

**Addiction and Prevention Services  
State Quality Committee**

This report is based upon paid claims data. Reviewers are cautioned not to draw conclusions about trends until all of the most recent quarter's data has been received and posted and substantial claims run out for the additional quarters has occurred (IBNR). Adolescents may be counted in adult or adolescent categories depending upon their date of birth.

This report can not be used to determine quality of care or outcomes of care.

**Final  
AGGREGATE ANALYSIS REPORT**

**Reporting Period**

**FROM:** July 1, 2009

**TO:** December 31, 2009

**Note: Analysis done on Q1 only**

**Unit/Team/Department:**

PIHP Quality Improvement

**Topic/Project:**

Over and Under Utilization

**Higher Levels of Care Utilization (VO #9a, Grid Row #6) by claims**

**Monitoring Standard:**

42 CFR 438.240 (a and b) Quality Assessment and Performance Improvement Program

Utilization Management policies and procedures:

42 CFR 438.210 (b-e) Coverage and authorization of services

42 CFR 438.242 Health Information System

**Goal:**

The PIHP will track and report quarterly to SRS/AAPS higher levels of care by claims data for a given quarter.

Block Grant Application Goal: 1

**Objectives:**

To assure the documentation is capturing this utilization data

To evaluate for trends that may require system intervention and education

To allow data to be presented consistently for Committee evaluation and response

**Data Collection Activities:**

Data was collected from the ValueOptions CareConnect claims. Utilization report including Hospital Detox, Reintegration, Intermediate split by adult/adolescent, and Social Detox services. The report details include average covered lives/Per 1000 calculations for Medicaid only, and admissions and days for both Medicaid and AAPS funded. The report will be based on the service date begin and service date end & will provide the count of actual units. The report will be claim based as a rolling quarter to show a full year by 4th quarter. This report will be provided as an aggregate, as well as by SRS region.

Previous quarters data will be updated over time as claims run out occurs. Data from the 2009 claims run-out updated data reports have been used for YTY comparison tables.

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A new Summary Table has been created this quarter to add to this report. (See page five) This summary table contains admissions and average length of stay by Region. Social Detox for AAPS and Hospital based services for Medicaid have been separated from all other modalities.

**Results: See next page**

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**All Regions AAPS Funded:**

**Hospital Detoxification and Higher Levels of Care Utilization**

|  | 1st Quarter | 2nd Quarter | Year to Date |
|--|-------------|-------------|--------------|
| <b><u>TOTAL FOR: LEVEL III.1 - RESIDENTIAL REINTEGRATION</u></b>           |             |             |              |
| Admissions   | 269         | 279         | 548          |
| Days Claimed   | 7,685       | 5,846       | 13,531       |
| Average Length of Stay   | 28.57       | 20.95       | 24.69        |
| <b><u>LEVEL III.2D - RESIDENTIAL SOCIAL DETOX - ADULT</u></b>              |             |             |              |
| Admissions   | 639         | 480         | 1,119        |
| Days Claimed   | 2,065       | 1,616       | 3,681        |
| Average Length of Stay   | 3.23        | 3.37        | 3.29         |
| <b><u>LEVEL III.2D - RESIDENTIAL SOCIAL DETOX - ADOLESCENT</u></b>         |             |             |              |
| Admissions   | 0           | 1           | 1            |
| Days Claimed   |             | 4           | 4            |
| Average Length of Stay   |             | 4.00        | 4.00         |
| <b><u>TOTAL FOR: LEVEL III.2D - RESIDENTIAL SOCIAL DETOX</u></b>           |             |             |              |
| Admissions   | 639         | 481         | 1,120        |
| Days Claimed   | 2,065       | 1,620       | 3,685        |
| Average Length of Stay   | 3.23        | 3.37        | 3.29         |
| <b><u>TOTAL FOR: LEVEL III.3 - RESIDENTIAL ADULT INTERMEDIATE</u></b>      |             |             |              |
| Admissions   | 595         | 464         | 1,059        |
| Days Claimed   | 12,030      | 8,962       | 20,992       |
| Average Length of Stay   | 20.22       | 19.31       | 19.82        |
| <b><u>TOTAL FOR: LEVEL III.5 - RESIDENTIAL ADOLESCENT INTERMEDIATE</u></b> |             |             |              |
| Admissions   | 10          | 8           | 18           |
| Days Claimed   | 303         | 224         | 527          |
| Average Length of Stay   | 30.30       | 28.00       | 29.28        |
| <hr/>  |             |             |              |
| <b><u>Region Total - AAPS - All Regions</u></b>                            |             |             |              |
| Admissions   | 1,513       | 1,232       | 2,745        |
| Days Claimed   | 22,083      | 16,652      | 38,735       |
| Average Length of Stay   | 14.60       | 13.52       | 14.11        |

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### All Regions Medicaid:

#### Hospital Detoxification and Higher Levels of Care Utilization

|   | 1st Quarter | 2nd Quarter | Year to Date |
|---|-------------|-------------|--------------|
| Unduplicated Covered Lives:   | 218,593     | 238,020     | 240,129      |
| <b><u>TOTAL FOR: LEVEL III.1 - RESIDENTIAL REINTEGRATION</u></b>                |             |             |              |
| Admissions  | 71          | 67          | 138          |
| Days Claimed  | 1,973       | 1,495       | 3,468        |
| Admissions/1000 Lives   | 0.32        | 0.28        | 0.57         |
| Days/1000 Lives   | 9.03        | 6.28        | 14.44        |
| Average Length of Stay  | 27.79       | 22.31       | 25.13        |
| <b><u>TOTAL FOR: LEVEL III.3 - RESIDENTIAL ADULT INTERMEDIATE</u></b>           |             |             |              |
| Admissions  | 201         | 172         | 373          |
| Days Claimed  | 4,203       | 2,926       | 7,129        |
| Admissions/1000 Lives   | 0.92        | 0.72        | 1.55         |
| Days/1000 Lives   | 19.23       | 12.29       | 29.69        |
| Average Length of Stay  | 20.91       | 17.01       | 19.11        |
| <b><u>TOTAL FOR: LEVEL III.5 - RESIDENTIAL ADOLESCENT INTERMEDIATE</u></b>      |             |             |              |
| Admissions  | 31          | 17          | 48           |
| Days Claimed  | 840         | 487         | 1,327        |
| Admissions/1000 Lives   | 0.14        | 0.07        | 0.20         |
| Days/1000 Lives   | 3.84        | 2.05        | 5.53         |
| Average Length of Stay  | 27.10       | 28.65       | 27.65        |
| <b><u>TOTAL FOR: LEVEL IV - DETOXIFICATION SERVICES IN HOSPITAL SETTING</u></b> |             |             |              |
| Admissions  | 23          | 10          | 33           |
| Days Claimed  | 93          | 23          | 116          |
| Admissions/1000 Lives   | 0.11        | 0.04        | 0.14         |
| Days/1000 Lives   | 0.43        | 0.10        | 0.48         |
| Average Length of Stay  | 4.04        | 2.30        | 3.52         |
| <b><u>LEVEL IV - HOSPITAL BASED ADDICTION OTHER SERVICES - ADULT</u></b>        |             |             |              |
| Admissions  | 37          | 13          | 50           |
| Days Claimed  | 101         | 37          | 138          |
| Admissions/1000 Lives   | 0.17        | 0.05        | 0.21         |
| Days/1000 Lives   | 0.46        | 0.16        | 0.57         |
| Average Length of Stay  | 2.73        | 2.85        | 2.76         |
| <b><u>LEVEL IV - HOSPITAL BASED ADDICTION OTHER SERVICES - ADOLESCENT</u></b>   |             |             |              |
| Admissions  | 1           | 2           | 3            |
| Days Claimed  | 1           | 7           | 8            |
| Admissions/1000 Lives   | 0.00        | 0.01        | 0.01         |
| Days/1000 Lives   | 0.00        | 0.03        | 0.03         |
| Average Length of Stay  | 1.00        | 3.50        | 2.67         |

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**TOTAL FOR: LEVEL IV - HOSPITAL BASED ADDICTION OTHER SERVICES**

|   |       |       |        |
|---|-------|-------|--------|
| Admissions  | 38    | 15    | 53     |
| Days Claimed  | 102   | 44    | 146    |
| Admissions/1000 Lives                               | 0.17  | 0.06  | 0.22   |
| Days/1000 Lives                                     | 0.47  | 0.18  | 0.61   |
| Average Length of Stay                              | 2.68  | 2.93  | 2.75   |
| <hr/>   |       |       |        |
| <b><u>Region Total - Medicaid - All Regions</u></b> |       |       |        |
| Admissions  | 364   | 281   | 645    |
| Days Claimed  | 7,211 | 4,975 | 12,186 |
| Admissions/1000 Lives                               | 1.67  | 1.18  | 2.69   |
| Days/1000 Lives                                     | 32.99 | 20.90 | 50.75  |
| Average Length of Stay                              | 19.81 | 17.70 | 18.89  |

**Summary Table\*: Detail by Region and Funding Source: See next page**

**\* Note there are very slight differences in numbers from the data above to the Summary Table as these two reports were run one week apart. This will not occur in future reports.**

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Kansas Department of Social and Rehabilitation Services

Over/Under Utilization - Admissions & Average Length of Stay Summary by Region (High Levels of Care Only)

7/1/2009 - 12/31/2009

|   | Kansas City  |           |         |                 | Northeast  |                     |                |              | South Central |         |                     |              | Southeast |                        |    |    | West  |       |    |    | Wichita |       |    |    | Total |       |    |    |
|---|--------------|-----------|---------|-----------------|------------|---------------------|----------------|--------------|---------------|---------|---------------------|--------------|-----------|------------------------|----|----|-------|-------|----|----|---------|-------|----|----|-------|-------|----|----|
|   | Q1           | Q2        | Q3      | Q4              | Q1         | Q2                  | Q3             | Q4           | Q1            | Q2      | Q3                  | Q4           | Q1        | Q2                     | Q3 | Q4 | Q1    | Q2    | Q3 | Q4 | Q1      | Q2    | Q3 | Q4 | Q1    | Q2    | Q3 | Q4 |
| <b>AAPS Counts</b>  |              |           |         |                 |            |                     |                |              |               |         |                     |              |           |                        |    |    |       |       |    |    |         |       |    |    |       |       |    |    |
| Admissions (minus Social Detox)                                 | 183          | 154       |         |                 | 163        | 125                 |                |              | 128           | 90      |                     |              | 82        | 68                     |    |    | 106   | 94    |    |    | 179     | 181   |    |    | 841   | 712   |    |    |
| ALOS (minus Social Detox)                                       | 26.59        | 22.32     |         |                 | 22.14      | 20.05               |                |              | 22.37         | 20.92   |                     |              | 23.07     | 16.85                  |    |    | 24.67 | 20.93 |    |    | 19.17   | 17.70 |    |    | 22.92 | 19.87 |    |    |
| Social Detox Admissions   | 334          | 277       |         |                 | 156        | 107                 |                |              | 24            | 17      |                     |              | 34        | 32                     |    |    | 41    | 11    |    |    | 39      | 24    |    |    | 628   | 468   |    |    |
| Social Detox ALOS   | 2.70         | 3.19      |         |                 | 3.72       | 3.57                |                |              | 3.88          | 4.24    |                     |              | 4.06      | 2.94                   |    |    | 4.00  | 3.09  |    |    | 3.74    | 4.08  |    |    | 3.22  | 3.34  |    |    |
| "Other" Admissions (minus Social Detox)                         |              |           |         |                 |            |                     |                |              |               |         |                     |              |           |                        |    |    |       |       |    |    |         |       |    |    | 11    | 14    |    |    |
| "Other" Social Detox Admissions                                 |              |           |         |                 |            |                     |                |              |               |         |                     |              |           |                        |    |    |       |       |    |    |         |       |    |    | 5     | 10    |    |    |
| <b>Medicaid Counts</b>  |              |           |         |                 |            |                     |                |              |               |         |                     |              |           |                        |    |    |       |       |    |    |         |       |    |    |       |       |    |    |
| Admissions (minus Social Detox/Hospital)                        | 74           | 63        |         |                 | 65         | 52                  |                |              | 47            | 33      |                     |              | 29        | 19                     |    |    | 20    | 23    |    |    | 62      | 60    |    |    | 297   | 250   |    |    |
| ALOS (minus Social Detox/Hospital)                              | 23.30        | 21.94     |         |                 | 21.83      | 21.88               |                |              | 24.96         | 14.42   |                     |              | 26.72     | 16.79                  |    |    | 24.95 | 22.09 |    |    | 20.65   | 15.12 |    |    | 23.13 | 18.92 |    |    |
| Hospital/Social Detox Admissions                                | 17           | 9         |         |                 | 10         | 6                   |                |              | 6             | 1       |                     |              | 4         | 2                      |    |    | 2     | 1     |    |    | 20      | 5     |    |    | 59    | 24    |    |    |
| Hospital/Social Detox ALOS                                      | 3.53         | 3.33      |         |                 | 2.20       | 2.67                |                |              | 3.50          | 3.00    |                     |              | 4.75      | 2.00                   |    |    | 5.00  | 5.00  |    |    | 3.10    | 1.60  |    |    | 3.29  | 2.75  |    |    |
| <b>AAPS Totals (all counts include "Other" admits and days)</b> |              |           |         |                 |            |                     |                |              |               |         |                     |              |           | <b>Medicaid Totals</b> |    |    |       |       |    |    |         |       |    |    |       |       |    |    |
| Admits (no SD)  | ALOS (no SD) | SD Admits | SD ALOS | "Other" (no SD) | "Other" SD | Total Admits / Days | Admits (no SD) | ALOS (no SD) | SD Admits     | SD ALOS | Total Admits / Days |              |           |                        |    |    |       |       |    |    |         |       |    |    |       |       |    |    |
| FY 2010 Totals  | 1,603        | 21.51     | 1,114   | 3.28            | 27         | 15                  | 2,717 / 38,141 | 553          | 21.30         | 84      | 3.11                | 637 / 12,039 |           |                        |    |    |       |       |    |    |         |       |    |    |       |       |    |    |
| FY 2009 Totals *  | 2,017        | 26.30     | 1,192   | 3.34            | 15         | 9                   | 3,209 / 57,026 | 538          | 25.00         | 121     | 3.30                | 659 / 13,847 |           |                        |    |    |       |       |    |    |         |       |    |    |       |       |    |    |

\* Previous fiscal year totals pull from similar date ranges as the current fiscal year. For example, if the current fiscal year only includes quarters 1 and 2, the previous fiscal year totals will only pull quarters 1 and 2.

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**Conclusions for Q1:**

- All admissions were greater in AAPS Funded for each modality except Adolescent Level III.5 which is higher for Medicaid. This trend held throughout FY 2008 and FY 2009.
- After pulling out Social Detox (AAPS) and Hospital based services (Medicaid), the Q1 LOS of AAPS was 22.92 and for Medicaid was 23.13. That is a difference of only 0.21.
- Q1 LOS of Social Detox (AAPS) was 3.22 and for Hospital based services (Medicaid) was 3.29.
- The modality with the highest utilization in both funding sources is Level III.3 Intermediate Adult Residential when Social Detox is excluded.
- In examining the detail by region and funding source table, it is noted that the region with the greatest number of admissions for Q1 both AAPS and Medicaid is the Kansas City Region.
- The Region with the *shortest* LOS (minus detox and hospital based services) for Q1 AAPS was the Wichita Region (19.17) and for Q1 Medicaid was also the Wichita Region (20.65).
- The Region with the *longest* LOS (minus detox and hospital based services) for Q1 AAPS was the Kansas City Region (26.59) and for Q1 Medicaid was the Southeast Region (26.72).
- In comparing 2009 to 2010 YDT that contains both Q1 and Q2, there is a decrease in both total days and admits in both funding sources from 2009 to 2010 in the higher levels of care.

**Preliminary Recommendations to Committee:**

- It is recommended to the Committee that data trending continue and reporting on all objectives be included in this report. Trending should continue to contain year to year (YTY) comparisons.
- It is further recommended that this aggregate analysis and the ValueOptions report is shared at the Regional QI meetings and posted on the ValueOptions website.

**Date Presented to SQC:** 2/4/2010

**BY:** Kim Brown

**Recommendations from the Committee for action:** Committee concurs with QI recommendations made.

**Person Responsible to follow-up and date due:** Kim Brown Due: 5/6/2010