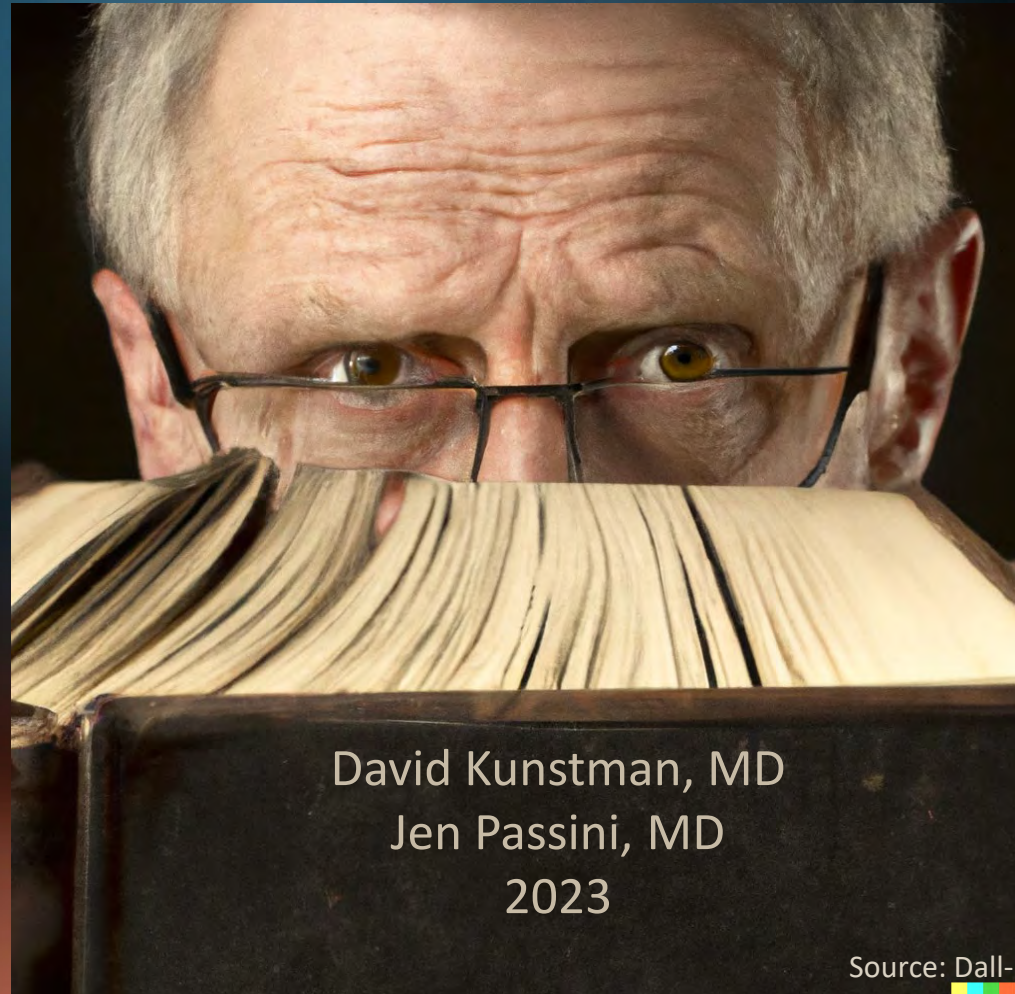


The Electronic Health Record



David Kunstman, MD
Jen Passini, MD
2023

Source: Dall-E

Medical knowledge has been expanding exponentially. Whereas the doubling time was an estimated 50 years back in 1950, it accelerated to 7 years in 1980, 3.5 years in 2010, and a projected 73 days by 2020...

American Clinical and Climatological Association, 2011

What's all in the EHR?

- Patient demographics
- Progress notes
- Vital signs
- Medical histories
- Diagnoses
- Medications
- Immunization dates
- Allergies
- Radiology images
- Lab and test results
- Administrative and billing data

How does an EHR improve care?

- Structured Documentation
- Structured Results
- Ordering / Prescribing Electronically
- Decision Support
- Electronic Communication
- Patient Portals
- Administrative Processes
- Reporting and Population Health

EHR: Structured Data



EHR: Electronic Ordering

6939 1-31-30 R_a
REG. No. 3413 DR. H. W. SMELTZER
OFFICE WEST MAIN ST. PHONE 14-W

PATIENT'S NAME Juene Cardwell
ADDRESS West-main st
1-31-30

R
Tabs Calomel
 $\frac{1}{10}$ gr no X
Sig one Tablet every
2 hr have for 6 d

TAKE THIS TO
COLLEGE INN PHARMACY) FULL NAME S
ABINGDON, VA.

ABINGDON, VA.
COLLEGE INN PHARMACY) FULL NAME S
TAKE THIS TO

EHR: Decision Support

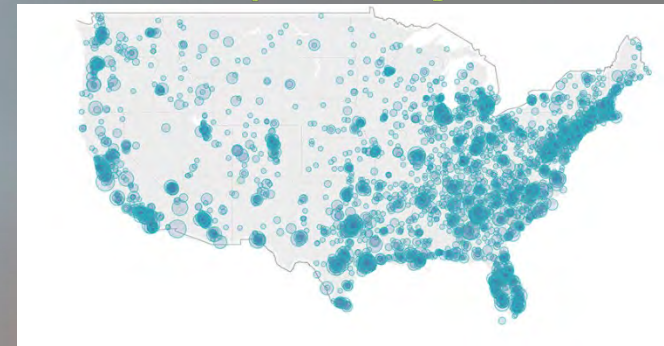


Source: Justpo.st

EHR: Electronic Communication



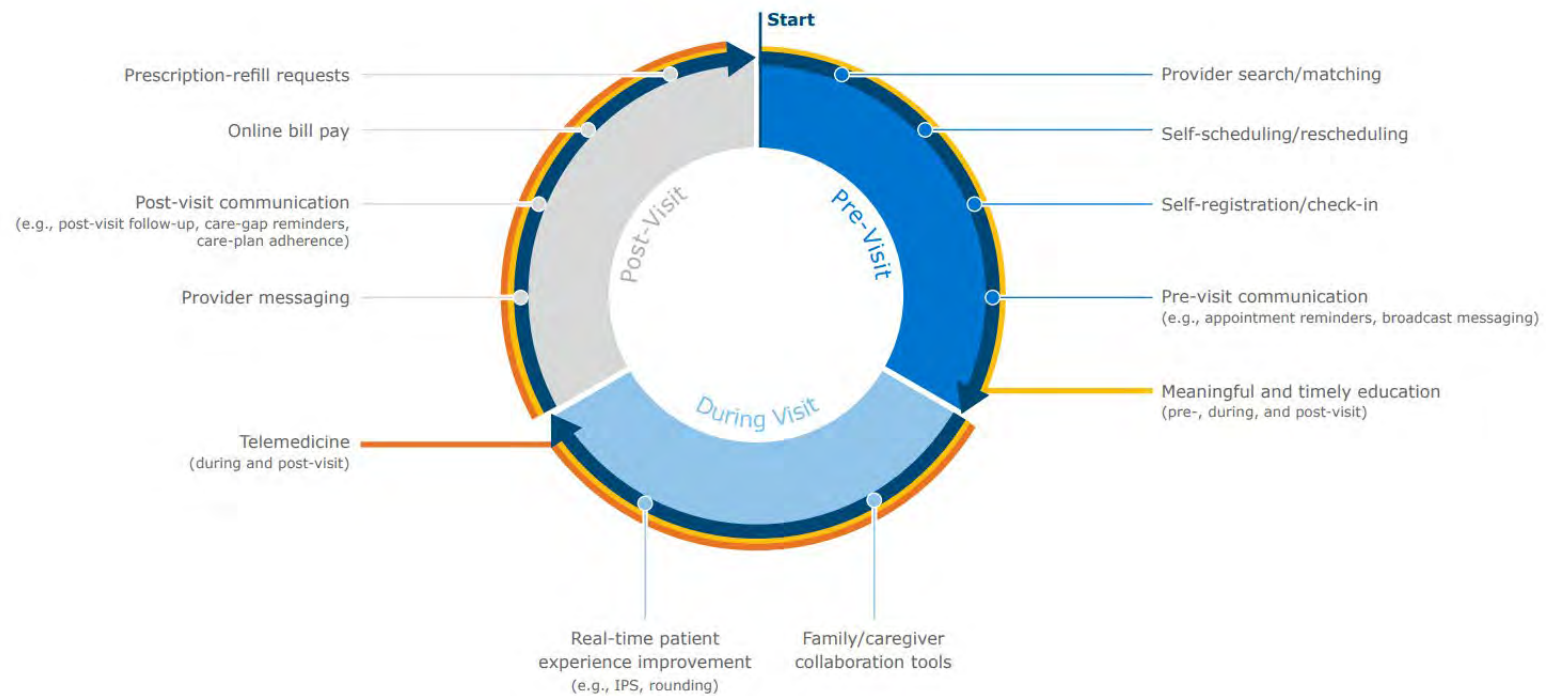
carequality



Source: epic.com

EHR: Patient Portal

Figure 2 The KLAS Patient Engagement Platform[†]



Source: KLAS-report-patient-engagement-platforms-2020

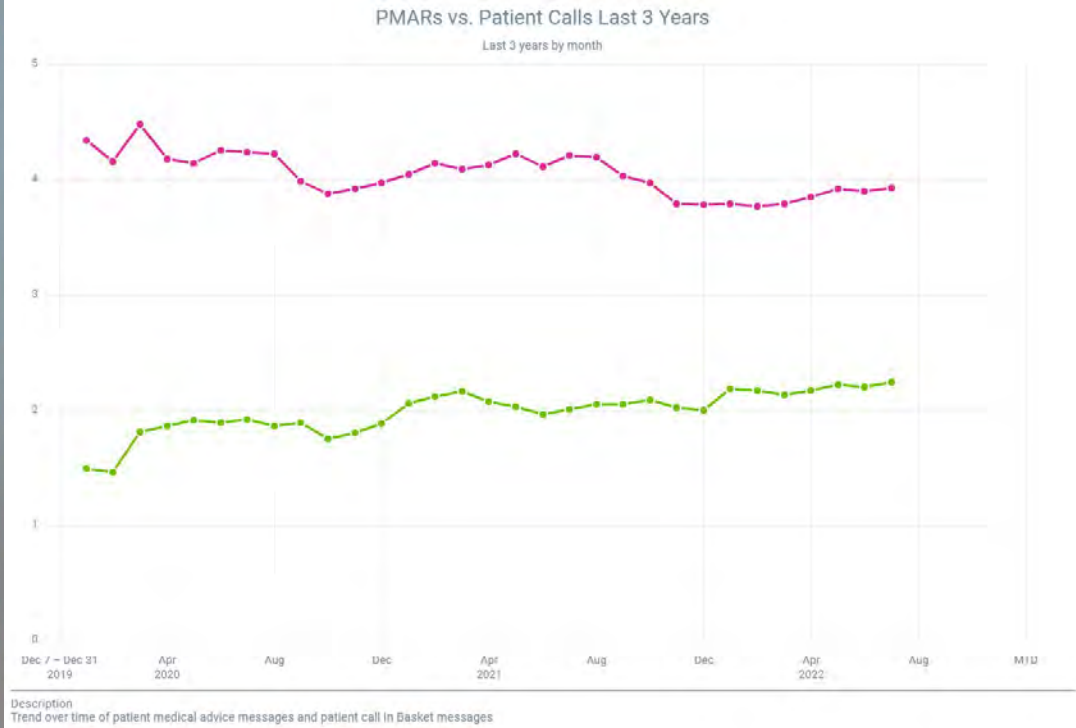
EHR: Patient Portal



Your secure online health connection

Source: epic.com

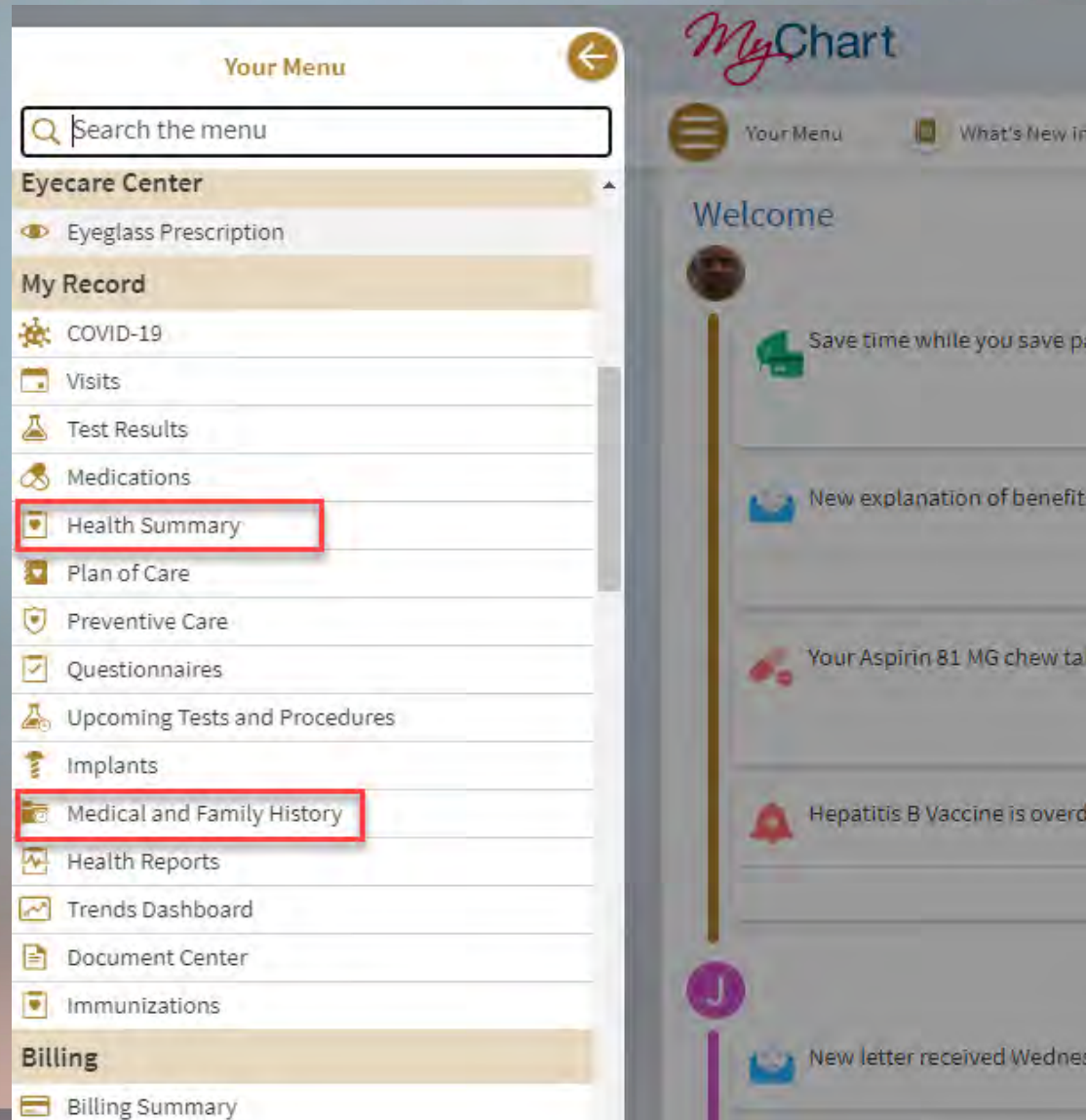
EHR: Patient Portal



Source: UWH data via Epic

EHR: Patient Portal

Source: Epic



EHR: Patient Portal

More hospitals, physicians charging for patient email inquiries

Hayley DeSilva - Tuesday, January 24th, 2023

Emailing your doctor? You may get billed for that.

Cleveland Clinic bills for less than 1% of weekly MyChart messages

Alan Condon - Wednesday, January 25th, 2023



Cleveland Clinic began billing patients for electronic messages through Epic's MyChart patient portal in November. Since then, it has charged fees for responses to less than 1 percent of the 110,000 weekly emails its providers received, *The New York Times* reported Jan. 24.

Public Radio | By Michelle Crouch | North Carolina Health News, The
ger
ry 9, 2023 at 8:24 AM EST



EHR: Patient Portal during hospitalization

The screenshot displays the MyChart bedside patient portal on an iPad. The top status bar shows 'iPad', signal strength, '3:40 PM', and '49%' battery. The app header includes 'Log out', 'MyChart bedside', and help/settings icons. The main content area features a navigation menu on the left with options: Home, Happening soon (with a sub-menu for Morning, Radiology Appointment, At 10:00 AM Lab Collection, Around 9 PM Medications, and Tomorrow Medications), Taking care of me, I would like..., Notes, and My health. The central area shows the date 'Wednesday, May 24', a greeting 'Good afternoon, TAC.', and a note 'Your discharge date isn't set yet.' It also displays 'UW Health at The American Center' and 'Day 197'. Two purple boxes contain medical information: 'You are here for...' listing 'Primary osteoarthritis of left knee', 'and we're also treating ...' listing 'Seizure disorder' and 'Suspected sleep apnea'; and 'Your medications' listing 'amlodipine', 'citalopram', 'hydrochlorothiazide', 'levetiracetam', 'levothyroxine', and 'pantoprazole'. The bottom section shows vital signs: Blood Pressure (118/71), Pulse (81), Respirations (16), and Temperature (98.6).

Log out

3:40 PM

MyChart bedside

49%

Home

Happening soon

Morning Radiology Appointment

At 10:00 AM Lab Collection

Around 9 PM Medications

Tomorrow Medications

Taking care of me

I would like...

Notes

My health

Today is Wednesday, May 24

Good afternoon, TAC.

Your discharge date isn't set yet.

UW Health

UW Health at The American Center

Day 197

You are here for...

Primary osteoarthritis of left knee

and we're also treating ...

Seizure disorder

Suspected sleep apnea

Your medications

amlodipine

citalopram

hydrochlorothiazide

levetiracetam

levothyroxine

pantoprazole

118/71

81

16

98.6

Blood Pressure

Pulse

Respirations

Temperature

Patient Portal and 21st Century Cures Act Information Blocking Rule

DID YOU KNOW?



8 in 10 individuals who have viewed their medical record online considered the information useful.¹



27% of individuals were unaware or didn't believe they had a right to an electronic copy of their medical record.¹



41% of Americans have never even seen their health information.²



HIPAA (Health Insurance Portability and Accountability Act of 1996) gives us the right to access our health information.

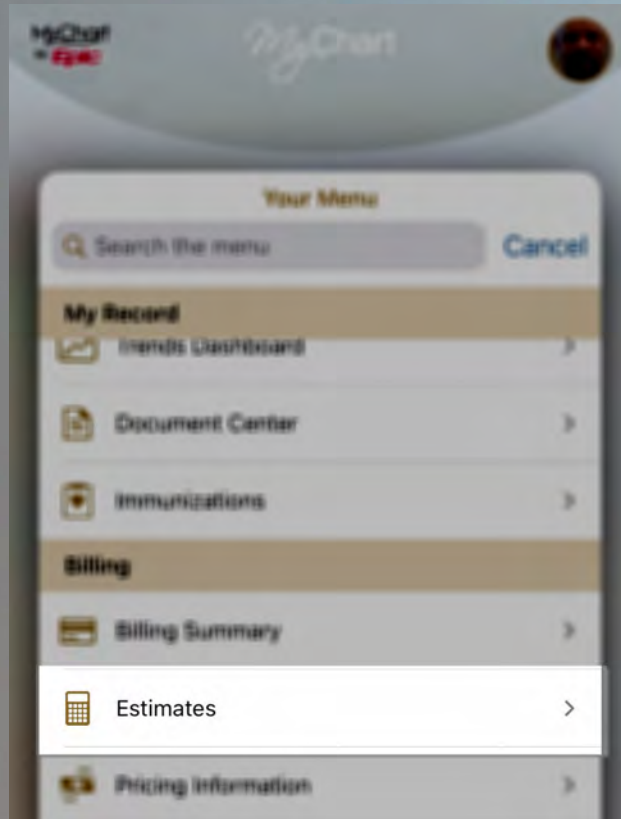
Source: The Office of the National Coordinator for Health Information Technology (ONC)

EHR: Administrative Processes

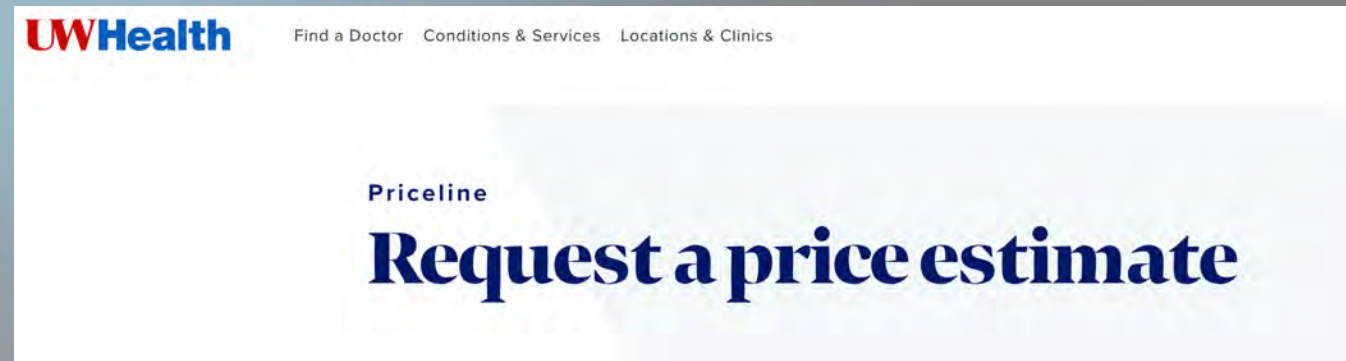


Source: Duke University Archives is licensed under CC BY-NC-SA 2.0.

EHR: Administrative Processes



Source: epic.com / MyChart



Source: www.uwhealth.org/forms/request-a-price-estimate-priceline

EHR: Reporting & Population Health

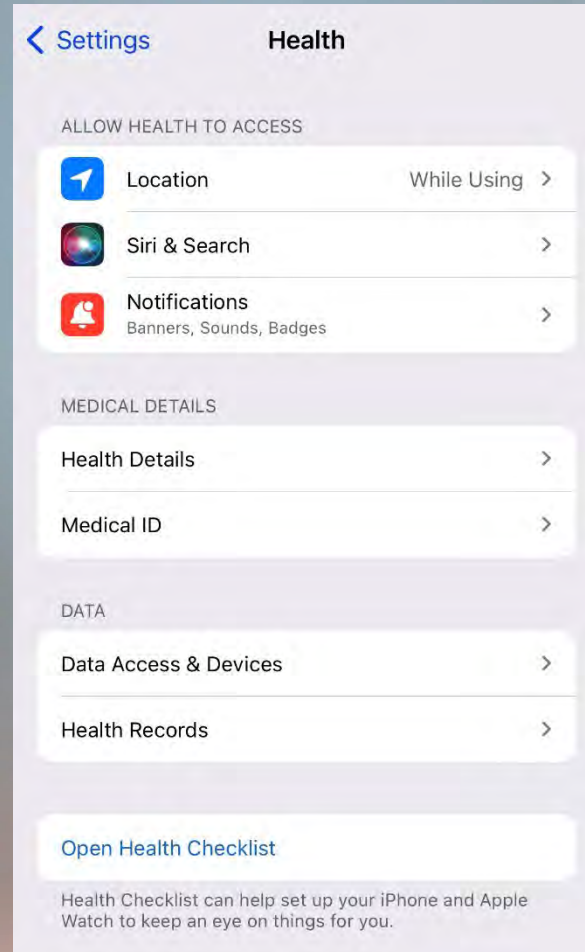
Epic
Cosmos

The logo for Epic Cosmos is centered within a large, horizontally-oriented oval. The oval has a color gradient from dark purple on the left to dark red on the right. The word "Epic" is written in a red, sans-serif font above the "C" of "Cosmos". "Cosmos" is written in a large, white, sans-serif font. The letter "o" in "Cosmos" is replaced by a 3D sphere with a metallic, reflective surface and a bright, glowing pink and purple light source inside, creating a lens flare effect.

Source: epic.com

Helping First Responders

Source: Apple



Emergency Access

Show When Locked
Enabled

Your Medical ID can be viewed when iPhone is locked by tapping Emergency, then Medical ID. On Apple Watch, press and hold the side button and drag the Medical ID slider to the right.

Share During Emergency Call
Enabled

If you call Emergency Services, iPhone and Apple Watch can share your Medical ID. [Learn More](#)

Questions?

UWHealth