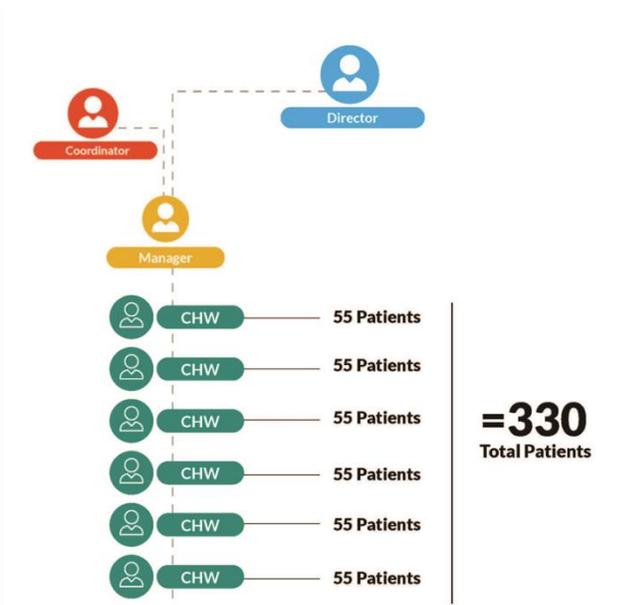


Appendix 1: Infrastructure for an IMPaCT team



Appendix 1: Infrastructure for a CHW team. CHWs work in teams of six serving 330 patients annually. Teams are supervised by a manager (typically an MSW or MPH). A coordinator helps to identify and enroll patients, and collecting data for ongoing quality assurance. One coordinator can serve two manager-led teams. A high-level director supervises eight manager-led teams.

**Appendix 2: Sensitivity Analysis**

	<b>Base Case</b>	<b>Best Case (inpatient savings inflated by 25% and additional outpatient costs decreased by 25%)</b>	<b>Worst Case (inpatient savings lowered by 25% and additional outpatient costs increased by 25%)</b>
<b>Inpatient Savings</b>	\$1,413,307	\$1,766,633	\$1,059,980
<b>Additional Outpatient Costs</b>	\$11,999	\$8,999	\$14,998
<b>Total Medicaid Savings Per Year</b>	1,401,308	1,757,634	1,044,982
<b>ROI based on cost savings and expense calculation</b>	2.47	3.09	1.84

<b>Appendix 3: Cost Calculation Using Bed Days</b>	
<b>Assumptions</b>	
Estimated Total Medicaid Cost Per Bed Day (Facilities and Professional Fees)	\$2,738
Number of Patients (Caseload for a CHW Team)	330
<b>Inpatient Costs for Intervention Patients</b>	
Number of Bed-Days Per Patient-Year for Intervention Patients	1.85
Total Number of Bed-Days Per Team for Intervention Patients	611.6
DRG Case-Mix Weight for Intervention Admissions	0.92
Estimated Total (Facilities and Professional) Medicaid Cost Per Bed-Days	\$2,738
Case Mix Adjusted Cost for Control Intervention Bed-Days	\$2,518.69
<b>Total Inpatient Costs for Intervention Patients</b>	<b>\$1,540,428.26</b>
<b>Inpatient Cost for Control Patients</b>	
Number of Bed-Days Per Patient-Year for Control Patients	2.72
Total Number of Bed-Days Per Team for Control Patients	898.82
DRG Case-Mix Weight for Control Admissions	1.05
Estimated Total (Facilities and Professional) Medicaid Cost Per Bed-Days	\$2,738
Case Mix Adjusted Cost for Control Group Bed-Days	\$2,874.59
<b>Total Inpatient Costs for Control Patients</b>	<b>\$2,583,724.27</b>
<b>Inpatient Cost Savings</b>	<b>\$1,043,296.01</b>
<b>Outpatient Costs for Intervention Patients</b>	
Number of Outpatient Visits per Patient-Year for Intervention Patients	12
Total Number of Outpatient Visits Per Team for Intervention Patients	4026
Average Medicaid Cost Per Outpatient Visit	\$45
<b>Total Outpatient Costs for Intervention Patients</b>	<b>\$182,981.70</b>
<b>Outpatient Costs for Control Patients</b>	
Number of Outpatient Visits per Patient-Year for Control Patients	11
Total Number of Outpatient Visits Per Team for Control Patients	3762
Average Medicaid Cost Per Outpatient Visit	\$45
<b>Total Outpatient Costs for Control Patients</b>	<b>\$170,982.90</b>
<b>Additional Outpatient Costs</b>	<b>\$11,998.80</b>
<b>Total Estimated Medicaid Savings Per Year</b>	<b>\$1,031,297.21</b>
<b>Return on Investment (Total Savings Divided by Expenses Per Team)</b>	<b>1.82</b>
Source: Authors' Analysis	

