | 45% | \$21,392,914 | \$4,492,533 |
| 3746 | 50% | \$23,769,904 | \$4,991,704 |
| 3746 | 55% | \$26,146,895 | \$5,490,874 |
| 3746 | 60% | \$28,523,885 | \$5,990,044 |
| 3746 | 65% | \$30,900,876 | \$6,489,215 |
| 3746 | 70% | \$33,277,866 | \$6,988,385 |
| 3746 | 75% | \$35,654,857 | \$7,487,555 |
| 3746 | 80% | \$38,031,847 | \$7,986,726 |
| 3746 | 85% | \$40,408,838 | \$8,485,896 |
| 3746 | 90% | \$42,785,828 | \$8,985,066 |
| 3746 | 95% | \$45,162,818 | \$9,484,237 |
| 3746 | 100% | \$47,539,809 | \$9,983,407 |

| | Average |
|---------|-------------|
| | Annual Cost |
| Descovy | \$15,412 |
| Truvada | \$7,890 |

Truvada PrEP utilizers switching to Descovy.

| | | Additional | Additional |
|-----------|------------|--------------|-------------|
| | Shift | Costs for | GF-S Costs |
| MTR Users | Percentage | STR | for STR |
| 1762 | 10% | \$1,325,415 | \$278,339 |
| 1762 | 15% | \$1,988,123 | \$417,508 |
| 1762 | 20% | \$2,650,831 | \$556,677 |
| 1762 | 25% | \$3,313,538 | \$695,846 |
| 1762 | 30% | \$3,976,246 | \$835,016 |
| 1762 | 35% | \$4,638,954 | \$974,185 |
| 1762 | 40% | \$5,301,662 | \$1,113,354 |
| 1762 | 45% | \$5,964,369 | \$1,252,523 |
| 1762 | 50% | \$6,627,077 | \$1,391,693 |
| 1762 | 55% | \$7,289,785 | \$1,530,862 |
| 1762 | 60% | \$7,952,492 | \$1,670,031 |
| 1762 | 65% | \$8,615,200 | \$1,809,201 |
| 1762 | 70% | \$9,277,908 | \$1,948,370 |
| 1762 | 75% | \$9,940,615 | \$2,087,539 |
| 1762 | 80% | \$10,603,323 | \$2,226,708 |
| 1762 | 85% | \$11,266,031 | \$2,365,878 |
| 1762 | 90% | \$11,928,738 | \$2,505,047 |
| 1762 | 95% | \$12,591,446 | \$2,644,216 |
| 1762 | 100% | \$13,254,154 | \$2,783,385 |

| | Average |
|-----|-------------|
| | Annual Cost |
| STR | \$22,917 |
| MTR | \$9,991 |

MTR Utilizer switching to STR Excludes Truvada and Descovy PrEP utilizers

| | Shift | Additional | Additional |
|-------|----------|-------------|------------|
| MTR | Percenta | Costs for | GF-S Costs |
| Users | ge | STR | for STR |
| 168 | 10% | \$217,151 | \$82,018 |
| 168 | 15% | \$325,726 | \$123,026 |
| 168 | 20% | \$434,301 | \$164,035 |
| 168 | 25% | \$542,877 | \$205,044 |
| 168 | 30% | \$651,452 | \$246,053 |
| 168 | 35% | \$760,027 | \$287,062 |
| 168 | 40% | \$868,603 | \$328,071 |
| 168 | 45% | \$977,178 | \$369,079 |
| 168 | 50% | \$1,085,753 | \$410,088 |
| 168 | 55% | \$1,194,329 | \$451,097 |
| 168 | 60% | \$1,302,904 | \$492,106 |
| 168 | 65% | \$1,411,479 | \$533,115 |
| 168 | 70% | \$1,520,055 | \$574,124 |
| 168 | 75% | \$1,628,630 | \$615,132 |
| 168 | 80% | \$1,737,205 | \$656,141 |
| 168 | 85% | \$1,845,781 | \$697,150 |
| 168 | 90% | \$1,954,356 | \$738,159 |
| 168 | 95% | \$2,062,931 | \$779,168 |
| 168 | 100% | \$2,171,507 | \$820,176 |

| | Average |
|---------|-------------|
| | Annual Cost |
| Descovy | \$12,224 |
| Truvada | \$6,457 |

Truvada PrEP utilizers switching to Descovy.

| MTR Users | Shift Percentage | Additional Costs for STR | Additional GF-S Costs for STR |
|-----------|---------------------|--------------------------------|-------------------------------------|
| 62 | 10% | \$35,759 | \$13,506 |
| 62 | 15% | \$53,638 | \$20,259 |
| 62 | 20% | \$71,518 | \$27,012 |
| 62 | 25% | \$89,397 | \$33,765 |
| 62 | 30% | \$107,277 | \$40,518 |
| 62 | 35% | \$125,156 | \$47,271 |
| 62 | 40% | \$143,036 | \$54,024 |
| 62 | 45% | \$160,915 | \$60,777 |
| 62 | 50% | \$178,794 | \$67,531 |
| 62 | 55% | \$196,674 | \$74,284 |
| 62 | 60% | \$214,553 | \$81,037 |
| 62 | 65% | \$232,433 | \$87,790 |
| 62 | 70% | \$250,312 | \$94,543 |
| 62 | 75% | \$268,192 | \$101,296 |
| 62 | 80% | \$286,071 | \$108,049 |
| 62 | 85% | \$303,951 | \$114,802 |
| 62 | 90% | \$321,830 | \$121,555 |
| 62 | 95% | \$339,709 | \$128,308 |
| 62 | 100% | \$357,589 | \$135,061 |

FFS cost overall

| | Shift | Additional | Additional |
|-------|-----------|-------------|------------|
| MTR | Percentag | Costs for | GF-S Costs |
| Users | е | STR | for STR |
| 230 | 10% | \$252,910 | \$95,524 |
| 230 | 15% | \$379,364 | \$143,286 |
| 230 | 20% | \$505,819 | \$191,048 |
| 230 | 25% | \$632,274 | \$238,809 |
| 230 | 30% | \$758,729 | \$286,571 |
| 230 | 35% | \$885,184 | \$334,333 |
| 230 | 40% | \$1,011,638 | \$382,095 |
| 230 | 45% | \$1,138,093 | \$429,857 |
| 230 | 50% | \$1,264,548 | \$477,619 |
| 230 | 55% | \$1,391,003 | \$525,381 |
| 230 | 60% | \$1,517,457 | \$573,143 |
| 230 | 65% | \$1,643,912 | \$620,904 |
| 230 | 70% | \$1,770,367 | \$668,666 |
| 230 | 75% | \$1,896,822 | \$716,428 |
| 230 | 80% | \$2,023,277 | \$764,190 |
| 230 | 85% | \$2,149,731 | \$811,952 |
| 230 | 90% | \$2,276,186 | \$859,714 |
| 230 | 95% | \$2,402,641 | \$907,476 |
| 230 | 100% | \$2,529,096 | \$955,238 |

Requested Information

What would the fiscal impact be for a policy change that would remove the prior approval requirement from Anti-Retroviral Drugs used for treating and preventing Human Immunodeficiency Virus (HIV) infections for Medicaid eligible persons, which would encourage clients to switch from lower cost Multiple Tablet Regimens (MTR) to higher cost Single Tablet Regimens (STR)?

Note:

The exact percentage of people that would switch to STRs from MTRs is not known as those choices are made between a patient and their physician. The analysis assumes that at least 10 percent of utilizers for would switch to STRs.

Methodology

Data Source

The data used in this analysis was extracted from the ProviderOne Operations Data Store on 3/12/2021 using the following criteria.

- Claim business status: 71 Fee-For-Service (FFS) paid, and 83 Managed Care (MC) accepted.
- 2. Claim type equal 24 (pharmacy)
- 3. Dates of Service are between 1/1/2019 and 12/31/2019.

Analytical approach

The summary model to the right is based on a list HIV Drugs and their associated treatment regimen types. The details on the label names for the drugs and their assigned treatment regimen types are listed on the "Drug_Rgmn_Type" tab. Multi Tablet Regimen (MTR) and Single Tablet Regimen (STR) groups were provided by HCA CQCT. Note, not all Anti-Retroviral HIV treatments were included. Drugs that had no utilization or very low utilization were excluded.

- 1. The analysis includes the impact from claims where the drugs were federal rebate eligible drugs and those that were non-federal rebate eligible. Non-federal rebate eligible drugs were those that either did not participate in rebate program or the prescription was filled at a pharmacy that did not qualify for a federal rebate. (e.g., 340B program pharmacies)
 - a. Note, drugs that had TPL coverage were excluded. HCA policy does not directly impact the cost of these prescriptions or how much the TPL provider will cover.
- 2. The impact is the sum of two pieces:
 - a. The expected increase from clients not using Truvada or Descovy for PrEP (pre-exposure prophylaxis), switching from an MTR regimen to a STR regimen.
 - The count of unique MTR utilizers that did not also receive an STR drug during the year and did not receive Truvada or Descovy was determined using claims data.
 - b. The expected increase from clients strictly using Truvada for PrEP, switching to Descovy.
 - The count of unique Truvada PrEP utilizers was based on those people that were utilizing on Truvada with no other HIV treatments by CQCT. This is a high-level estimate; not an attempt to clinically define the purpose of the treatment.
- 3. For the purposes of this analysis the average annual cost was based on the annual cost per drug, weighted by days supplied. The annual cost for each drug was estimated using the average cost per day times 365 days. The costs were net of invoiced rebate amounts.
 - a. For Truvada and Descovy, only the costs associated with treatment, not PrEP, were included in the MTR average cost calculations. The split between use of these drugs for PrEP versus for treatment was based on data from CQCT's original modeling.
- 4. The FFS FMAPs were based on the allocation codes associated with the claims, and the MC FMAPs were estimated based on the most prevalent

allocation code associated with the client Recipient Aid Categories in reported encounters. The percentages are from State Fiscal year 2022.

5. The average annual cost varies materially between FFS and MC. The key driver was the drug utilization pattern. FFS has a small population with a higher prevalence of lower cost drug utilization.