Integrating Trainees to Telehealth Infrastructure in **Primary Care in the Department of Veterans Affairs**

Needs and Goals

- A nationwide Tele-Primary Care initiatives evolved to deliver cutting edge clinical services developing an educational infrastructure to incorporate trainees.
- A team of educators, telehealth (TH) experts, and primary care clinicians are developing a Tele-Primary Care curriculum for trainees to optimize their experience.

Setting and Participants

The 120,000+ healthcare professional trainees rotate through over 150 VA healthcare facilities. An assessment of the scope of TH training found 69% of al medical centers were providing individualized TH training opportunities for trainees.

- Developing an inventory of TH trained clinicians & pairing them with trainees for supervised TH training opportunities
- Cataloguing best practices in TH training
- Addressing policy obstacles such as training license and accreditation agency limitations.

Education Experience

- 15 Tele-Primary Care clinicians from different states assessed the need for a dedicated Tele-Primary Care curriculum meeting monthly via video conferencing technology.
- Each meeting a different components of the curriculum were addressed
- Common and interprofessional components in addition to individual profession-directed components within the scope of practice.
- Many lessons learned across the different sites were shared and challenges particularly in common were tackled amongst the group as a whole.
- Other sites can incorporate things that work well in another site like simulations, participation in established team virtual meetings and huddles.

Evaluation

- National standardized telehealth education model for trainees will be measured quantitatively and qualitatively.
- Quantify:
- Web-based modules, Didactics, and Simulations provided
- Trainee surveys
- Competency-based formal evaluation
- Qualitative
- Exit interviews
- Post-telehealth training debriefing and reflection

Lessons Learned and Pearls

Emphasize patient safety

- How to manage clinical and logistical emergencies
- Create a technology buzz
- Provide hands-on learning
- Teach them professional telepresence
- Communication and establishing rapport
- Provider and patient side physical environment
- Mind the gap: strategies bridge physical, cultural, and institutional gaps
- Telemedicine coordination takes more time:
- Scheduling can be logistically challenging
- Negotiate with spoke site, telehealth visits can take longer, trainees can add additional time and clinic flow
- Telepresenters must be scheduled to assist with check-in, exam maneuvers, and procedures, such as ECGs.
- Provide a list of contacts to facilitate virtual warm handoffs to integrated mental health and pharmacy
- Work with the educational office liaison early on trainee schedules

Next Steps

- Continue to add more sites and catalogue
- experiences
- Quantify handoffs, select outcomes (Hgb A1c, PHQ9)
- Cross-profession evaluation (IPAC)

VA National Telehealth Primary Care Curriculum Call Group Report: Our goal is to bridge the telehealth education gap using available technology that benefits patients in primary care Thus far we have used different educational strategies depending on the telehealth site and we have been successful in our educational efforts so far



Integrating Trainees to Telehealth Infrastructure in Primary Care in the Department of Veterans Affairs

Sarai Ambert-Pompey, MD^{1,2,3}, Janeen E. Smith, MD⁴, Ijeoma A. Kene-Ewulu, MD, FRCS Ed⁵, Leoni Heyworth, MD, MPH^{,6}, Laura Spoutz, PharmD, BCPS¹, Jennifer Wersland, PsyD¹, Rick Tivis, MPH⁷, Matthew Rogers, PA-C⁸ 1 Department of Telehealth, VISN 20 V-IMPACT, Boise, Idaho, 2 University of Washington, Department of Medicine, 3 Center of Excellence in Primary Care Education, San Francisco VA, University of California San Francisco, 5 Clinical Director, Atlanta V-IMPACT Hub Atlanta, Georgia, 6 Synchronous Telehealth Lead, Office of Connected Care, Telehealth, San Diego, California, 7 Idaho Sate University, 8 National V-IMPACT Clinical Operations Director, Boise VA









Education

- 5. Implementation
- 6. Evaluation

Session	Content	Educational Strategies
Session 1 (1hr)	Equipment, technology, safety, documentation	Didactic, checklist, role play visits to VMR
Session 2 (1hr)	Video visit selection, integration into care delivery	Didactic, small group brainstorming, role play case vignettes
Session 3 (1hr)	Virtual physical exam, peripheral devices	Didactic, role play case vignettes

NP Faculty

Atlanta V-IMPACT Hub

MD Faculty

Objectives follow 6 ACGME core competencies Teaching Methods/Learning Activities

aching Method

dactics ulation Prac nical Observer nical Observer ontinuity clini ch based Eye Ca ele Dermatolo

Boise V-IMPACT Hub & COEPCE

 Survey into their practice training • Direct observation: descriptors Exit interview – Reflection

		Α	tt

Retentior Veterans Affairs

San Francisco V-IMPACT Telehealth Hub & Center of Excellence in Primary Care

Problem: Despite available technology and benefits to patients, video visits were not being performed Needs Assessment: certification requirements, knowledge, skills and attitude barriers identified **Goals and Objectives:** developed for learners, for the curriculum and for the VA from needs assessments. Curriculum

Curriculum & Educational Strategies: 16 learners and 2 facilitators set in a computer training room

٢	٦	

cipants	My Ability to Conduct a Video Visit: Pre-Post		
	4.50 Average Pre Average Post		
	3.50		
	3.00		
	2.00		
	1.00		
	0.50		
MD Trainees	0.00		

	Recommended PGY for 3 year Residency	Recommended Term for
	PGY 1, 2, 3	T1, 2, 3
	PGY 1, 2	T1,2
b	PGY 1, 2	T2,3
oke	PGY 1, 2	T1, 2
	PGY 2, 3	Т3
	PGY 1, 2	T1,2
	PGY 1, 2	T1,2

Total 48 Post-Graduate from 2015 to 2019

Total 17 Students : 15 Medical, 2 Pharmacy Trainees



Telehealth Primary Care: Building towards Interprofessional Academic PACT

Telehealth V-IMPACT Hub Center of Excellence in Primary Care Education Sarai Ambert-Pompey, MD Janeen E. Smith, MD, Ijeoma A. Kene-Ewulu, MD, FRCS Ed, Laura Spoutz, PharmD, BCPS, Jennifer Wersland, PsyD









Outline Introduction Telehealth in Primary Care Curriculum Evaluation San Francisco V-IMPACT Hub COEPCE Atlanta V-IMPACT Hub Boise V-IMPACT Hub COEPCE Lessons Learned Summary Questions

Objectives

- home and mobile devices
- Present the Telehealth Primary Care Curriculum and Evaluation • Describe Telehealth Primary Care rotation experience and data to date
- including:
- Workshops, simulations, and workplace learning - Interprofessional virtual real-time warm handoffs, virtual team huddles and meetings
- Discuss project lessons and pearls (2015 and beyond)

• Review Telehealth Primary Care and integrated Telehealth in Primary Care to



Telehealth in Primary Care is an Old Shoe



This Photo by Unknown Author is licensed under <u>CC BY-SA-NC</u>

Take an aspirin and call me in the morning.

This Photo by Unknown Author is licensed under <u>CC BY-SA</u>

DIA

V-IMPACT: Virtual Integrated Multisite Patient Aligned Care Team





Spoke Site

Spoke Site Patients Clerk **Clinical Assoc.** CM Nurse

Hub Site Clerks PCPs Clinical Pharmacists Integrated Mental Health

Spoke Site

Spoke Site



Defining EXCELLENCE HEALTH EXCELLENC CARE in the 21st Century



VVC: VA Video Connect









a few states have required a certain amount of distance between the provider and patient



In New Hampshire, Medicaid patients must be located in a rural area, as defined by Medicare

In South Dakota, an originating site and a distant site cannot be in the same community



DEFINITION

states and the District of Columbia have a definition for telehealth, telemedicine,

states & DC reimburse for live video through Medicaid

states reimburse for store and forward

CONSENT



states include some sort of informed consent

×m_

PRIVATE PAYER LAWS

states and the District of Columbia have active laws



www.cchpca.org March 2017

Learning Objectives

Learning Objectives	۰L
	<u>n</u>
	• C
	• C
	۰P
	۰P
	h
	V



Demonstrate how to provide profession specific care through telehealth Demonstrate how to provide interprofessional team-based care through telehealth

Provide primary care through telehealth

Primary care provider learners understand •CPS and PCMHI learner receive and now to <u>remotely consult sub-specialties</u> balance same-day referral availability with returning scheduled patients via via video telehealth

CPS





Web module or equivale

Skill assessment **Formal Didactic** Workshop/Simulation

Workplace Learning (Longitu

Modifiable Telehealth Primary Care Curriculum

ent	 Clinical Video Telehealth (CVT [VVC]), Emergency Procedure
	 Teleprovider Skills Assessmen
	 Telehealth Introduction
	 Learner as a Teleprovider
	 Learner as a interprofessional
	 Learner as patient in sub-spec
	practice
	 Case-based learning provider
udinal)	Interprofessional Academic Tel
	 Telephone and Video direct p
	 Virtual huddles/team meeting
	 Population health manageme
	 E-Consult (non-visits chart rev
	 Subspecialty video consult (if

) and/or Video to Home (VA Video Connect es, Web side manners, Documentation

team member – warm handoff cialty clinic with post-simulation reflective

lePACT Clinic: atient care g, virtual warm handoffs ent tools views and recommendations) available)



Telehealth Primary Care Evaluation



•Survey: Pre/Post Self-Assessment Observation-based feedback (periodic on longitudinal rotations) •Evaluation Form: Complete training required components, CVT and/or VVC patient care, Documentation, Virtual Interprofessional activities (IP-CAT) Reflection: Exit Interviews •Track number virtual visits •Track clinical outcomes based on the virtual visits (vitals, labs, consults ordered)



V-IMPACT Hubs Trainee Education

San Francisco V-IMPACT Hub COEPCE Atlanta V-IMPACT Hub Boise V-IMPACT Hub COEPCE







San Francisco V-IMPACT Hub and COEPCE A Telehealth Curriculum for Interprofessional Trainees and Staff Bringing back the house call via video



We used the Kern's 6 Step Model for Curriculum Development **Problem:** Despite available technology and benefits to patients, video visits were not

- being performed
- 2. identified
- needs assessments

4. Curriculum & Educational **Strategies:** 16 learners and 2 facilitators set in a computer training room

Needs Assessment: certification requirements, knowledge, skills and attitude barriers

Goals and Objectives: developed for learners, for the curriculum and for the VA from

Content

Session 1 (1hr)	Equipment, safety, docu
Session 2 (1hr)	Video visits integration
Session 3 (1hr)	Virtual physical peripheral of
	peripheral o

Session



	Educational Strategies
, technology, umentation	Didactic, checklist, role play visits to VMR
selection, into care delivery	Didactic, small group brainstorming, role play case vignettes
sical exam, devices	Didactic, role play case vignettes
devices	vignettes

San Francisco V-IMPACT Hub and COEPCE A Telehealth Curriculum for Interprofessional Trainees and Staff

5. Implementation 6. Evaluation

Implementation: 6 sessions offered to date (session 1 & 2) **Participation:** 33 participants (10 NP trainees, 3 MD trainees, 5 NP faculty, 13 MD faculty, 2 unknown) **Certification**: All participants passed a certifying test required to perform VVC visits

Satisfaction with session quality: *Facilitator quality*: 4.7-4.8 out of 5 *Effectiveness of educational strategies: 4.6 out of 5* Self-assessed comfort and ability to perform telehealth visits: Ability to perform VVC visit: increased from 2.3 to 3.7 out of 5 Likelihood of performing VVC in next 3 months: 4.3 out of 5 Next steps

Focus groups with providers and trainees (further needs assessment)

Track performance of VVC visits

■ NP Trainees ■ MD Trainees NP Faculty
MD Faculty

Participants



San Francisco V-IMPACT Hub and COEPCE Educational experiences for UCSF internal medicine residents in

development

 Rural Telehealth Elective- for any UCSF internal medicine residents with interest • TelePrimary Care Continuity Clinic- for UCSF primary care internal medicine residents as a second clinic choice



Atlanta V-IMPACT Hub Tele Primary Care Curriculum • Goals

Teaching M

Didactics

Simulation

Clinical Obs

Clinical Obs

Continuity

Tech based

Tele Derma

• Objectives follow 6 ACGME core competencies Teaching Methods/Learning Activities

ethod	Recommended PGY for 3 year Residency	Recommended Term for 1 year Residency
	PGY 1, 2, 3	T1, 2, 3
Practice	PGY 1, 2	T1,2
erver Hub	PGY 1, 2	T2,3
erver Spoke	PGY 1, 2	T1, 2
clinic	PGY 2, 3	Τ3
Eye Care	PGY 1, 2	T1,2
tology	PGY 1, 2	T1,2



Atlanta V-IMPACT Hub **Tele Primary Care Rotation Evaluation** Review of Documentation (History and Physical Note, Progress Notes, Diagnostic result notification) • Communications Skills (Communicating with Patients, PACT Team members)

- Discussion and Case-based Learning

• Completion of simulated telemedicine encounter (Obtain consent, Telepresence, Clarity, Documentation, Closing Encounters) Attendance at Didactics or one-on-one teaching • Attendance at Relevant Conferences, Live Encounters, QI Project



Boise V-IMPACT Hub and CoEPCE

• TH PC Experiences available

- Nurse Practitioner Residents
- Psychology Interns and Residents

Total 48 Post-Graduate

 Clinical Pharmacy Students and Residents Medical Students and Internal Medicine Residents

Total 17 Students (15 Medical, 2 Pharmacy)





Curriculum

- Exposure: one or two half-days during ambulatory block
- Immersion: 1-4 week block rotation
- Longitudinal: once a week rotation for 6 -12 months
- Workplace Learning: Hub-Spoke sites clinic staff
- Attending on-site for staffing and supervision

• Interprofessional noon conference: live mock visit to an off-site clinic Half-day during ambulatory clinic block available for student level trainees



Evaluation

• Trainees complete a pre/post self- assessment: attitude, skills and usefulness of training • 72% plan to incorporate telehealth care into their practice • 91% would like more telehealth training



Attitude

- Exit interview Reflection

• Future direction – completing Interprofessional Clinical Assessment Tool

Skills

 Direct observation: milestone-based behavioral descriptors Formal written and verbal feedback for trainees





Usefulness

Acknowledgement: Rick Tivis, Boise statistician





Boise V-IMPACT Hub and COEPCE

Retention Veterans Affairs Boise VISN 20 V-IMPACT Hub



Pharmacy Resident Learning Experience

- 4 week rotation

PGY1

A more introductory focusing on exposure technologies and Tel

Visits observed by pr

Orders and charting preceptor

*Currently there is no independent practice allowed by trainees across state lines. All visits are observed by CPS preceptor. Charting and orders also completed by preceptor.

Completion of a presentation or in-service via CVT

Shadowing different members of the TelePACT team

	PGY2
experience to TH e to the different ePACT team roles	Increased au point of cont
receptor	Visits conduc
completed by	Orders and c with scope o

tonomy, may be the primary tact for some TelePACT teams

cted independently charting completed by resident ^r practice

Pharmacy Resident Feedback

- Hub
 - Exposure to different team structures
 - site to site

• Experiences with selecting medications based on different formulary management from

 Valuable to have shadowing experiences incorporated to observe how different PACT members utilize telehealth technology in their roles • Many found the opportunity to work with multiple CPSs a good way to see how different CPSs manage their clinic flows and utilize different telehealth modalities to conduct appointments (CVT vs. VVC vs. phone)

Valued the opportunity to work with different VA locations that we serve from





Psychology Fellows

Generalist to PCMHI

Mood to Mind/Body

> Ambulatory Care to Telehealth



Psychology Fellows

- - Preceptors sign all notes

 Internship required (year 5); Fellowship optional (year 6) • Six month rotation, one day/week • Varied clinics (PCMHI in 16 sites, each with 1-9 panels) Supervision only within state of Idaho (2 sites, 5 panels) Independent with preceptor on site

Psychology – Goals, Reactions, Future

- Set goals developmental approach Participate in weekly team meetings/huddles Receive handoffs, not solely scheduled patients • Collaborative care with onsite staff (MD, Pharm, RN, etc.) • Observe/Facilitate a group
- Future:
 - Initiate training earlier in process?

Reactions: innovative, Veteran comfort, good rapport, improving flexibility

Lessons Learned Telemedicine coordination takes more time

- Scheduling can be logistically challenging
 Work with the educational office liaison
- Negotiate with spoke site, telehealth visits can take longer, trainees can add additional time and clinic flow
- Telepresenters must be scheduled to assist with check-in, exam maneuvers, and procedures, such as ECGs.
- A list of contacts must be generated to facilitate virtual warm handoffs to

- team.

integrated mental health and pharmacy

early on trainee schedules





Top Pearls

- Emphasize patient safety How to manage clinical and logistical emergencies Create a technology buzz Provide hands-on learning and access to practice equipment Teach them professional telepresence Communication and establishing rapport Provider and patient side physical environment
- Mind the gap

• Strategies bridge physical, cultural, and institutional gaps





Summary

- Telehealth is only expanding
- Telehealth learning opportunities need to expand with it
- Interprofessional and multisite collaboration Tailor learning experience to current local resource









Primary Care Education

Telehealth Primary Care Curriculum Group

Monthly call

Sarai.Ambert-Pompey@va.gov

Modifiable interprofessional work-based learning curriculum Exchange ideas, experiences, challenges, and overcoming those



by Unknown Author is licensed under



Author is licensed under





Questions