Rate Study for Crisis Services

Draft Rate Models

- prepared for -

Maine Department of Health and Human Services

- prepared by -

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November 22, 2022

Crisis Residential

| | Unit of Service | Day |
|-----------------------------------|---|-----------------------------|
| | - MHRT I Hourly Wage - Benefit Rate (as a percent of wages) Hourly Staff Cost Before Productivity Adj. (wages + benefits) | \$20.40 33.8% \$27.30 |
| efits | Productivity Assumptions Total Hours | 40.00 |
| Ben | - Employer and One-on-One Supervision Time | 1.32 |
| pur | - Training - Paid Time Off | 0.96 |
| ses s | - Paid Time Off "Billable" Hours | 3.85 33.87 |
| Wag | Productivity Adjustment | 1.18 |
| MHRT I Wages and Benefits | Staff Cost per Direct Service Hour | \$32.21 |
| ₹ | Weekly Staffing | |
| | - Staff Hours per Bed During Daytime Hours (1:2 for 16 hours) | 56.00 |
| | - Staff Hours per Bed During Overnight Hours (1:3 for 8 hours) Weekly MHRT I Staff Hours per Bed | 18.67 74.67 |
| | · · | |
| S | Weekly MHRT I Staff Cost per Bed | \$2,405.12 |
| efit | Clinical Support and Supervision | |
| Ben | - Hourly Wage | \$32.43 25.2% |
| pur | - Benefit Rate (as a percent of wages) Weekly Cost of Wages and Benefits per Clinician | \$1,624.09 |
| Ses ? | - Number of Beds per Clinician | 6.0 |
| Vag | Weekly Cost of Wages and Benefits per Bed | \$270.68 |
| aff 1 | On-Call Psychiatric Support | |
| l St | - Annual Psychiatrist On-Call Cost per Bed | \$1,500.00 |
| nica | Weekly Cost of Psychiatrist per Bed | \$28.85 |
| Clinical Staff Wages and Benefits | Weekly Clinical Staff Cost per Bed | \$299.53 |
| Mileage | - Amount per Mile | \$0.625 |
| lilea | - Allocated Weekly Miles per Bed | 50 |
| 2 | Weekly Mileage Cost per Bed | \$31.25 |
| Admin. and Prog. Support | Weekly Cost per Bed Before Admin. And Support | \$2,735.90 |
| Admin. and rog. Suppor | - Program Support Rate | 15.0% |
| dmi | Program Support Cost per Bed per Week - Administrative Rate | \$586.26 15.0% |
| A | - Administrative Rate Administrative Cost per Bed per Week | \$586.26 |
| | | |
| | Total Weekly Cost per Bed | \$3,908.42 |
| | - Average Occupancy (percentage of days bed is occupied) Rate per Member per Day | 82.5% \$676.78 |
| | rate per member per Day | φυ/υ./ο |

Rate Study for Crisis Services

Appendices of Supporting Documentation for Draft Rate Models

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Appendix A: Wage Assumptions
Wage Data for Select Job Classifications that Include Duties Related to Waiver Service Job Requirements

| BLS Code and Title | | | Typical On-The- Job Training To | Bureau of Labor Statistics Wages (May 2021) | | | | |
|---|-----------------|--------------|------------------------------------|--|---------------|---------------|---------------|---------------|
| | Requirement | Experience | Attain Competency | 10th %-ile | 25th %-ile | 50th %-ile | 75th %-ile | 90th %-ile |
| 11-9151 Social and community service managers | Bachelor's | Under 5 yrs. | None | \$22.40 | \$23.68 | \$29.45 | \$36.46 | \$41.34 |
| 19-3033 Clinical and counseling psychologists | Not pub. | Not pub. | Not pub. | \$27.41 | \$30.84 | \$36.38 | \$50.86 | \$76.50 |
| 19-3034 School psychologist | Not pub. | Not pub. | Not pub. | \$29.84 | \$34.73 | \$37.61 | \$39.61 | \$49.80 |
| 21-1012 Educational/ voc./ school counselors | Master's | None | None | \$18.48 | \$22.62 | \$24.16 | \$30.51 | \$37.67 |
| 21-1015 Rehabilitation counselors | Master's | None | None | \$17.59 | \$18.68 | \$23.41 | \$29.73 | \$0.00 |
| 21-1018 Subs. use/ behav. disorder/ mntl. hlth couns. | Bachelor's | None | None | \$14.83 | \$21.62 | \$23.54 | \$31.44 | \$48.10 |
| 21-1021 Child/ family/ school social workers | Bachelor's | None | None | \$22.73 | \$25.26 | \$28.37 | \$30.26 | \$37.89 |
| 21-1022 Healthcare social workers | Master's | None | Intern/ resident | \$22.80 | \$23.58 | \$29.28 | \$30.55 | \$37.34 |
| 21-1023 Mental health/ sub. abuse social work | Master's | None | Intern/ resident | \$18.77 | \$22.70 | \$28.55 | \$30.52 | \$38.36 |
| 21-1091 Health education specialist | Bachelor's | None | None | \$18.48 | \$22.69 | \$23.86 | \$30.98 | \$39.06 |
| 21-1093 Social and human service assistants | High School | None | Short-term OTJ | \$14.64 | \$17.59 | \$18.33 | \$21.64 | \$23.15 |
| 21-1094 Community health workers | High School | None | Short-term OTJ | \$17.74 | \$18.62 | \$23.11 | \$28.33 | \$30.76 |
| 29-1051 Pharmacists | Doctoral/ prof. | None | None | \$47.26 | \$58.40 | \$61.87 | \$73.31 | \$78.54 |
| 29-1071 Physician assistants | Master's | None | None | \$47.41 | \$48.88 | \$58.40 | \$62.54 | \$77.54 |
| 29-1141 Registered nurses | Bachelor's | None | None | \$28.68 | \$29.49 | \$36.08 | \$37.82 | \$47.49 |
| 29-1171 Nurse practitioners | Master's | None | None | \$46.17 | \$48.19 | \$57.48 | \$61.87 | \$64.98 |
| 29-1215 Family medicine physicians | Doctoral/ prof. | None | Intern/ resident | \$49.48 | \$74.25 | \$97.21 | 1/ | 1/ |
| 29-1216 General internal medicine physicians | Doctoral/ prof. | None | Intern/ resident | \$58.73 | \$94.00 | 1/ | 1/ | 1/ |
| 29-1223 Psychiatrist | Doctoral/ prof. | None | Intern/ resident | \$84.02 | 1/ | 1/ | 1/ | 1/ |
| 29-2053 Psychiatric technicians | Postsec. award | Under 5 yrs. | Short-term OTJ | \$14.03 | \$14.08 | \$14.13 | \$17.70 | \$18.74 |
| 29-2061 Lic. practical and lic. vocational nurses | Postsec. award | None | None | \$17.80 | \$22.41 | \$23.03 | \$28.28 | \$29.56 |
| 31-1120 Home health and personal care aides | High School | None | Short-term OTJ | \$13.65 | \$13.94 | \$14.28 | \$17.23 | \$18.03 |
| 31-1131 Nursing assistants | Postsec. award | None | None | \$13.99 | \$14.24 | \$17.33 | \$17.86 | \$18.63 |
| 31-1133 Psychiatric aides | High School | None | Short-term OTJ | \$14.47 | \$14.58 | \$17.96 | \$20.30 | \$23.02 |
| 31-9092 Medical assistants | Postsec. award | None | None | \$14.43 | \$17.61 | \$18.20 | \$21.77 | \$23.03 |
| 39-1022 First-line supervisors of pers. svc. workers | Not pub. | Not pub. | Not pub. | \$14.44 | \$17.55 | \$18.40 | \$21.89 | \$23.36 |
| 39-9032 Recreation workers | High School | None | Short-term OTJ | \$12.51 | \$13.82 | \$14.35 | \$17.98 | \$22.39 |
| 39-9041 Residential advisors | High School | None | Short-term OTJ | \$12.22 | \$14.27 | \$15.15 | \$22.04 | \$29.70 |

 $^{1/\,} The\ BLS$ does not publish wages that exceed \$100 per hour (\$208,000 per year).

Appendix A: Wage Assumptions Wage Inflation Factor Determination

Adjustment for Wage Inflation 1

| BLS Dataset Month | May-21 |
|---|--------|
| # of Months from May 2021 to May 2022 | 12 |
| Assumed Wage Inflation for May 2021 to May 2022 | 9.00% |
| # of Months from May 2022 to July 2023 | 14 |
| Assumed Annual Wage Inflation for May 2022 to July 2023 | 3.60% |
| | |
| Total Inflation Factor | 13.59% |

¹Inflation amounts based on one-year (2020 - 2021) and ten-year (2011 - 2021) compound annual growth rate for net earnings in Maine; Source Bureau of Economic Analysis: https://apps.bea.gov/regional/bearfacts/action.cfm

Appendix A: Wage Assumptions BLS Wage Data With Inflation Adjustments

| BLS Code and Title | Typical Typical On-The- | | | | Bureau of Labor Statistics Wages (May 2021 with Inflation Adjustment) | | | | |
|---|--------------------------|--------------------|---------------------------|--------------|--|--------------------|-------------------|---------------|--|
| | Education Requirement | Work Experience | Job Training To Attain | (May 10th | 2021 Wit 25th | n inilatio 50th | n Aajusti 75th | ment) 90th | |
| | _ | | Competency | %-ile | %-ile | %-ile | %-ile | %-ile | |
| 11-9151 Social and community service managers | Bachelor's | Under 5 yrs. | None | \$25.44 | \$26.90 | \$33.45 | \$41.41 | \$46.96 | |
| 19-3033 Clinical and counseling psychologists | Not pub. | Not pub. | Not pub. | \$31.14 | \$35.03 | \$41.32 | \$57.77 | \$86.90 | |
| 19-3034 School psychologist | Not pub. | Not pub. | Not pub. | \$33.90 | \$39.45 | \$42.72 | \$44.99 | \$56.57 | |
| 21-1012 Educational/ voc./ school counselors | Master's | None | None | \$20.99 | \$25.69 | \$27.44 | \$34.66 | \$42.79 | |
| 21-1015 Rehabilitation counselors | Master's | None | None | \$19.98 | \$21.22 | \$26.59 | \$33.77 | \$0.00 | |
| 21-1018 Subs. use/ behav. disorder/ mntl. hlth couns. | Bachelor's | None | None | \$16.85 | \$24.56 | \$26.74 | \$35.71 | \$54.64 | |
| 21-1021 Child/ family/ school social workers | Bachelor's | None | None | \$25.82 | \$28.69 | \$32.23 | \$34.37 | \$43.04 | |
| 21-1022 Healthcare social workers | Master's | None | Intern/ resident | \$25.90 | \$26.78 | \$33.26 | \$34.70 | \$42.41 | |
| 21-1023 Mental health/ sub. abuse social work | Master's | None | Intern/ resident | \$21.32 | \$25.78 | \$32.43 | \$34.67 | \$43.57 | |
| 21-1091 Health education specialist | Bachelor's | None | None | \$20.99 | \$25.77 | \$27.10 | \$35.19 | \$44.37 | |
| 21-1093 Social and human service assistants | High School | None | Short-term OTJ | \$16.63 | \$19.98 | \$20.82 | \$24.58 | \$26.30 | |
| 21-1094 Community health workers | High School | None | Short-term OTJ | \$20.15 | \$21.15 | \$26.25 | \$32.18 | \$34.94 | |
| 29-1051 Pharmacists | Doctoral/ prof. | None | None | \$53.68 | \$66.34 | \$70.28 | \$83.27 | \$89.21 | |
| 29-1071 Physician assistants | Master's | None | None | \$53.85 | \$55.52 | \$66.34 | \$71.04 | \$88.08 | |
| 29-1141 Registered nurses | Bachelor's | None | None | \$32.58 | \$33.50 | \$40.98 | \$42.96 | \$53.94 | |
| 29-1171 Nurse practitioners | Master's | None | None | \$52.44 | \$54.74 | \$65.29 | \$70.28 | \$73.81 | |
| 29-1215 Family medicine physicians | Doctoral/ prof. | None | Intern/ resident | \$56.20 | \$84.34 | \$110.42 | 1/ | 1/ | |
| 29-1216 General internal medicine physicians | Doctoral/ prof. | None | Intern/ resident | \$66.71 | \$106.77 | 1/ | 1/ | 1/ | |
| 29-1223 Psychiatrist | Doctoral/ prof. | None | Intern/ resident | \$95.44 | 1/ | 1/ | 1/ | 1/ | |
| 29-2053 Psychiatric technicians | Postsec. award | Under 5 yrs. | Short-term OTJ | \$15.94 | \$15.99 | \$16.05 | \$20.11 | \$21.29 | |
| 29-2061 Lic. practical and lic. vocational nurses | Postsec. award | None | None | \$20.22 | \$25.46 | \$26.16 | \$32.12 | \$33.58 | |
| 31-1120 Home health and personal care aides | High School | None | Short-term OTJ | \$15.51 | \$15.83 | \$16.22 | \$19.57 | \$20.48 | |
| 31-1131 Nursing assistants | Postsec. award | None | None | \$15.89 | \$16.18 | \$19.69 | \$20.29 | \$21.16 | |
| 31-1133 Psychiatric aides | High School | None | Short-term OTJ | \$16.44 | \$16.56 | \$20.40 | \$23.06 | \$26.15 | |
| 31-9092 Medical assistants | Postsec. award | None | None | \$16.39 | \$20.00 | \$20.67 | \$24.73 | \$26.16 | |
| 39-1022 First-line supervisors of pers. svc. workers | Not pub. | Not pub. | Not pub. | \$16.40 | \$19.94 | \$20.90 | \$24.86 | \$26.53 | |
| 39-9032 Recreation workers | High School | None | Short-term OTJ | \$14.21 | \$15.70 | \$16.30 | \$20.42 | \$25.43 | |
| 39-9041 Residential advisors | High School | None | Short-term OTJ | \$13.88 | \$16.21 | \$17.21 | \$25.04 | \$33.74 | |

^{1/} The BLS does not publish wages that exceed \$100 per hour (\$208,000 per year).

Appendix A: Wage Assumptions Development of Job Requirements (Using BLS Job Codes) by Service

| MHRT - Residential |
|---|
| Clinical Support and Supervision - Residential |

BLS Code and Title

| | le and Title | | |
|---------|---|------|------|
| 11-9151 | Social and community service managers | | |
| 19-3033 | Clinical and counseling psychologists | | |
| 19-3034 | School psychologist | | |
| 21-1012 | Educational/voc./ school counselors | | |
| 21-1015 | Rehabilitation counselors | | |
| 21-1018 | Subs. use/ behav. disorder/ mntl. hlth couns. | | |
| 21-1021 | Child/ family/ school social workers | | |
| 21-1022 | Healthcare social workers | | |
| 21-1023 | Mental health/ sub. abuse social work | | 100% |
| 21-1091 | Health education specialist | | |
| 21-1093 | Social and human service assistants | | |
| 21-1094 | Community health workers | | |
| 29-1051 | Pharmacists | | |
| 29-1071 | Physician assistants | | |
| 29-1141 | Registered nurses | | |
| 29-1171 | Nurse practitioners | | |
| 29-1215 | Family medicine physicians | | |
| 29-1216 | General internal medicine physicians | | |
| 29-1223 | Psychiatrist | | |
| 29-2053 | Psychiatric technicians | | |
| 29-2061 | Lic. practical and lic. vocational nurses | | |
| 31-1120 | Home health and personal care aides | | |
| 31-1131 | Nursing assistants | | |
| 31-1133 | Psychiatric aides | 100% | |
| 31-9092 | Medical assistants | | |
| 39-1022 | First-line supervisors of pers. svc. workers | | |
| 39-9032 | Recreation workers | | |
| 39-9041 | Residential advisors | | |
| | | 100% | 100% |
| | | | |

Appendix A: Wage Assumptions Rate Model

| MHRT - Residential Clinical Support and Supervision - Residential |
|---|
|---|

Rate Model¹

| 10th %ile | \$16.44 | \$21.32 |
|-----------|---------|---------|
| 25th %ile | \$16.56 | \$25.78 |
| 50th %ile | \$20.40 | \$32.43 |
| 75th %ile | \$23.06 | \$34.67 |
| 90th %ile | \$26.15 | \$43.57 |

¹Rate model wage assumptions are bolded, and have been set at the BLS-reported median (50th percentile) hourly wage adjusted for wage growthbased on the assumed job requirements:

⁻ Wage assumptions that fall under the required 125% of minimum wage will be moved to 125% of the January 2023 minimum wage

Appendix B: Benefits Assumptions to Establish Benefit Rates

| | % of | Employee | s with | % of 1 | Employee | s Who | Benefit Lo | evel for Par | ticipating | Effect | ive Benefi | t Level |
|-------------------------------|-------------------|----------|--------|-------------------|-----------|----------|-------------------|--------------|------------|-------------------|------------|----------|
| | | Access | | Receive | ('Partici | pation') | Employees | | | (4 | Accounts f | or |
| | BLS | Rate | Model | BLS | Rate | Model | BLS | Rate I | Model | BLS | Rate | |
| | Data ¹ | Prof. | Para- | Data ¹ | Prof. | Para- | Data ¹ | Prof. | Para- | Data ¹ | Prof. | Para- |
| | | | prof. | | | prof. | | | prof. | | | prof. |
| Mandatory Benefi | ts | | | | | | | | | | | |
| FICA ² | | | | | | | | | | | 7.65% | 7.65% |
| Federal UI ³ | | | | | | | | | | | 0.60% | 0.60% |
| State UI ⁴ | | | | | | | | | | | 2.45% | 2.45% |
| Workers' Comp. | | | | | | | | | | | 3.00% | 3.00% |
| Paid Time Off ⁵ | | | | | | | | | | | | |
| Holidays | 80% | 100% | 100% | 80% | 100% | 100% | 8.0 | 10.0 | 10.0 | 6.4 | 10.0 | 10.0 |
| Vacation Leave | 76% | 1000/ | 1000/ | 76% | 1000/ | 1000/ | 10.0 | 20.0 | 15.0 | 7.6 | 20.0 | 15.0 |
| Sick Leave | 85% | 100% | 100% | 85% | 100% | 100% | 6.0 | 20.0 | 15.0 | 5.1 | 20.0 | 15.0 |
| Total | | | | | | | 24.0 | 30.0 | 25.0 | 19.1 | 30.0 | 25.0 |
| Health Insurance ⁶ | | | | | | | | | | | | |
| Employee Only | | | | | 42.4% | 42.4% | \$507.89 | \$525.00 | \$525.00 | | | |
| Employee + One | | | | | 13.7% | 13.7% | | \$900.00 | \$900.00 | | | |
| Family | | | | | 18.9% | 18.9% | \$1,322.52 | \$1,300.00 | \$1,300.00 | | | |
| Total | 71% | 100% | 100% | 47% | 75.0% | 75.0% | | | | | \$591.34 | \$591.34 |
| Other Benefits ⁷ | | | | | | | | | | | | |
| | | 100% | 100% | | 100% | 100% | | \$200.00 | \$200.00 | | \$200.00 | \$200.00 |

Notes

¹BLS' 2021 National Compensation Survey (https://www.bls.gov/ncs/ebs/benefits/2021/employee-benefits-in-the-united-states-march-2021.pdf); data ²Combined Social Security tax rate of 6.2% and Medicare tax rate of 1.45%

³Applies to first \$7,000 in wages

⁴Rate model assumption reflects the tax rate assessed to new employers (inclusive of the 0.07 percent Competitive Skills Scholarship Fund assessment ⁵BLS data for vacation and sick leave is based on national data for employees with 1-5 years of experience (average for those with 6-10 experience is 15 days of vacation and 6 days of sick leave).

⁶In addition to BLS data, the U.S. DHHS' Medical Expenditure Panel Survey data for Maine was reviewed. The average premium across all employers in ⁷BLS provides information for a variety of other benefits that cannot be combined

Appendix C: Productivity Assumptions

| Crisis Residential |
|--------------------|

'Typical Workweek' Without Training and PTO

| Direct services | 37.00 |
|---|-------|
| Coordination and collateral contacts (non-billable) | - |
| Participating in assessments and planning meetings | - |
| Travel time (between members) | - |
| Recordkeeping and reporting | - |
| Employer and one-on-one supervision time | 1.50 |
| Other activities | 1.50 |
| Total | 40.00 |

Annual Hours for Training and PTO

| Training | 50 |
|---------------|-----|
| Paid Time Off | 200 |

Avg. Workweek Adjusted for Training and PTO

| Direct services | 32.55 |
|---|-------|
| Coordination and collateral contacts (non-billable) | - |
| Participating in assessments and planning meetings | - |
| Travel time (between members) | - |
| Recordkeeping and reporting | - |
| Employer and one-on-one supervision time | 1.32 |
| Other activities | 1.32 |
| Training | 0.96 |
| Paid time off | 3.85 |
| Total | 40.00 |