

Implementation and Evaluation of the Exercise is Medicine Program in Primary Care

of SPORTS MEDICINE

Introduction

- Insufficient physical activity (PA) is a leading risk factor for most chronic health conditions.
- Identifying patients at higher risk of these conditions due to their insufficient levels of PA is one of the highest priorities given the evidence suggesting that insufficient PA poses as much of a risk to patients' health as other established risk factors that are routinely addressed within the primary care setting (e.g., smoking, hypertension, obesity) and creates a significant financial burden on the healthcare system.
- Numerous interventions effectively increase PA, but few are integrated into primary care clinic workflows.
- Exercise is Medicine (EIM) is a global health initiative committed to the belief that PA is integral to the prevention and treatment of diseases and should be routinely assessed as a vital sign and treated in the healthcare setting.

Figure 1. The Combination of the PRISM & Learning Evaluation Models



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Specific Aims
 To conduct a pre-implementation evaluation and adaptation of EIM protocol, materials, and delivery strategies To implement the program and use continuous quality improvement methods to refine it To evaluate the EIM program from patient, provider, stakeholders, and healthcare systems perspectives
Approach
 We are combining two health services research approaches: PRISM Learning Evaluation We are using measures relevant in real world settings to fit within the evolving needs and priorities of the healthcare system. We are using the FRAME-IS model to systematically track adaptations in each clinic.
a Evolution Modele



Epic Data (through April 2021) Reach & Implementation					
Clinic	Launch Date – April 2021	Total Eligible Visits	PAVS Completed (%)	.EIM Documentation (%)	Health Coaching Referrals (%)
LWC FM	Oct 2018	29,704	16,013 (53.9%)	5,758 (36%)	649 (4%)
SOR IM	Oct 2019	10,872	6,043 (55.6%)	730 (12.1%)	561 (9%)
SRC FM	Jan 2020	16,899	5,390 (31.9%)	899 (16.7%)	438 (8%)
GEN FM	March 2020	18,521	6,962 (37.6%)	1,640 (23.6%)	754 (11%)
Grand Total		75,996	34,408 (44.7%)	9,027 (22.1%)	2,402 (8%)

Patient Perspective: Reach & Implemer Question (N = 316)

Did you receive the PAVS questionnaire? Did you complete the PAVS questionnaire Did you indicate that you wanted to speak Was physical activity addressed? If so, in

PCP discussion
Paperwork
Both

Program Description	
 Step 1. Physical Activity Vital Sign (PAVS) On average, how many days per week do you engage in moderate to strenuous exercise like a brisk walk? On average, how many minutes do you engage in exercise at this level? (days) x (minutes) = total min/week Step 2. PCP Discussion (<1 minute) Recommend increasing PA if not meeting guidelines Reinforce PA if meeting guidelines Step 3: Exercise Recommendations/Prescription Recommend gradually increasing PA if not meeting guidelines Reinforce PA if meeting guidelines Step 4: Referral to Health Coaching (optional) Two free 15-minute, telephone-based health coaching sessions offered through healthcare currem 	 Resiand RE-A RE-A RE-A Future Imp F Imp F S Con Dev system prin Dissem regin
offered through healthcare system Identify and address barriers, set goals, affirm progress	
s Chief Complaint Travel Vital Signs PI Refused Vitals Pain Allergies Home Medications Verify Rx Benefits Notes Screening Hearing/Vision Review of Systems Consents t t performed: 7 5 min 30 min 35 min 40 min 45 min 50 min 55 min 60 min	 Funding Integer FMI FMI Heat External Ager Dever
Automatically calculated by Epic	
1 Previous 1 Next	Age (Me
RE-AIM Outcomes	Gender (Female Male

RE-AIM Outcomes

Yes	No	Unsure	N/A
226 (71.5)	57 (18)	31 (9.8)	2 (0.6)
201 (63.6)	9 (2.8)	10 (3.2)	96 (30.4)
16 (5.1)	173 (54.7)	9 (2.8)	118 (37.3)
230 (72.8)	63 (19.9)	20 (6.3)	3 (0.9)
150 (47.5)			
19 (6)			
61 (19.3)			
	226 (71.5) 201 (63.6) 16 (5.1) 230 (72.8) 150 (47.5) 19 (6)	226 (71.5)57 (18)201 (63.6)9 (2.8)16 (5.1)173 (54.7)230 (72.8)63 (19.9)150 (47.5)19 (6)	226 (71.5)57 (18)31 (9.8)201 (63.6)9 (2.8)10 (3.2)16 (5.1)173 (54.7)9 (2.8)230 (72.8)63 (19.9)20 (6.3)150 (47.5)19 (6)10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (

UC San Diego HEALTH SYSTEM

Conclusions/Future Directions

sults to date suggest that EIM can be successfully adapted id integrated into primary care clinics at UC San Diego Health -AIM outcomes

- Reach & adoption high
- Implementation of components variable
- Effectiveness and maintenance TBD in the next 3 years

<u>e Directions</u>

- plement in additional clinics:
- Remaining 2 faculty primary care clinics
- Student-Run Free Clinic
- Specialty clinics (e.g., orthopedics, geriatric primary care) nduct cost analysis and generate cost-effectiveness models evelop implementation toolkits that will assist other health stems with the adaptation and integration of EIM into their mary care practices
- sseminate EIM to other UC Health Systems and/or other gional health systems

Acknowledgements

ling Sources

Race (%

Asian

Black

White

Other or

Ethnicity

Hispanic

Non-His

of reco

scores (

- ternal Pilot Funding (2017-2018)
- /IPH Pilot Research Award
- ealth Sciences Academic Senate Award
- (ternal Funding (2019-2024)
- gency for Healthcare Research & Quality (AHRQ) Career
- evelopment Award (K08)

	Total (N=17,090)	Patients with ≥2 PAVS scores (N=8,457)	Patients with ≥1 Health Coaching (HC) Calls (N=450)	Patients with ≥1 HC Calls & ≥2 PAVS scores (N=331)
ean, SD)	50.3 (17.5)	52.1 (17.7)	53.6 (16.3)	55.4 (16.3)
(%)	62.5 37.5	64.4 35.6	66.4 33.6	64 36
%) r Mixed Race	15.6 4.6 16 62	13.4 5.7 17.3 62.4	13.6 7.3 17.5 60.2	11.2 7.9 17.8 61.9
/ (%) c spanic	14.1 83.3	15.6 82	14.4 84.2	15.7 83.1
orded PAVS Mean, SD)	2.2 (1.9)	3.4 (2.1)	3.4 (2.8)	4.2 (2.8)

