

Rate Models for ASAM Level 1

		ASAM 1		ASAM 1		ASAM 1		ASAM 1		ASAM 1		
		Assessment		Assessment		Counseling		Counseling		Peer Support		
Formulas												
Unit of Service		per session	per session	Per 15 Min	Per 45 Min	Per 15 Min	Per 15 Min					
1:1 or Group		1:1	1:1	1:1	Group	Office	Office					
Assumption of Staff Rendering Service for Rate Model		Nurse Practitioner	Nurse Practitioner	Master's Counselor	Master's Counselor	Peer	Peer					
Place of Service		Office	Community	Office	Office	Office	Community					
Current Billing Code		H0001-HF	H0001-U1	H0004-HF	H0005	H0004-HF	H0038					
Counselor Position	Salary of Counselor	(1)	\$61.87	\$61.87	\$34.13	\$34.13	\$22.00	\$22.00				
	Expressed as an Annual Salary	(2) = (1)*2080	\$128,690	\$128,690	\$70,990	\$70,990	\$45,760	\$45,760				
	Employee Benefits Percentage	(3)	29.1%	29.1%	36.9%	36.9%	46.4%	46.4%				
	Hourly Cost with Employee Benefits, before Productivity Assumption	(4) = (1)*(1+(3))	\$79.87	\$79.87	\$46.72	\$46.72	\$32.21	\$32.21				
	<i>Productivity Assumptions</i>											
	Total Hours	(5)	40.00	40.00	40.00	40.00	40.00	40.00	40.00			
	- Travel Time to/from Clients (non-billable)	(6)	0.00	8.00	0.00	0.00	0.00	0.00	8.00			
	- Coordination and Collateral Contacts (non-billable)	(7)	3.00	3.00	3.00	3.00	3.00	3.00	3.00			
	- Participating in Assessments and Planning Meetings	(8)	3.00	3.00	2.00	2.00	2.00	2.00	2.00			
	- Recordkeeping and Reporting	(9)	4.50	4.50	4.50	4.50	2.00	2.00	2.00			
	- One-on-One Time with Supervisor	(10)	0.00	0.00	1.00	1.00	2.00	2.00	2.00			
	- Training	(11)	1.00	1.00	1.00	1.00	2.50	2.50	2.50			
	"Billable" Hours	(12) = (5) - (6)to(11)	28.50	20.50	28.50	28.50	28.50	20.50	20.50			
	Productivity Adjustment	(13) = (5) / (12)	1.40	1.95	1.40	1.40	1.40	1.95	1.95			
Direct Staff Cost After Productivity Adj. per Billable Hour	(14) = (4) * (13)	\$111.82	\$155.75	\$65.41	\$65.41	\$45.09	\$62.81	\$62.81				
Supervisor Position	Salary of Supervisor	(15)			\$43.27	\$43.27	\$38.46	\$38.46				
	Expressed as an Annual Salary	(16) = (15)*2080			\$90,000	\$90,000	\$80,001	\$80,001				
	Employee Benefits Percentage	(17)			33.2%	33.2%	35.0%	35.0%				
	Hourly Cost with Employee Benefits	(18) = (15)*(1+(17))			\$57.63	\$57.63	\$51.93	\$51.93				
	- Hours of Supervision Per Counselor Per Week	(19)			1.0	1.0	2.0	2.0				
	Supervisor Position Cost per Counselor Per Week	(20) = (18) * (19)			\$57.63	\$57.63	\$103.86	\$103.86				
	- Caseload per Counselor	(21)			50.0	50.0	50.0	50.0				
	Supervisor Position Cost per Client per Week	(22) = (20) / (21)			\$1.15	\$1.15	\$2.08	\$2.08				
- Assumption for Client Counseling Hours Per Week	(23)			1.0	1.0	1.0	1.0					
Supervisor Cost per Client per Hour	(24) = (22) / (23)			\$1.15	\$1.15	\$2.08	\$2.08	\$2.08				
Program Support Position	Salary of Support Position	(25)	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00				
	Expressed as an Annual Salary	(26) = (25)*2080	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600	\$41,600				
	Employee Benefits Percentage	(27)	49.1%	49.1%	49.1%	49.1%	49.1%	49.1%				
	Hourly Cost with Employee Benefits	(28) = (25)*(1+(27))	\$29.82	\$29.82	\$29.82	\$29.82	\$29.82	\$29.82				
	- Hours of Support Per Counselor Per Week	(29)	4.0	4.0	4.0	4.0	4.0	4.0				
	Support Cost per Counselor Group Per Week	(30) = (28) * (29)	\$119.28	\$119.28	\$119.28	\$119.28	\$119.28	\$119.28				
	- Caseload per Counselor	(31)	35.0	35.0	35.0	35.0	35.0	35.0				
Support Cost per Client per Week	(32) = (30) / (31)	\$3.41	\$3.41	\$3.41	\$3.41	\$3.41	\$3.41					

Rate Models for ASAM Level 1

Formulas			ASAM 1	ASAM 1	ASAM 1	ASAM 1	ASAM 1	ASAM 1
			Assessment	Assessment	Counseling	Counseling	Peer Support	Peer Support
Unit of Service			per session	per session	Per 15 Min	Per 45 Min	Per 15 Min	Per 15 Min
1:1 or Group			1:1	1:1	1:1	Group	Office	Community
Assumption of Staff Rendering Service for Rate Model			Nurse Practitioner	Nurse Practitioner	Master's Counselor	Master's Counselor	Peer	Peer
Place of Service			Office	Community	Office	Office	Office	Community
Current Billing Code			H0001-HF	H0001-U1	H0004-HF	H0005	H0004-HF	H0038
Pr	- Assumption for Client Counseling Hours Per Week	(33)	1.0	1.0	1.0	1.0	1.0	1.0
	Support Cost per Client per Hour	(34) = (32) / (33)	\$3.41	\$3.41	\$3.41	\$3.41	\$3.41	\$3.41
Direct Staff Office Space	- Square Feet of Office Space for Staff, Expressed per Client	(35)	120	120	120	300	120	120
	- Annual Cost per Square Foot	(36)	\$30.00	\$30.00	\$30.00	\$30.00	\$30.00	\$30.00
	Annual Cost of Office Space	(37) = (35)*(36)	\$3,600.00	\$3,600.00	\$3,600.00	\$9,000.00	\$3,600.00	\$3,600.00
	Office Space Cost per Billable Staff Hour	(38) = (37)/(12)*52wk	\$2.43	\$3.38	\$2.43	\$6.07	\$2.43	\$3.38
Program	Program Costs Per Client Per Service	(39)	\$2.50	\$2.50	\$2.50	\$25.00	\$2.50	\$2.50
	TOTAL STAFF, OFFICE and PROGRAM COSTS	(40) = (14)+(24)+(34)+(38)+(39)	\$120.16	\$165.04	\$74.90	\$101.04	\$55.51	\$74.18
Admin	Assumption for Administrative Expenses	(41)	18.0%	18.0%	18.0%	18.0%	18.0%	18.0%
	Administrative Costs Per Client Per Hour	(42) = (40)*(41)	\$21.63	\$29.71	\$13.48	\$18.19	\$9.99	\$13.35
	Rate Per Client Session or Per Hour	(43)			\$88.38	\$119.23	\$65.50	\$87.53
	Number of Clients	(44)				9		
	Rate Per Client	(45) = (40)+(42)	\$141.79	\$194.75	\$22.10	\$13.25	\$16.38	\$21.88
	Current Rate		\$77.30	\$90.26	\$19.33	\$9.66	\$14.75	\$14.75
	Dollar Difference: Proposed vs Current Rate		\$64.49	\$104.49	\$2.77	\$3.59	\$1.63	\$7.13
	Percent Difference: Proposed vs Current Rate		83.4%	115.8%	14.3%	37.1%	11.0%	48.4%

Rate Model for ASAM Level 2-WM Ambulatory Withdrawal Management, Per Diem
Model Assumes Weekly Staffing for a Caseload of 12 Clients

		<i>Formulas</i>	ASAM 2-WM Ambulatory Withdrawal Management
	Unit of Service Place of Service Current Billing Code		Per Diem Office H0012
Physician (addiction- credentialed)	Salary	(1)	\$96.80
	Expressed as an Annual Salary	(2) = (1)*2080	\$201,343
	Employee Benefits Percentage	(3)	23.8%
	Hourly Cost with Employee Benefits	(4) = (1)*(1+(3))	\$119.82
	Assumption of Hours for Week	(5)	2.00
	Total Costs for Staff Level for Week	(6) = (4)*(5)	\$239.64
Designated Prescriber, Physician	Salary	(7)	\$92.19
	Expressed as an Annual Salary	(8) = (7)*2080	\$191,755
	Employee Benefits Percentage	(9)	24.2%
	Hourly Cost with Employee Benefits	(10) = (7)*(1+(9))	\$114.54
	Assumption of Hours for Week	(11)	2.00
	Total Costs for Staff Level for Week	(12) = (10)*(11)	\$229.08
Designated Prescriber, Physician Assistant	Salary	(13)	\$61.27
	Expressed as an Annual Salary	(14) = (13)*2080	\$127,442
	Employee Benefits Percentage	(15)	29.1%
	Hourly Cost with Employee Benefits	(16) = (13)*(1+(15))	\$79.10
	Assumption of Hours for Week	(17)	4.00
	Total Costs for Staff Level for Week	(18) = (16)*(17)	\$316.41
Registered Nurse	Salary	(19)	\$43.64
	Expressed as an Annual Salary	(20) = (19)*2080	\$90,771
	Employee Benefits Percentage	(21)	33.2%
	Hourly Cost with Employee Benefits	(22) = (19)*(1+(21))	\$58.12
	Assumption of Hours for Week	(23)	168.00
	Total Costs for Staff Level for Week	(24) = (22)*(23)	\$9,764.90
Licensed Practical Nurse	Salary	(25)	\$29.72
	Expressed as an Annual Salary	(26) = (25)*2080	\$61,818
	Employee Benefits Percentage	(27)	39.9%
	Hourly Cost with Employee Benefits	(28) = (25)*(1+(27))	\$41.57

Rate Model for ASAM Level 2-WM Ambulatory Withdrawal Management, Per Diem
Model Assumes Weekly Staffing for a Caseload of 12 Clients

		Formulas	ASAM 2-WM Ambulatory Withdrawal Management
	Unit of Service Place of Service Current Billing Code		Per Diem Office H0012
	Assumption of Hours for Week	(29)	168.00
	Total Costs for Staff Level for Week	(30) = (28)*(29)	\$6,983.96
Peer Recovery Coach	Salary	(31)	\$22.00
	Expressed as an Annual Salary	(32) = (31)*2080	\$45,760
	Employee Benefits Percentage	(33)	46.4%
	Hourly Cost with Employee Benefits	(34) = (31)*(1+(33))	\$32.21
	Assumption of Hours for Week	(35)	28.00
	Total Costs for Staff Level for Week	(36) = (34)*(35)	\$901.88
Behavioral Health Technician	Salary	(37)	\$24.46
	Expressed as an Annual Salary	(38) = (37)*2080	\$50,877
	Employee Benefits Percentage	(39)	44.2%
	Hourly Cost with Employee Benefits	(40) = (37)*(1+(39))	\$35.26
	Assumption of Hours for Week	(41)	56.00
	Total Costs for Staff Level for Week	(42) = (40)*(41)	\$1,974.56
Total Labor	Hours at Facility, Weekly	(43) = (5)+(11)+(17)+(23)+(29)+(35)+(41)	428.00
	Average Hours Per Client Per Week	(44) = (42) / 12	35.7
	Average Hours Per Client Per Day	(45) = (44) / 7	5.1
	Labor Costs at Residential Facility, Weekly	(46) = (6)+(12)+(18)+(24)+(30)+(36)+(42)	\$20,410
	Average Cost Per Client Per Week	(47) = (46) / 12	\$1,701
	Labor Costs Per Client Per Day	(48) = (47) / 7	\$242.98
	FTEs Per Week	(49) = (43) / 40	10.7
	Weighted Average Labor Cost Per Hour	(50) = (46) / (43)	\$47.69
Client Expenses	Client Costs Per Day (includes medical, supplies, other)	(51)	\$10.00
	Weighted Average Labor Cost Per Hour	(52) = (50)	\$47.69
	Total Annual Training Hours Given, All Staff	(53) = (49)*16	171

**Rate Model for ASAM Level 2-WM Ambulatory Withdrawal Management, Per Diem
Model Assumes Weekly Staffing for a Caseload of 12 Clients**

		<i>Formulas</i>	ASAM 2-WM Ambulatory Withdrawal Management
	Unit of Service Place of Service Current Billing Code		Per Diem Office H0012
Program Expenses	Total Annual Training Costs, Staff Time to Attend	(54) = (52)*(53)	\$8,164
	Total Annual Costs to Administer Training	(55)	\$25,000
	Total Annual Costs for Quality Assurance	(56)	\$25,000
	Total Annual Costs for Program Expenses	(57)	\$58,164
	Total Assumed Per Diems Billed in the Year	(58) = 12 * 365	4,380
	Program Costs Per Client Per Day	(59) = (57) / (58)	\$13.28
Non-Administrative	TOTAL LABOR, CLIENT & PROGRAM	(60) = (48)+(51)+(59)	\$266.26
Administrative	Assumption for Administrative Expenses Administrative Costs Per Client Per Day	(61) (62) = (60)*(61)	18.0% \$47.95
Final Rate with Vacancy Assumption	Total Costs Per Client Per Day	(63) = (60)+(62)	\$314.21
	Assumption for Vacancy (1 of 12 slots unfilled each day)	(64)	94.00%
	Imputed Rate to Account for Vacancy	(65) = (63) / (64)	\$334.27
Current Rate			\$334.27
Dollar Difference: Proposed vs Current Rate			\$0.00
Percent Difference: Proposed vs Current Rate			0.0%

Rate Models for ASAM Level 2.1 (Intensive Outpatient) and 2.5 (Partial Hospitalization)

		<i>Formulas</i>		ASAM 2.1	ASAM 2.5	
				IOP - Adult	Partial Hosp	
Unit of Service				Per Diem	Per Diem	
Group Size				8	6	
Licensure of Staff Rendering Service				Licensed	Licensed	
Amount of Service				9 hrs/wk	20+ hrs/wk	
Place of Service				Office	Office	
Current Billing Code				H0015-HQ HK	H0015-HQ HK TG	
Counselor Position	Salary of Counselor	(1)		\$34.13	\$34.13	
	Expressed as an Annual Salary	(2) = (1)*2080		\$70,990	\$70,990	
	Employee Benefits Percentage	(3)		36.9%	36.9%	
	Hourly Cost with Employee Benefits, before Productivity Assumption	(4) = (1)*(1+(3))		\$46.71	\$46.71	
	<i>productivity Assumptions</i>					
	Total Hours	(5)		40.00	40.00	
	- Coordination and Collateral Contacts (non-billable)	(6)		3.00	3.00	
	- Participating in Assessments and Planning Meetings	(7)		1.00	2.00	
	- Recordkeeping and Reporting	(8)		4.50	4.50	
	- One-on-One Time with Supervisor	(9)		2.00	3.00	
	- Training	(10)		1.42	1.42	
	"Billable" Hours	(11) = (5) - (6)to(10)		28.08	26.08	
	Productivity Adjustment	(12) = (5) / (11)		1.42	1.53	
	Direct Staff Cost After Productivity Adj. per Billable Hour	(13) = (4) * (12)		\$66.33	\$71.47	
	- Average Number of Group Hours per Day	(14)		3.00	7.00	
	Direct Staff Cost for Group Services	(15) = (14) * (13)		\$198.99	\$500.29	
	- Clients per Clinician	(16) = group size		8.0	6.0	
	Direct Staff Cost per Client per Day for Group Services	(17) = (15) / (16)		\$24.87	\$83.38	
	- Average Client 1:1 Time per Day	(18)		0.50	0.50	
	Direct Staff Cost per Client per Day for Individual Services	(19) = (13) * (18)		\$33.17	\$35.74	
Direct Staff Cost per Client per Day	(20) = (17)+(18)		\$58.04	\$119.12		
Supervisor Position	Salary of Supervisor	(21)		\$45.98	\$45.98	
	Expressed as an Annual Salary	(22) = (21)*2080		\$95,638	\$95,638	
	Employee Benefits Percentage	(23)		32.6%	32.6%	
	Hourly Cost with Employee Benefits	(24) = (21)*(1+(23))		\$60.96	\$60.96	
	- Hours of Supervision per Counselor per Week	(25)		5.0	5.0	
	Supervisor position Cost per Counselor per Week	(26) = (24) * (25)		\$304.80	\$304.80	
	- Clients per Clinician	(27) = group size		8.0	6.0	
	Supervisor position Cost per Client per Week	(28) = (26) / (27)		\$38.10	\$50.80	

Rate Models for ASAM Level 2.1 (Intensive Outpatient) and 2.5 (Partial Hospitalization)

		Formulas		ASAM 2.1	ASAM 2.5
				IOP - Adult	Partial Hosp
Unit of Service				Per Diem	Per Diem
Group Size				8	6
Licensure of Staff Rendering Service				Licensed	Licensed
Amount of Service				9 hrs/wk	20+ hrs/wk
Place of Service				Office	Office
Current Billing Code				H0015-HQ HK	H0015-HQ HK TG
Supervisor Cost per Client per Day (assume 3 client days/wk)		(29) = (28) / 3		\$12.70	\$16.93
Physician Position	Salary of Physician	(30)		\$96.80	\$96.80
	Expressed as an Annual Salary	(31) = (30)*2080		\$201,344	\$201,344
	Employee Benefits Percentage	(32)		23.8%	23.8%
	Hourly Cost with Employee Benefits	(33) = (30)*(1+(32))		\$119.82	\$119.82
	- Hours per Counselor Group	(34)		1.0	2.0
	Physician Cost per Counselor Group per Week	(35) = (33) * (34)		\$119.82	\$239.64
	- Clients per Clinician	(36) = group size		8.0	6.0
Physician Cost per Client per Week	(37) = (35) / (36)		\$14.98	\$39.94	
Physician Cost per Client per Day (assume 3 client days/wk)		(38) = (37) / 3		\$4.99	\$13.31
Registered Nurse Position	Salary of Registered Nurse	(39)		\$43.64	\$43.64
	Expressed as an Annual Salary	(40) = (39)*2080		\$90,771	\$90,771
	Employee Benefits Percentage	(41)		33.2%	33.2%
	Hourly Cost with Employee Benefits	(42) = (39)*(1+(41))		\$58.12	\$58.12
	- Hours per Counselor Group	(43)		3.0	6.0
	Registered Nurse Cost per Counselor Group per Week	(44) = (42) * (43)		\$174.36	\$348.72
	- Clients per Clinician	(45) = group size		8.0	6.0
Registered Nurse Cost per Client per Week	(46) = (44) / (45)		\$21.80	\$58.12	
Nurse Cost per Client per Day (assume 3 client days/wk)		(47) = (46) / 3		\$7.27	\$19.37
Program Support Position	Salary of Support Position	(48)		\$18.00	\$18.00
	Expressed as an Annual Salary	(49) = (48)*2080		\$37,440	\$37,440
	Employee Benefits Percentage	(50)		52.4%	52.4%
	Hourly Cost with Employee Benefits	(51) = (48)*(1+(50))		\$27.44	\$27.44
	- Hours per Counselor Group	(52)		10.0	12.0
	Support Cost per Counselor Group per Week	(53) = (51) * (52)		\$274.40	\$329.28
	- Clients per Clinician	(54) = group size		8.0	6.0
Support Cost per Client per Week	(55) = (53) / (54)		\$34.30	\$54.88	
Support Cost per Client per Day (assume 3 client days/wk)		(56) = (55) / 3		\$11.43	\$18.29

Rate Models for ASAM Level 2.1 (Intensive Outpatient) and 2.5 (Partial Hospitalization)

		<i>Formulas</i>		ASAM 2.1	ASAM 2.5
				IOP - Adult	Partial Hosp
Unit of Service				Per Diem	Per Diem
Group Size				8	6
Licensure of Staff Rendering Service				Licensed	Licensed
Amount of Service				9 hrs/wk	20+ hrs/wk
Place of Service				Office	Office
Current Billing Code				H0015-HQ HK	H0015-HQ HK TG
Direct Staff Office Space	- Square Feet of Office Space for Staff, Expressed per Client	(57)		120	120
	- Annual Cost per Square Foot	(58)		\$30.00	\$30.00
	Annual Cost of Office Space	(59) = (57)*(58)		\$3,600	\$3,600
	Office Space Cost per Billable Staff Hour	(60) = (59)/(11)*52wk		\$2.47	\$2.65
	- Number of Service Hours per Client per Day	(61)		3.00	7.00
	Office Space Cost per Client per Day	(62) = (60) * (61)		\$7.41	\$18.55
Program	Program Costs per Client per Day	(63)		25.00	35.00
	TOTAL STAFF, OFFICE and PROGRAM COSTS	(64) = (20)+(29)+(38)+(47)+(56)+(62)+(63)		\$126.84	\$240.58
Admin	Assumption for Administrative Expenses	(65)		18.0%	18.0%
	Administrative Costs per Client per Day	(66) = (64)*(65)		\$22.83	\$43.31
	Rate per Client per Day	(67) = (64)+(66)		\$149.68	\$283.89
Current Rate				\$126.79	\$190.18
Dollar Difference: Proposed vs Current Rate				\$22.89	\$93.71
Percent Difference: Proposed vs Current Rate				18.0%	49.3%

Rate Models for SUD Residential Services by ASAM Level 3

Formulas			ASAM 3.1	ASAM 3.3	ASAM 3.5	ASAM 3.7	ASAM 3.7-WM
			Clinically Managed Low-Intensity Residential Treatment	Clinically Managed Population-specific High Intensity Residential Treatment	Clinically Managed High Intensity Residential Treatment	Medically Monitored Inpatient Residential Treatment	Medically Monitored Inpatient Withdrawal Management
Current Billing Code			H2034	H2036-HI	H2036	H2036-TG	H0011
Assumption for Number of Clients			16	16	16	16	16
Physician (addiction-credentialed)	Salary	(1)	\$96.80	\$96.80	\$96.80	\$96.80	\$96.80
	Expressed as an Annual Salary	(2) = (1)*2080	\$201,343	\$201,343	\$201,343	\$201,343	\$201,343
	Employee Benefits Percentage	(3)	23.8%	23.8%	23.8%	23.8%	23.8%
	Hourly Cost with Employee Benefits	(4) = (1)*(1+(3))	\$119.82	\$119.82	\$119.82	\$119.82	\$119.82
	Assumption of Hours for Week	(5)	2.00	2.00	2.00	2.00	10.00
	Total Costs for Staff Level for Week	(6) = (4)*(5)	\$239.64	\$239.64	\$239.64	\$239.64	\$1,198.18
Physician (primary care)	Salary	(7)		\$92.19	\$92.19	\$92.19	\$92.19
	Expressed as an Annual Salary	(8) = (7)*2080		\$191,755	\$191,755	\$191,755	\$191,755
	Employee Benefits Percentage	(9)		24.2%	24.2%	24.2%	24.2%
	Hourly Cost with Employee Benefits	(10) = (7)*(1+(9))		\$114.54	\$114.54	\$114.54	\$114.54
	Total Costs for Staff Level for Week	(12) = (10)*(11)		\$114.54	\$114.54	\$286.35	\$859.04
Physician Assistant	Salary	(13)		\$61.27	\$61.27	\$61.27	\$61.27
	Expressed as an Annual Salary	(14) = (13)*2080		\$127,442	\$127,442	\$127,442	\$127,442
	Employee Benefits Percentage	(15)		29.1%	29.1%	29.1%	29.1%
	Hourly Cost with Employee Benefits	(16) = (13)*(1+(15))		\$79.10	\$79.10	\$79.10	\$79.10
	Total Costs for Staff Level for Week	(18) = (16)*(17)		\$118.65	\$118.65	\$395.51	\$593.27
Psychiatrist	Salary	(19)		\$97.65	\$97.65	\$97.65	\$97.65
	Expressed as an Annual Salary	(20) = (19)*2080		\$203,112	\$203,112	\$203,112	\$203,112
	Employee Benefits Percentage	(21)		23.7%	23.7%	23.7%	23.7%
	Hourly Cost with Employee Benefits	(22) = (19)*(1+(21))		\$120.76	\$120.76	\$120.76	\$120.76
	Total Costs for Staff Level for Week	(24) = (22)*(23)		\$603.82	\$603.82	\$1,207.63	\$1,811.45
Registered Nurse	Salary	(25)		\$43.64	\$43.64	\$43.64	\$43.64
	Expressed as an Annual Salary	(26) = (25)*2080		\$90,771	\$90,771	\$90,771	\$90,771
	Employee Benefits Percentage	(27)		33.2%	33.2%	33.2%	33.2%
	Hourly Cost with Employee Benefits	(28) = (25)*(1+(27))		\$58.12	\$58.12	\$58.12	\$58.12
	Total Costs for Staff Level for Week	(30) = (28)*(29)		\$2,324.98	\$2,324.98	\$3,254.97	\$3,254.97

Rate Models for SUD Residential Services by ASAM Level 3

<i>Formulas</i>			ASAM 3.1	ASAM 3.3	ASAM 3.5	ASAM 3.7	ASAM 3.7-WM
			Clinically Managed Low- Intensity Residential Treatment	Clinically Managed Population- specific High Intensity Residential Treatment	Clinically Managed High Intensity Residential Treatment	Medically Monitored Inpatient Residential Treatment	Medically Monitored Inpatient Withdrawal Management
Current Billing Code			H2034	H2036-HI	H2036	H2036-TG	H0011
Assumption for Number of Clients			16	16	16	16	16
Licensed Practical Nurse	Salary	(31)				\$31.25	\$31.25
	Expressed as an Annual Salary	(32) = (31)*2080				\$65,000	\$65,000
	Employee Benefits Percentage	(33)				38.6%	38.6%
	Hourly Cost with Employee Benefits	(34) = (31)*(1+(33))				\$43.30	\$43.30
	Assumption of Hours for Week	(35)				168.00	168.00
	Total Costs for Staff Level for Week	(36) = (34)*(35)				\$7,273.95	\$7,273.95
Licensed Practitioner	Salary	(37)	\$45.98	\$45.98	\$45.98	\$45.98	\$45.98
	Expressed as an Annual Salary	(38) = (37)*2080	\$95,638	\$95,638	\$95,638	\$95,638	\$95,638
	Employee Benefits Percentage	(39)	32.6%	32.6%	32.6%	32.6%	32.6%
	Hourly Cost with Employee Benefits	(40) = (37)*(1+(39))	\$60.96	\$60.96	\$60.96	\$60.96	\$60.96
	Assumption of Hours for Week	(41)	56.00	112.00	112.00	112.00	112.00
	Total Costs for Staff Level for Week	(42) = (40)*(41)	\$3,413.65	\$6,827.31	\$6,827.31	\$6,827.31	\$6,827.31
Practitioner for referral arrangements	Salary	(43)	\$29.12	\$29.12	\$29.12	\$29.12	\$29.12
	Expressed as an Annual Salary	(44) = (43)*2080	\$60,570	\$60,570	\$60,570	\$60,570	\$60,570
	Employee Benefits Percentage	(45)	39.9%	39.9%	39.9%	39.9%	39.9%
	Hourly Cost with Employee Benefits	(46) = (43)*(1+(45))	\$40.73	\$40.73	\$40.73	\$40.73	\$40.73
	Assumption of Hours for Week	(47)	40.00	40.00	40.00	40.00	40.00
	Total Costs for Staff Level for Week	(48) = (46)*(47)	\$1,629.28	\$1,629.28	\$1,629.28	\$1,629.28	\$1,629.28
Recovery Coach	Salary	(49)	\$23.74				\$23.74
	Expressed as an Annual Salary	(50) = (49)*2080	\$49,379				\$49,379
	Employee Benefits Percentage	(51)	45.2%				45.2%
	Hourly Cost with Employee Benefits	(52) = (49)*(1+(51))	\$34.48				\$34.48
	Assumption of Hours for Week	(53)	112.00				112.00
	Total Costs for Staff Level for Week	(54) = (52)*(53)	\$3,861.57				\$3,861.57
Behavioral Health Technician or Certified Peer (for ASAM 3.1 only, House Manager)	Salary	(55)	\$24.46	\$24.46	\$24.46	\$24.46	\$24.46
	Expressed as an Annual Salary	(56) = (55)*2080	\$50,877	\$50,877	\$50,877	\$50,877	\$50,877
	Employee Benefits Percentage	(57)	44.2%	44.2%	44.2%	44.2%	44.2%
	Hourly Cost with Employee Benefits	(58) = (55)*(1+(57))	\$35.26	\$35.26	\$35.26	\$35.26	\$35.26
	Assumption of Hours for Week	(59)	168.00	168.00	168.00	168.00	168.00

Rate Models for SUD Residential Services by ASAM Level 3

Formulas			ASAM 3.1	ASAM 3.3	ASAM 3.5	ASAM 3.7	ASAM 3.7-WM
			Clinically Managed Low- Intensity Residential Treatment	Clinically Managed Population- specific High Intensity Residential Treatment	Clinically Managed High Intensity Residential Treatment	Medically Monitored Inpatient Residential Treatment	Medically Monitored Inpatient Withdrawal Management
	Current Billing Code		H2034	H2036-HI	H2036	H2036-TG	H0011
	Assumption for Number of Clients		16	16	16	16	16
	Total Costs for Staff Level for Week	(60) = (58)*(59)	\$5,923.69	\$5,923.69	\$5,923.69	\$5,923.69	\$5,923.69
Total Labor	Hours at Residential Facility, Weekly	(61) = (5)+(11)+(17)+(23)+(29)+(35)+(41)+(47)+(53)+(59)	378.00	369.50	369.50	563.50	696.00
	Average Hours Per Client Per Week	(62) = (61) / 16	23.6	23.1	23.1	35.2	43.5
	Average Hours Per Client Per Day	(63) = (62) / 7	3.4	3.3	3.3	5.0	6.2
	Labor Costs at Residential Facility, Weekly	(64) = (6)+(12)+(18)+(24)+(30)+(36)+(42)+(48)+(54)+(60)	\$15,068	\$17,782	\$17,782	\$27,038	\$33,233
	Average Cost Per Client Per Week	(65) = (64) / 16	\$942	\$1,111	\$1,111	\$1,690	\$2,077
	Labor Costs Per Client Per Day	(66) = (65) / 7	\$134.53	\$158.77	\$158.77	\$241.41	\$296.72
	FTEs Per Week	(67) = (61) / 40	9.5	9.2	9.2	14.1	17.4
Weighted Average Labor Cost Per Hour	(68) = (64) / (61)	\$39.86	\$48.12	\$48.12	\$47.98	\$47.75	
Transportation	Federal Mileage Reimbursement Rate	(69)	\$0.56	\$0.56	\$0.56	\$0.56	\$0.56
	Total Miles Driven Per Week	(70)	200	200	200	200	200
	Weekly Transportation Costs, Non Labor	(71) = (69) * (70)	\$112.00	\$112.00	\$112.00	\$112.00	\$112.00
	Driver Salary	(72)	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00
	Expressed as an Annual Salary	(73) = (72)*2080	\$33,280	\$33,280	\$33,280	\$33,280	\$33,280
	Employee Benefits Percentage	(74)	56.6%	56.6%	56.6%	56.6%	56.6%
	Hourly Cost with Employee Benefits	(75) = (72)*(1+(74))	\$25.05	\$25.05	\$25.05	\$25.05	\$25.05
	Assumption of Hours for Week	(76)	40.00	40.00	40.00	40.00	40.00
	Total Transportation Labor for Week	(77) = (75)*(76)	\$1,001.98	\$1,001.98	\$1,001.98	\$1,001.98	\$1,001.98
	Weekly Transportation Costs, Labor + Non Labor	(78) = (71)+(77)	\$1,113.98	\$1,113.98	\$1,113.98	\$1,113.98	\$1,113.98
Average Cost Per Client Per Week	(79) = (78) / 16	\$69.62	\$69.62	\$69.62	\$69.62	\$69.62	
Transportation Costs Per Client Per Day	(80) = (79) / 7	\$9.95	\$9.95	\$9.95	\$9.95	\$9.95	
Weighted Average Labor Cost Per Hour	(81) = (68)	\$39.86	\$48.12	\$48.12	\$47.98	\$47.75	
Total Annual Training Hours Given, All Staff	(82) = (67)*60	567	554	554	845	1044	
Total Annual Training Costs, Staff Time to Attend	(83) = (81)*(82)	\$22,602	\$26,673	\$26,673	\$40,557	\$49,849	

Rate Models for SUD Residential Services by ASAM Level 3

Formulas			ASAM 3.1	ASAM 3.3	ASAM 3.5	ASAM 3.7	ASAM 3.7-WM
			Clinically Managed Low- Intensity Residential Treatment	Clinically Managed Population- specific High Intensity Residential Treatment	Clinically Managed High Intensity Residential Treatment	Medically Monitored Inpatient Residential Treatment	Medically Monitored Inpatient Withdrawal Management
	Current Billing Code		H2034	H2036-HI	H2036	H2036-TG	H0011
	Assumption for Number of Clients		16	16	16	16	16
Program Expenses	Total Annual Costs to Administer Training	(84)	\$42,525	\$41,569	\$41,569	\$63,394	\$78,300
	Total Annual Costs for Quality Assurance	(85)	\$50,000	\$65,000	\$65,000	\$75,000	\$75,000
	Total Annual Client Costs Other than Room & Board	(86) = value * (88)	\$58,400	\$87,600	\$87,600	\$105,120	\$105,120
	Total Annual Costs for Program Expenses	(87) = (83)+(84)+(85)+(86)	\$173,527	\$220,842	\$220,842	\$284,071	\$308,269
	Total Annual Patient Days at Full Capacity	(88) = 16 * 365 days	5,840	5,840	5,840	5,840	5,840
	Program Costs Per Client Per Day	(89) = (87) / (88)	\$29.71	\$37.82	\$37.82	\$48.64	\$52.79
Non-Administrative	TOTAL LABOR, TRANSPORTATION & PROGRAM	(90) = (66)+(80)+(89)	\$174.19	\$206.53	\$206.53	\$300.00	\$359.45
Administrative	Assumption for Administrative Expenses	(91)	18.0%	18.0%	18.0%	18.0%	18.0%
	Administrative Costs Per Client Per Day	(92) = (90)*(91)	\$31.35	\$37.18	\$37.18	\$54.00	\$64.70
Final Rate with Vacancy Assumption	Total Costs Per Client Per Day	(93) = (90)+(92)	\$205.55	\$243.70	\$243.70	\$354.00	\$424.15
	Assumption for Vacancy (1 bed unfilled each day)	(94)	93.75%	93.75%	93.75%	93.75%	93.75%
	Imputed Rate to Account for Vacancy	(95) = (93) / (94)	\$219.25	\$259.95	\$259.95	\$377.60	\$452.43
Current Rate			\$150.53	\$189.44	\$189.44	\$291.65	\$354.67
Dollar Difference: Proposed vs Current Rate			\$68.72	\$70.51	\$70.51	\$85.95	\$97.76
Percent Difference: Proposed vs Current Rate			45.7%	37.2%	37.2%	29.5%	27.6%