

MIH Outcome Measures Worksheet - Community Paramedicine Intervention

Agency: Anycity MIH Program
 Location: Anycity, USA
 Number of enrolled patients: 1,600

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ID	Measure	Input		Output	
		Description	Value	Goal	Result
Q1	Primary Care Utilization	Number of enrolled patients with an established PCP relationship upon graduation	1,450	Increase the number and percent of patients utilizing a Primary Care Provider (if none upon enrollment). {Higher Values Desirable}	92.9%
		Number of enrolled patients without an established PCP relationship upon enrollment	1,560		
Q2	Medication Inventory	Number of medication inventories with issues identified and communicated to PCP	1,250	Increase the number and percent of medication inventories conducted with issues identified and communicated to PCP. {Higher Values Desirable}	78.1%
		Number of medication inventories completed	1,600		
Q3.1	Care Plan Developed	Number of patients who have an identified and documented plan of care with outcome goals established by a physician and facilitated by the CP	750	Increase the number and percent of patients who have an identified and documented plan of care with outcome goals established by a <u>physician</u> and facilitated by the CP. {Higher Values Desirable}	46.9%
		All enrolled patients	1,600		
Q3.2	Care Plan Developed	Number of patients with a plan of care communicated by the patient's PCP	580	Increase the number and percent of patients who have an identified and documented plan of care with outcome goals established by <u>the patient's PCP</u> and facilitated by the CP. {Higher Values Desirable}	36.3%
		All enrolled patients	1,600		
Q4	Provider Protocol Compliance	Number of plan of care deviations without medical direction support.	120	Eliminate plan of care deviations without specific medical direction supporting the deviation. {Lower Values Desirable}	0.8%
		All patient encounters/interventions	14,400		
Q5	Unplanned Acute Care Utilization (e.g.: emergency ambulance response, urgent ED visit)	Number of patients who require unplanned acute care related to the CP care plan within 24 hours after a CP intervention.	100	Minimize rate of patients who require unplanned acute care related to the CP care plan within 6 hours after a CP intervention. {Lower Values Desirable}	0.7%
		All CP visits in which a referral to Acute Care was NOT recommended	13,400		
Q6	Adverse Outcomes	Number of adverse events resulting from a CP intervention	1	Minimize adverse effects (harmful or undesired effects) resulting from a medication or other treatment related to CP intervention. {Lower Values Desirable}	0.01%
		All patient encounters/interventions	14,400		

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Q7	Community Resource Referral	Number of referrals to community resources (3 referrals for 1 patient = 3 referrals)	13,500	Increase portion of patients referred to community resources for reconciliation of immediate social, transportation and environmental hazards and risks. {Higher Values Desirable}	108.00%
		Number of enrolled patients with an identified need	12,500		
Q8	Behavioral Health Services Referral	Number of patients with an established therapeutic relationship with behavioral health resources.	6,500	Increase portion of patients referred to a behavioral health professional for behavioral health intervention. {Higher Values Desirable}	86.67%
		Number of enrolled patients with an identified need	7,500		
Q9	Case Management Referral	Number of patients with an established therapeutic relationship to case management resources	6,500	Increase portion of patients referred to case management services. {Higher Values Desirable}	86.67%
		Number of enrolled patients with an identified need	7,500		
E1	Patient Satisfaction	Overall Score (out of max = 5)	4.8	Optimize patient satisfaction scores by intervention. {Higher Values Desirable}	4.8
E2	Patient Quality of Life	Overall Score on Enrollment	2.4	Improve patient self-reported quality of life scores. {Higher Values Desirable}	75.0%
		Overall Score on Graduation	4.2		
U1	Ambulance Transports	Number of unplanned ambulance transports up to 12 months post-enrollment	1,750	Reduce rate of unplanned ambulance transports to an ED by enrolled patients. {Higher Reduction Desirable}	-52.7%
		Number of unplanned ambulance transports up to 12 months pre-enrollment	3,700		
U2	Hospital ED Visits (90 days)	ED visits up to 12 months post-graduation	1,975	Reduce rate of ED visits by enrolled patients by intervention. {Higher Reduction Desirable}	-58.4%
		ED visits up to 12 months pre-enrollment	4,750		
U3	All-cause Hospital Admissions	Number of hospital admissions up to 12 months post-graduation	460	Reduce rate of all-cause hospital admissions by enrolled patients by intervention	-70.5%

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		Number of hospital admissions up to 12 months pre-enrollment	1,560	{Higher Reduction Desirable}	
U4	Unplanned 30-day Hospital Readmissions	Number of actual 30-day readmissions	20	Reduce rate of all-cause, unplanned, 30-day hospital readmissions by enrolled patients by intervention. {Higher Reduction Desirable}	-81.0%
		Number of anticipated 30-day readmissions	105		
U5	Length of Stay	ALOS by DRG for enrolled patients at end of implementation year X	3	Reduce <u>Average Length of Stay</u> by enrolled patients by DRG. {Higher Reduction Desirable}	-53.7%
		ALOS by DRG for patients NOT enrolled at the end of implementation year X	5		

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C1	Ambulance Transport Savings	Number of ambulance transports by enrolled patients 12 months post-graduation	1,750	Reduce Expenditures for unplanned ambulance transports to an ED pre and post enrollment or per event. {Higher Reduction Desirable}	\$464,700
		Number of ambulance transports by enrolled patients 12 months pre-enrollment	3,700		
		Average payment per transport	\$421		
		Expenditure per CP patient contact	\$75		
		Number of CP patient contacts for enrolled patients.	4,750		
C2	Hospital ED Visit Savings (90 days)	Number of ED visits by enrolled patients 12 months post-graduation	460	Reduce Expenditures for unplanned ED visits pre and post enrollment or per event. {Higher Reduction Desirable}	\$1,824,285
		Number of ED visits by enrolled patients 12 months pre-enrollment	1,975		
		Average payment per ED visits for enrolled patients	969		
		Expenditure per CP patient contact	\$75		
		Number of CP patient contacts for enrolled patients.	4,750		
C3	All-cause Hospital Admission Savings	Number of hospital admissions by enrolled patients 12 months post-graduation	350	Reduce Expenditures for unplanned hospital admission pre and post enrollment or per event. {Higher Reduction Desirable}	-\$6,206,250
		Number of hospital admissions by enrolled patients 12 months pre-enrollment.	975		
		Average Payment per Hospital Admission	\$10,500		
		Expenditure per CP patient contact	\$75		

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		Number of CP patient contacts for enrolled patients.	4,750		
C6	Total Expenditure Savings	Calculated savings for each enrollee (ATS+HEDS + (ACHAS or UHRS)+USNFS))		Total expenditure savings for all CP interventions {Higher Value Desirable}	\$0.00
		Calculated expenditure of the CP interventions for intervention per enrollee, including alternative sources of care expenditures			
C7	Total Cost of Care	Total cost of care for enrolled patients for 12 months post-enrollment		Reduce total healthcare expenditures for enrolled patients {Higher Reduction Desirable}	\$0.00
		Total cost of care for enrolled patients for 12 months pre-enrollment			
B1	Practitioner (EMS/MIH) Satisfaction	To be determined based on tools developed		Optimize practitioner satisfaction scores	0
B2	Partner Satisfaction	To be determined based on tools developed		Optimize partner (healthcare, behavior health, public safety, community) satisfaction scores	0
B3	Primary Care Provider (PCP) Use	Number of PCP visits during enrollment		Optimize number of PCP visits resulting from program referrals during enrollment.	0
B4	Specialty Care Provider (SCP) Use	Number of SCP visits during enrollment		Optimize number of PCP visits resulting from program referrals during enrollment	0
B5	Behavioral Care Provider (BCP) Use	Number of BCP visits during enrollment		Optimize number of BCP visits resulting from program referrals during enrollment	0
B6	Social Service Provider (SSP) Use	Number of SSP visits during enrollment		Optimize number of SSP visits resulting from program referrals during enrollment	0
B7	Emergency Department Capacity	Number of ED visits post-enrollment		Decrease number of hours of ED bed utilization by CP patients during measurement period. {Higher Values Desirable}	0.00
		Number of ED visits pre-enrollment			
		Average door to disposition time for all ED patients			

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B8	System Capacity - PCP	Number of patients referred to PCP services that were unable to receive PCP services due to lack of PCP capacity		Number and percent of patients unable to receive PCP services that they would otherwise be eligible to receive as a result of lack of PCP system capacity	
		Number of patients referred to PCP services			
B9	System Capacity - SCP	Number of patients referred to SCP services that were unable to receive SCP services due to lack of SCP capacity		Number and percent of patients unable to receive SCP services that they would otherwise be eligible to receive as a result of lack of SCP system capacity	
		Number of patients referred to SCP services			
B10	System Capacity - BCP	Number of patients referred to BCP services that were unable to receive BCP services due to lack of BCP capacity		Number and percent of patients unable to receive BCP services that they would otherwise be eligible to receive as a result of lack of BCP system capacity	
		Number of patients referred to BCP services			
B11	System Capacity - SSP	Number of patients referred to SSP services that were unable to receive SSP services due to lack of SSP capacity		Number and percent of patients unable to receive SSP services that they would otherwise be eligible to receive as a result of lack of SSP system capacity	
		Number of patients referred to SSP services			