Rate Study for Mobile Crisis Intervention Services

Draft Rate Models

- prepared for -

Maine Department of Health and Human Services

- prepared by -

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Crisis Intervention Encounter

		2-Person	1-Person
	Unit of Service	Encounter	Encounter
pı	- MHRT/CSP Hourly Wage	\$28.64	\$28.64
MHRT/CSP Wages and Benefits (First Staff)	- Benefit Rate (as a percent of wages)	27.2%	27.2%
/age st S1	Annual MHRT/CSP Wage and Benefit Cost	\$75,774.57	\$75,774.57
P W (Fir	Annual Work Hours	2,080	2,080
/CS fits	- Percentage of Hours Allocated to Assessments (without travel) Hours Attributed to Assessments (including non-billable activities)	55% 1,144	55% 1,144
IRT ene	- Number of Annual Assessments per FTE		
MF	•	150	150
	MHRT/CSP Staff Cost per Assessment	\$277.84	\$277.84
SP	- Square Feet of Office Space - Annual Cost per Square Foot	100 \$16.00	100 \$16.00
T/C Sp	Annual Cost of Office Space	\$1,600.00	\$1,600.00
MHRT/CSP Office Space	Percentage of Office Space Attributable to Assessment Activities	55%	55%
ΣÕ	MHRT/CSP Office Space Cost per Assessment	\$5.87	\$5.87
р		\$20.46	\$3.07
s an aff)	- Peer Specialist Hourly Wage - Benefit Rate (as a percent of wages)	33.8%	
age d St	Annual Peer Specialist Wage and Benefit Cost	\$56,941.00	
t W	Annual Work Hours	2,080	
ialis (Se	- Percentage of Hours Allocated to Assessments (without travel)	55%	
peci	Hours Attributed to Assessments (including non-billable activities)	1,144	
Peer Specialist Wages and Benefits (Second Staff)	- Number of Annual Assessments per FTE	150	
Pe E	Peer Specialist Staff Cost per Assessment	\$208.78	
ist e	- Square Feet of Office Space	100	
ciali	- Annual Cost per Square Foot	\$16.00	
Spe ce S	Annual Cost of Office Space	\$1,600.00	
Peer Specialist Office Space	Percentage of Office Space Attributable to Assessment Activities	55%	
Ь	Peer Specialist Office Space Cost per Assessment	\$5.87	
ĩts	Clinical Supervision		
enef	- Clinical Supervisor Hourly Wage	\$34.27	\$34.27
d B	- Benefit Rate (as a percent of wages) Annual Clinical Supervisor Wage and Benefit Cost	24.4% \$88,674.31	24.4% \$88,674.31
ages and Benefits			
age	Annual Work Hours - Percentage of Hours Allocated to Assessments	2,080 55%	2,080 55%
1 W	Hours Attributed to Assessments	1,144	1,144
Iodo	- Number of MHRT/CSPs or Peers per Supervisor	5.0	5.0
Sup	Number of Annual Assessments per Supervisor	750	750
and	Clinical Supervisor Cost per Responding Staff	\$65.03	\$65.03
ion	Clinical Supervisor Cost per Assessment	\$130.06	\$65.03
rvis	Clinical Support		
nbe	- Annual On-Call Cost of Clinical Supervisor (at \$150 per week)	\$7,800.00	\$7,800.00
al S	Clinical Supervisor On-Call Cost per Assessment - Annual Psychiatrist Support Cost per Responding Team	\$10.40 \$3,000.00	\$10.40 \$3,000.00
Clinical Supervision and Support W	Psychiatric Support Cost per Assessment	\$20.00	\$20.00
CI	Clinical Supervision and Support Cost per Assessment	\$160.46	\$95.43
40	- Square Feet of Office Space	100	100
Sor	- Annual Cost per Square Foot	\$16.00	\$16.00
Supervisor Office Spac	Annual Cost of Office Space	\$1,600.00	\$1,600.00
Supervisor Office Space	Percentage of Office Space Attributable to Assessment Activities	55%	55%
	Clinical Supervisor Office Space Cost per Assessment	\$1.17	\$1.17

Crisis Intervention Encounter

		2-Person	1-Person
	Unit of Service	Encounter	Encounter
Wages	- Dispatch Coordination (MHRT/CSP) Hourly Wage	\$28.64	\$28.64
Wa	- Benefit Rate (as a percent of wages)	27.2%	27.2%
	Annual Dispatch Coordinator Wage and Benefit Cost	\$75,774.57	\$75,774.57
ordinato Benefits	Annual Work Hours	2,080	2,080
ord Be	- Percentage of Hours Allocated to Assessments (without travel)	100%	100%
ı Co and	Hours Attributed to Assessments (including non-billable activities)	2,080	2,080
tch	- Number of MHRT/CSPs or Peers per Dispatch Coordinator	3.3	3.3
spa	- Number of Annual Assessments per Dispatcher	495	495
Di	Dispatch Coordination Staff Cost per Assessment	\$153.08	\$153.08
rd.	- Square Feet of Office Space	100	100
Coord	- Annual Cost per Square Foot	\$16.00	\$16.00
ch (S	Annual Cost of Office Space	\$1,600.00	\$1,600.00
Dispatch Coord. Office Space	Percentage of Office Space Attributable to Assessment Activities	100%	100%
Ω	Dispatch Coordinator Office Space Cost per Assessment	\$3.23	\$3.23
nd ort	Cost per Encounter Before Admin. and Program Support	\$816.30	\$536.62
in. and Support	- Program Support Rate	15.0%	15.0%
	Program Support Cost per Assessment	\$174.92	\$114.99
Admin. and Prog. Suppor	- Administrative Rate	15.0%	15.0%
, A	Administrative Cost per Assessment	\$174.92	\$114.99
	Total Cost per Assessment	\$1,166.14	\$766.60

Crisis Intervention Travel/Aftercare

		MHRT/CSP	Peer
	Unit of Service	15 Minute	15 Minute
	- Hourly Wage	\$28.64	\$20.46
	- Benefit Rate (as a percent of wages)	27.2%	33.8%
	Hourly Staff Cost Before Productivity Adj. (wages + benefits)	\$36.43	\$27.38
	Productivity Assumptions		
īts.	Total Hours	18.00	18.00
nef	- Providing nonbillable aftercare supports	1.01	1.03
Be	- Coordination and collateral contacts (non-billable)	0.81	0.82
and	- Recordkeeping and Reporting	1.21	1.24
Wages and Benefits	- Employer and One-on-One Supervision Time	0.61	0.62
Wag	- Other Activities/ Downtime	0.81	0.82
	- Training	1.15	1.25
	- Paid Time Off "Billable" Hours	2.31 10.09	1.92
	Productivity Adjustment	1.78	10.30 1.75
-	Staff Cost After Productivity Adj. per Billable Hour	\$64.85	\$47.92
ge	- Number of Miles Traveled per Week	200	200
Mileage	- Amount per Mile	\$0.670	\$0.670
\mathbf{Z}	Weekly Mileage Cost	\$134.00	\$134.00
	Mileage Cost per Billable Hour	\$13.28	\$13.01
ace	- Square Feet of Office Space	100	100
Office Space	- Annual Cost per Square Foot	\$16.00	\$16.00
ice	Annual Cost of Office Space	\$1,600.00	\$1,600.00
Off	- Percent of Cost Allocated to Aftercare	45%	45%
-	Office Space Cost per Billable Hour	\$1.37	\$1.34
or its	- Hourly Wage	\$34.27	\$34.27
vis	- Benefit Rate (as a percent of wages)	24.4%	24.4%
ıpeı I Be	Weekly Cost of Wages and Benefits per Clinical Supervisor	\$1,705.28	\$1,705.28
al Sı s anc	- Percent of Cost Allocated to Aftercare	45%	45%
Clinical Supervisor Wages and Benefits	- Number of MHRT/CSPs per Supervisor	5.0	5.0
0 ×	Clinical Supervisor Cost per Billable Hour	\$15.21	\$14.90
Clinical Super. Office Space	- Square Feet of Office Space	100	100
Sup	- Annual Cost per Square Foot	\$16.00	\$16.00
sal s	Annual Cost of Office Space	\$1,600.00	\$1,600.00
ini,	- Percent of Cost Allocated to Aftercare	45%	45%
5	Clinical Supervisor Office Space Cost per Billable Hour	\$0.27	\$0.27
Admin. and Prog. Support	Cost per Billable Hour Before Admin. and Program Support	\$94.98	\$77.44
л. ал upp	- Program Support Rate	15.0%	15.0%
lmir 3. S	Program Support Cost per Billable Hour	\$20.35	\$16.59
Ad ² rog	- Administrative Rate	15.0%	15.0%
	Administrative Cost per Billable Hour	\$20.35	\$16.59
	Total Cost per Billable Hour	\$135.68	\$110.62
	Rate per 15 Minutes	\$33.92	\$27.66

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Appendices of Supporting Documentation for Draft Rate Models

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January 11, 2024

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

BLS Code and Title	Typical Education	Typical Work	Typical On-The- Job Training To	Bureau of Labor Statistics Wages (May 2022)				
	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	\$22.91	\$27.29	\$31.35	\$37.22	\$44.73
19-3033 Clinical and counseling psychologists	Not pub.	Not pub.	Not pub.	\$25.13	\$31.12	\$41.32	\$62.58	\$88.00
19-3034 School psychologist	Not pub.	Not pub.	Not pub.	\$36.48	\$38.13	\$42.57	\$50.14	\$52.39
21-1012 Educational/ voc./ school counselors	Master's	None	None	\$18.68	\$21.95	\$26.51	\$32.13	\$37.82
21-1015 Rehabilitation counselors	Master's	None	None	\$17.66	\$19.38	\$23.82	\$27.59	\$42.07
21-1018 Subs. use/ behav. disorder/ mntl. hlth couns.	Bachelor's	None	None	\$19.22	\$22.39	\$26.20	\$35.16	\$54.53
21-1021 Child/ family/ school social workers	Bachelor's	None	None	\$22.83	\$26.35	\$29.27	\$32.36	\$37.36
21-1022 Healthcare social workers	Master's	None	Intern/ resident	\$22.74	\$25.27	\$29.10	\$31.63	\$35.70
21-1023 Mental health/ sub. abuse social work	Master's	None	Intern/ resident	\$21.40	\$24.75	\$32.23	\$38.41	\$46.35
21-1091 Health education specialist	Bachelor's	None	None	\$18.94	\$21.76	\$24.97	\$31.51	\$37.84
21-1093 Social and human service assistants	High School	None	Short-term OTJ	\$16.53	\$18.01	\$18.92	\$21.45	\$23.35
21-1094 Community health workers	High School	None	Short-term OTJ	\$17.11	\$19.14	\$21.73	\$28.15	\$29.82
29-1051 Pharmacists	Doctoral/ prof.	None	None	\$49.61	\$57.78	\$64.25	\$69.74	\$77.52
29-1071 Physician assistants	Master's	None	None	\$48.59	\$51.61	\$61.02	\$65.47	\$75.66
29-1141 Registered nurses	Bachelor's	None	None	\$29.41	\$31.40	\$37.18	\$40.27	\$48.52
29-1171 Nurse practitioners	Master's	None	None	\$47.67	\$50.22	\$53.95	\$62.79	\$68.52
29-1215 Family medicine physicians	Doctoral/ prof.	None	Intern/ resident	\$51.86	\$74.25	\$97.21	1/	1/
29-1216 General internal medicine physicians	Doctoral/ prof.	None	Intern/ resident	\$66.52	\$94.00	1/	1/	1/
29-1223 Psychiatrist	Doctoral/ prof.	None	Intern/ resident	\$98.37	1/	1/	1/	1/
29-2053 Psychiatric technicians	Postsec. award	Under 5 yrs.	Short-term OTJ	\$17.34	\$17.34	\$18.28	\$18.96	\$22.47
29-2061 Lic. practical and lic. vocational nurses	Postsec. award	None	None	\$21.50	\$23.86	\$26.95	\$29.53	\$34.52
31-1120 Home health and personal care aides	High School	None	Short-term OTJ	\$14.21	\$14.83	\$15.91	\$17.32	\$18.77
31-1131 Nursing assistants	Postsec. award	None	None	\$15.28	\$16.61	\$17.63	\$19.41	\$22.30
31-1133 Psychiatric aides 2/	High School	None	Short-term OTJ	\$14.47	\$14.58	\$17.96	\$20.30	\$23.02
31-9092 Medical assistants	Postsec. award	None	None	\$16.92	\$18.13	\$19.59	\$21.83	\$23.41
39-1022 First-line supervisors of pers. svc. workers	Not pub.	Not pub.	Not pub.	\$16.23	\$17.50	\$19.26	\$22.76	\$25.99
39-9032 Recreation workers	High School	None	Short-term OTJ	\$13.54	\$14.43	\$15.63	\$19.53	\$23.07
39-9041 Residential advisors	High School	None	Short-term OTJ	\$14.35	\$15.94	\$18.14	\$21.10	\$28.66

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

^{2/} Values reflect May 2021 dataset as Maine figures for this occupation was masked in May 2022 (likely due to too few reported values).

Appendix A: Wage Assumptions Wage Inflation Factor Determination

Adjustment for Wage Inflation 1

BLS Dataset Month	May-22
# of Months from May 2022 to July 2024	26
Assumed Annual Wage Inflation for May 2022 to July 2024	4.20%
Total Inflation Factor	9.32%

¹Inflation amounts based on ten-year (2012 - 2022) 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	Typical On-The	Bureau of Labor Statistics Wages (May 2022 with Inflation Adjustment)				
	Education Requirement	Work Experience	Job Training To 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	\$25.05	\$29.83	\$34.27	\$40.69	\$48.90
19-3033 Clinical and counseling psychologists	Not pub.	Not pub.	Not pub.	\$27.47	\$34.02	\$45.17	\$68.41	\$96.20
19-3034 School psychologist	Not pub.	Not pub.	Not pub.	\$39.88	\$41.68	\$46.54	\$54.81	\$57.27
21-1012 Educational/ voc./ school counselors	Master's	None	None	\$20.42	\$24.00	\$28.98	\$35.12	\$41.34
21-1015 Rehabilitation counselors	Master's	None	None	\$19.31	\$21.19	\$26.04	\$30.16	\$45.99
21-1018 Subs. use/ behav. disorder/ mntl. hlth couns.	Bachelor's	None	None	\$21.01	\$24.48	\$28.64	\$38.44	\$59.61
21-1021 Child/ family/ school social workers	Bachelor's	None	None	\$24.96	\$28.81	\$32.00	\$35.38	\$40.84
21-1022 Healthcare social workers	Master's	None	Intern/ resident	\$24.86	\$27.63	\$31.81	\$34.58	\$39.03
21-1023 Mental health/ sub. abuse social work	Master's	None	Intern/ resident	\$23.39	\$27.06	\$35.23	\$41.99	\$50.67
21-1091 Health education specialist	Bachelor's	None	None	\$20.71	\$23.79	\$27.30	\$34.45	\$41.37
21-1093 Social and human service assistants	High School	None	Short-term OTJ	\$18.07	\$19.69	\$20.68	\$23.45	\$25.53
21-1094 Community health workers	High School	None	Short-term OTJ	\$18.70	\$20.92	\$23.76	\$30.77	\$32.60
29-1051 Pharmacists	Doctoral/ prof.	None	None	\$54.23	\$63.17	\$70.24	\$76.24	\$84.74
29-1071 Physician assistants	Master's	None	None	\$53.12	\$56.42	\$66.71	\$71.57	\$82.71
29-1141 Registered nurses	Bachelor's	None	None	\$32.15	\$34.33	\$40.65	\$44.02	\$53.04
29-1171 Nurse practitioners	Master's	None	None	\$52.11	\$54.90	\$58.98	\$68.64	\$74.91
29-1215 Family medicine physicians	Doctoral/ prof.	None	Intern/ resident	\$56.69	\$75.39	\$107.29	1/	1/
29-1216 General internal medicine physicians	Doctoral/ prof.	None	Intern/ resident	\$72.72	\$96.52	1/	1/	1/
29-1223 Psychiatrist	Doctoral/ prof.	None	Intern/ resident	\$107.54	1/	1/	1/	1/
29-2053 Psychiatric technicians	Postsec. award	Under 5 yrs.	Short-term OTJ	\$18.96	\$18.96	\$19.98	\$20.73	\$24.56
29-2061 Lic. practical and lic. vocational nurses	Postsec. award	None	None	\$23.50	\$26.08	\$29.46	\$32.28	\$37.74
31-1120 Home health and personal care aides	High School	None	Short-term OTJ	\$15.53	\$16.21	\$17.39	\$18.93	\$20.52
31-1131 Nursing assistants	Postsec. award	None	None	\$16.70	\$18.16	\$19.27	\$21.22	\$24.38
31-1133 Psychiatric aides 2/	High School	None	Short-term OTJ	\$16.48	\$16.61	\$20.46	\$23.13	\$26.22
31-9092 Medical assistants	Postsec. award	None	None	\$18.50	\$19.82	\$21.42	\$23.86	\$25.59
39-1022 First-line supervisors of pers. svc. workers	Not pub.	Not pub.	Not pub.	\$17.74	\$19.13	\$21.06	\$24.88	\$28.41
39-9032 Recreation workers	High School	None	Short-term OTJ	\$14.80	\$15.77	\$17.09	\$21.35	\$25.22
39-9041 Residential advisors	High School	None	Short-term OTJ	\$15.69	\$17.43	\$19.83	\$23.07	\$31.33

^{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/CSP
Clinician/ Clinical Supervisor
Peer Specialist
Dispatch Coordination

BLS Code and Title

	le and Title		1000/		
11-9151	Social and community service managers		100%		
	Clinical and counseling psychologists				
	School psychologist				
21-1012	Educational/ voc./ school counselors			***************************************	
21-1015	Rehabilitation counselors				
21-1018	Subs. use/ behav. disorder/ mntl. hlth couns.	100%			100%
21-1021	Child/ family/ school social workers				
21-1022	Healthcare social workers				
21-1023	Mental health/ sub. abuse social work				
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%	100%	100%

Appendix A: Wage Assumptions Rate Model Assumptions (Using Adjusted BLS Wage Data and Job Requirement Assumptions)

MHRT/CSP
Clinician/ Clinical Supervisor
Peer Specialist
Dispatch Coordination

Rate Model¹

10th %ile	\$21.01	\$25.05	\$16.48	\$21.01
25th %ile	\$24.48	\$29.83	\$16.61	\$24.48
50th %ile	\$28.64	\$34.27	\$20.46	\$28.64
75th %ile	\$38.44	\$40.69	\$23.13	\$38.44
90th %ile	\$59.61	\$48.90	\$26.22	\$59.61

Appendix B: Benefits Assumptions to Establish Benefit Rates

	% of Employees with Access			100000	% of Employees Who Receive ('Participation')		Benefit Level for Participating Employees			Effective Benefit Level (Accounts for			
	BLS	S Rate Model		BLS	BLS Rate Model		BLS Rate Model			BLS	Rate	Model	
	Data ¹	Prof.	Para- prof.	Data ¹	Prof.	Para- prof.	Data ¹	Prof.	Para- prof.	Data ¹	Prof.	Para- prof.	
Mandatory Benefit	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%	100%	100%	76%	100%	100%	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 Intervention Travel/Aftercare - MHRT/CSP	Crisis Intervention Travel/Aftercare - Peer
'Typical Workweek' Without Training and PTO		
Direct services	12.50	12.50
Coordination and collateral contacts (non-billable)	1.00	1.00
Providing nonbillable aftercare supports	1.25	1.25
Recordkeeping and reporting	1.50	1.50
Employer and one-on-one supervision time	0.75	0.75
Other activities/ downtime	1.00	1.00
Total	18.00	18.00
Annual Hours for Training and PTO		
Training	60	65
Paid Time Off	120	100
Avg. Workweek Adjusted for Training and PTO		
Direct services	10.09	10.30
Coordination and collateral contacts (non-billable)	0.81	0.82
Providing nonbillable aftercare supports	1.01	1.03
Recordkeeping and reporting	1.21	1.24
Employer and one-on-one supervision time	0.61	0.62
Other activities/ downtime	0.81	0.82
Training	1.15	1.25
Paid time off	2.31	1.92