

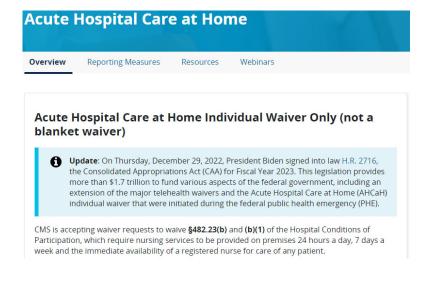
Mayo Clinic Advanced Care at Home

Chad R. Nelson, M.D.

Medical Director, Mayo Clinic Arizona Advanced Care at Home

What is Advanced Care at Home?

- Mayo Clinic Advanced Care at Home (ACH) is Mayo Clinic's hospital at home platform.
 - Provides acute (hospital level) care for patients meeting inpatient status, in the comfort of their home.
- Participating in the CMS waiver and Arizona Department of Health Services pilot program rules.





HEALTH CARE INSTITUTION

Request for participation in Acute Care at Home Pilot Program

(For Licensed General Hospitals only)

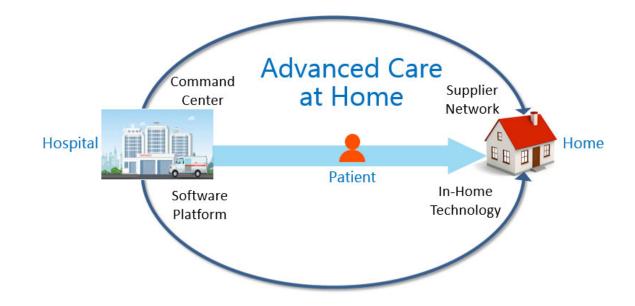
ARIZONA DEPARTMENT OF HEALTH SERVICES

PUBLIC HEALTH LICENSING SERVICES – MEDICAL FACILITIES

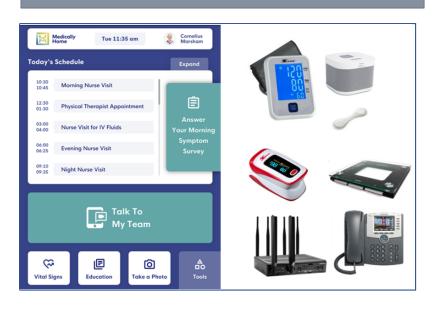
In accordance with Laws 2021, Chapter 320, ADHS developed the Acute Care at Home Pilot Program, for which the criteria and protocols are detailed below. By volunteering to participate in the Pilot Program, licensed hospitals agree to substantially adhere to the criteria and protocols as outlined in the Acute Care at Home Program Criteria and Protocols and cooperate with the ADHS to resolve patient concerns and complaints. Any failure to substantially adhere to the below criteria and protocols may result in withdrawal of a licensed hospital's participation in the Pilot Program. This withdrawal from the Pilot Program does not constitute an appealable agency action.

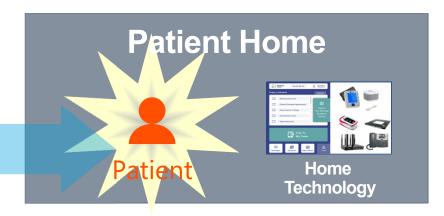
ACH at Mayo Clinic

- Began in Jacksonville, FL in July 2020
- Expanded to Eau Claire, WI in September 2020
- Arizona program started September 2021
- ACH what are we talking about?

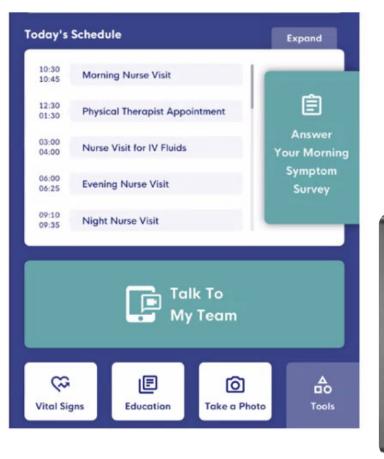


Medical Institution





Home Technology





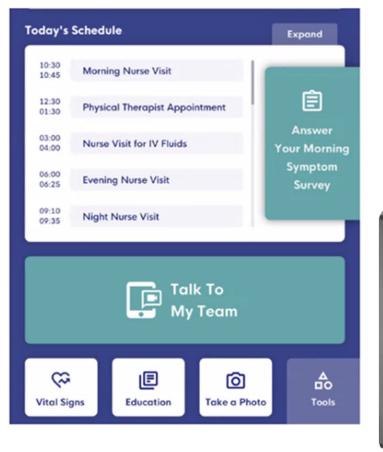
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MAYO CLINIC



VitalPatch RTM Vital Signs and ECG

Wearables

Vitls Vital Signs







Anelto – On the Go Elite mPERS w/ GPS



Belle+ mPERS w/ GPS



VIVALINK ECG





Life365.health RPM Kit

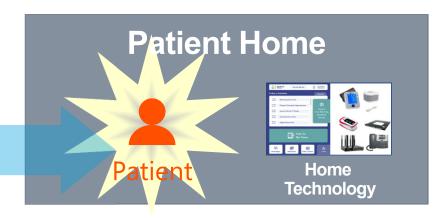


Anelto RPM Kit

Medical Institution

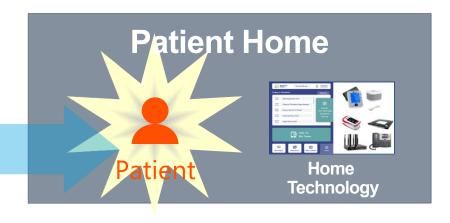






Software Platform







Command Center





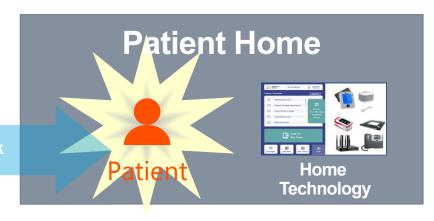




Command Center



Supplier Network



Community Paramedicine / ARR	Courier	DME	Home Health Aides	Home Care Services	Home Technology
Infusion Therapy	Lab Processing	Medical Meals	Medical Supplies	Medical Waste	Mobile Diagnostics
Nurse Practitioner	Oxygen/ Respiratory	Phlebotomy	Pharmacy	Security	Transportation

Supplier Network

ACH SUPPLIER NETWORK - ARIZONA

Insourced (MCA)

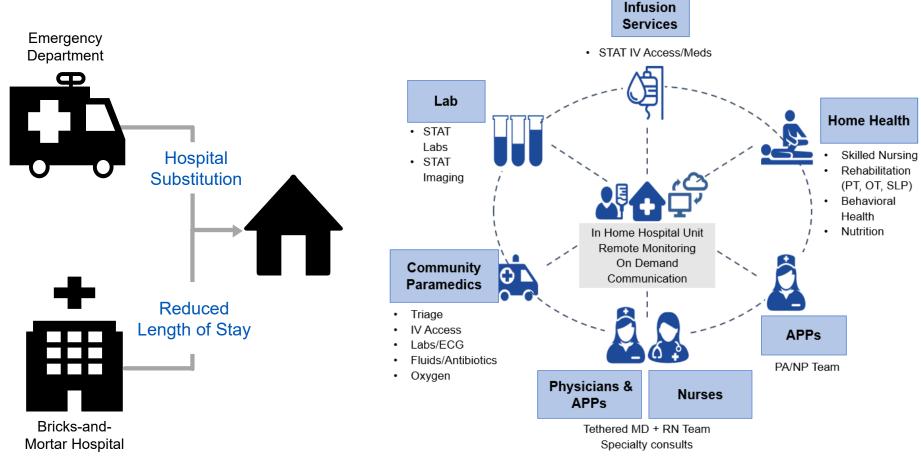
Outsourced (Managed by Medically Home)

Combination Insourced / Outsourced

Community Paramedicine / ARR	Courier	DME	Home Health Aides	Home Care Services	Home Technology
Infusion Therapy	Lab Processing	Medical Meals	Medical Supplies	Medical Waste	Mobile Diagnostics
Physician Assistant or Nurse Practitioner	Oxygen/Respirator y	Phlebotomy	Pharmacy	Security	Transportation

Social Work / Care Management

Overview of Home Hospital Program



A DAY IN THE LIFE OF AN ACH PATIENT

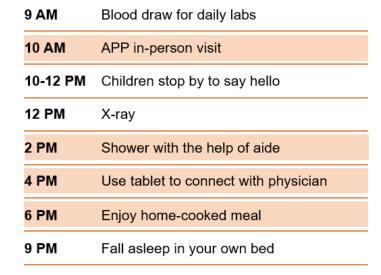
Brick & Mortar Hospital

6 AM	Blood draw for daily labs			
8-11 AM	AM Physician visit			
11-1 PM	Watch TV & wait for x-ray			
2 PM	Sponge bath in bed			
4 PM	Push call button to speak to physician			
5 PM	Physician stops by			
6 PM	Dinner is served			
11 PM	Hospital is quiet enough to fall asleep			

Hospital patients typically have to wait for a physician to stop by their room when they have a question. ACH patients have on-demand access to their physician at the touch of a button.



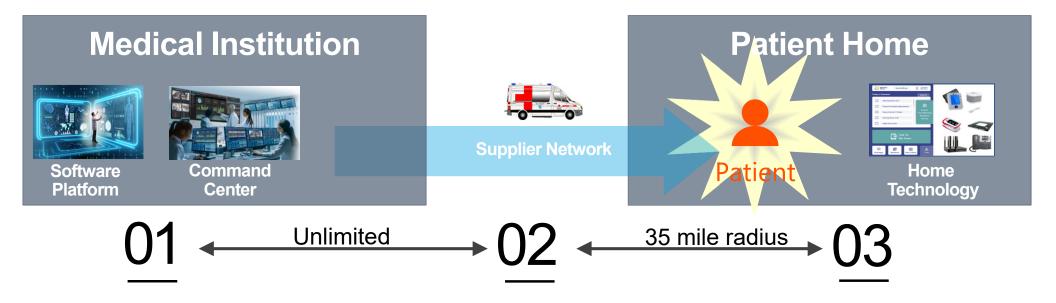
Advanced Care at Home





Patients in Advanced Care at Home receive inpatient level of care but are able to go about their daily life, such as visiting with family or sorting through their mail.

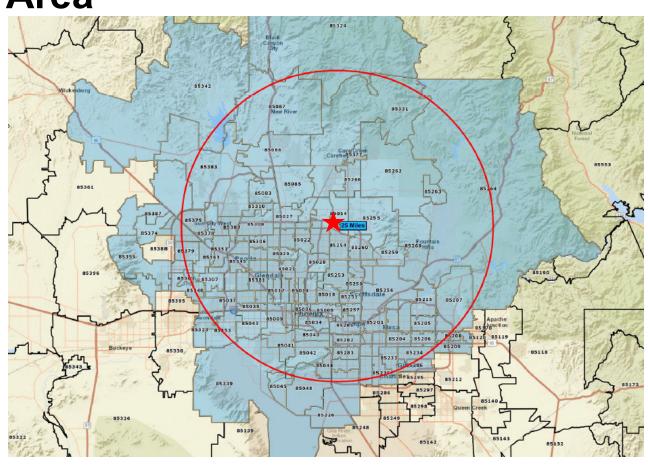
What does this give us?



Advanced Care at Home Across Mayo Clinic



Mayo Clinic Arizona Advanced Care at Home Service Area



Patient Eligibility

Inclusion Criteria

- Clinical stability
- Geography within 30 minutes of hospital
- Social determinants
- Payer source
- Age (adults only)
- Requires inpatient status

Diagnoses

- COVID
- Pneumonia
- CHF
- COPD exacerbation
- Cellulitis
- Bacteremia
- UTI
- Pyelonephritis
- C diff
- Renal failure
- IBD exacerbations
- Pancreatitis

Exclusion Criteria

- Clinically unstable
- IV pain medication needs
- Requires 24/7 assistance with ADLs
- Requires telemetry monitoring
- Unstable home environment
- Uncontrolled mental illness

PATIENT EXAMPLES



88 yo female

DX: Acute on chronic DHF, AKI, orthostatic

hypotension

PMH: O2-dependent COPD, PE on AC, CAD,

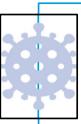
CHB s/p PPM, CKD, HTN, HLD, DM2



67 yo male

DX: Klebsiella bacteremia 2/2 UTI, C. diff

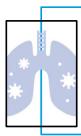
PMH: ESRD s/p renal transplant 2020, cirrhosis, recent WNV, prior CMV viremia



41 yo male

DX: COVID-19

PMH: None



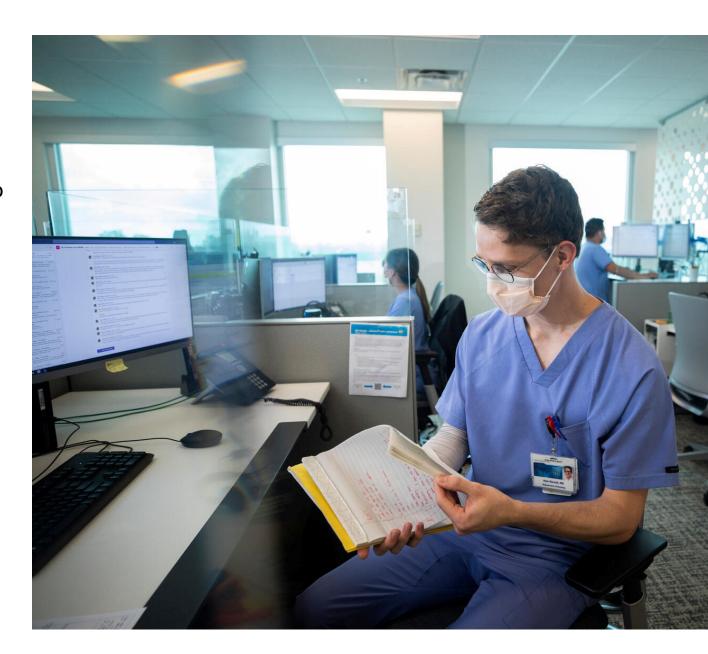
72 yo female

DX: CAP, hyponatremia, AKI

PMH: Dementia, HTN, recurrent UTIs

Advantages

- Allows brick-and-mortar beds to be used for acute, unstable patients
- Enables providers to truly understand the patient's lifestyle and care ecosystem to provide tailored, individualized care
- Can, at scale, create cost savings for healthcare providers, insurers, and patients



Challenges

- Payers
 - Medicare vs. Commercial
 - New CPT codes in 2022
- Policies and Regulations
 - Pilots and Waivers
 - Restrictions (geographic)
 - Variations from state to state (Paramedics etc.)



Our Experience at Mayo Clinic

Safe

Happy

Personalized

Admissions

3,032

Building experience with each new encounter

Bed Days Saved

13,219

Bed days saved allow more highly acute patients to receive treatment in the B&M hospital **Severity of illness**

2.8

Acuity of patients in ACH is similar to the hospital demonstrating that acute, but stable patients can effectively be cared for at home

Patient Experience

92%

of patients responded as highly likely to recommend the program

Mayo Clinic analysis matching ACH patients to their brick-and-mortar equivalents confirm equivalent safety and readmission outcomes. An ongoing RCT will continue to assess safety, quality, patient, and caregiver outcomes.

Mayo Clinic Arizona Experience



Admissions

318

Building experience with each new encounter

Top DRGs

- Respiratory infections
- Sepsis
- Heart failure
- Cellulitis

Bed Days Saved

1,317

Bed days saved - allows more highly acute patients to receive treatment in the B&M hospital



Informational Videos

A Patient's ACH Experience

How Medically Home's Hospital-At-Home
Works

ACH on the Today Show

