

Telemedicine Applications

Ronald S. Weinstein, MD, FCAP, FATA

Director, Arizona Telemedicine Program

Professor, College of Medicine
University of Arizona

Tucson and Phoenix, AZ

Telemedicine

- Modalities
- Services

Telemedicine

- Modalities
- Services

Modalities

Visual

Auditory

“Talk is the treatment”

Modalities

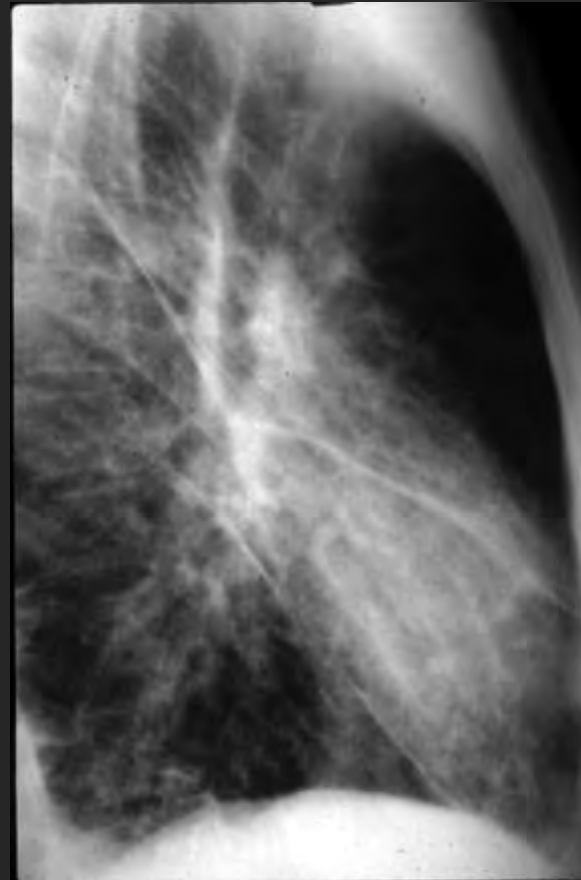
Visual

Auditory

“Talk is the treatment”

MEDICAL IMAGING

Teleradiology



MEDICAL IMAGING

Telemammography



MEDICAL IMAGING

Teledermatology



MEDICAL IMAGING

Otorhinolaryngology (ENT)



MEDICAL IMAGING

Modalities

Visual

Auditory

Electronic Stethoscope



Modalities

Visual

Auditory

“Talk is the treatment”

“The talk is the treatment”

- **Psychiatry/psychology**
- **Genetic Counseling**
- **Pain Management**
 - **Nutrition**
- **Support groups**
- **Hospice care**



Telepsychiatry



Cancer Genetic Counseling



Breast Cancer Survivor Support Group Training

Support Groups



Telemedicine

- Modalities
- Services

TELEMEDICINE SERVICES

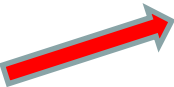
Pre-internet

TELEMEDICINE SERVICES

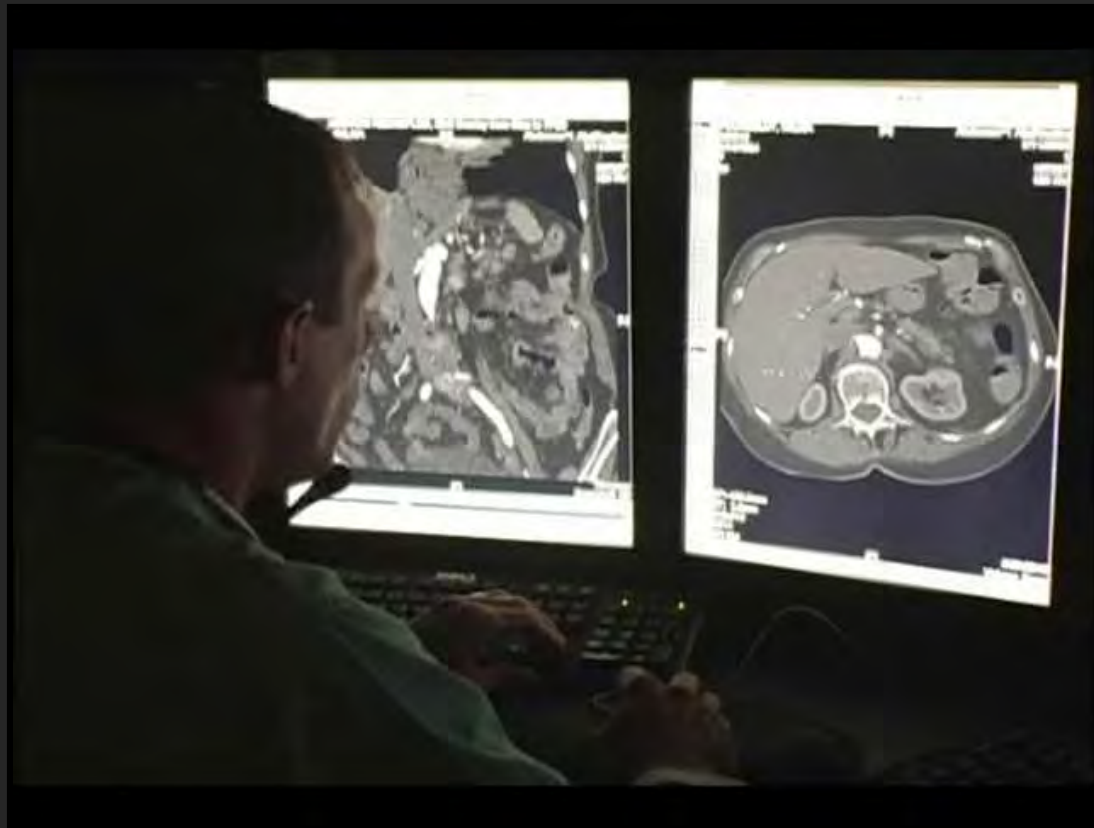
Leading Telemedicine Services

1. Gap Services
2. Urgent Services
3. Mandatory Services

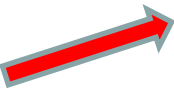

Leading Telemedicine Services

1. Gap Services  Teleradiology
2. Urgent Services
3. Mandatory Services

Teleradiology - 1,400,000+ cases

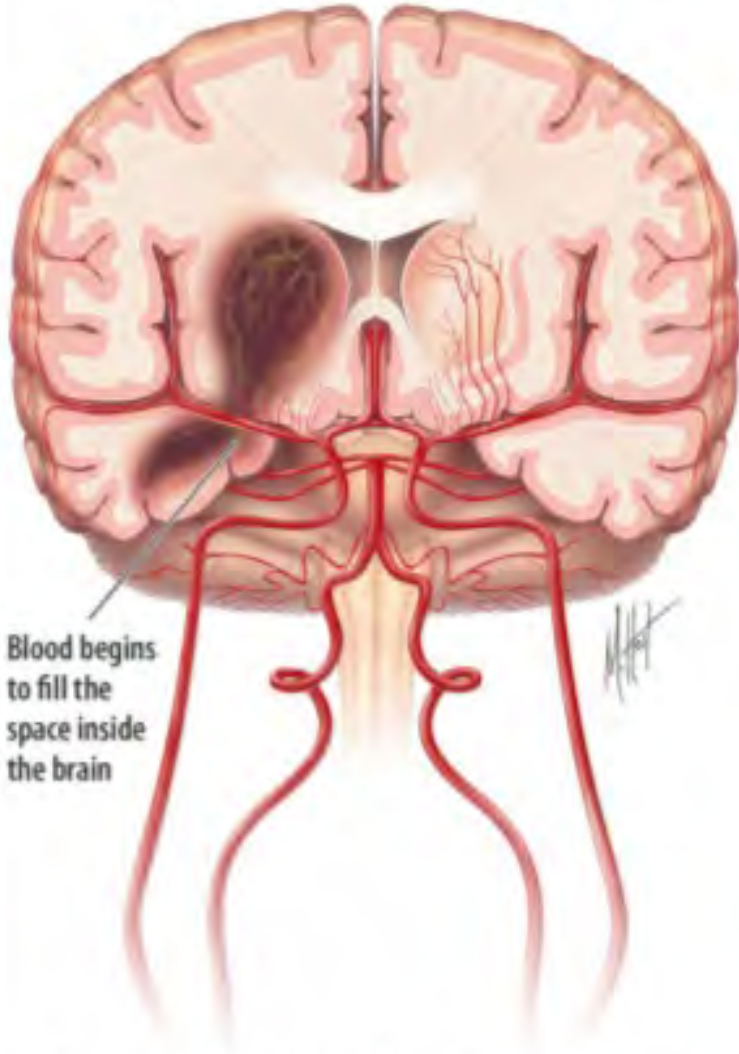


Leading Telemedicine Services

1. Gap Services  Teleradiology
2. Urgent Services  Telestroke
3. Mandatory Services

Strokes

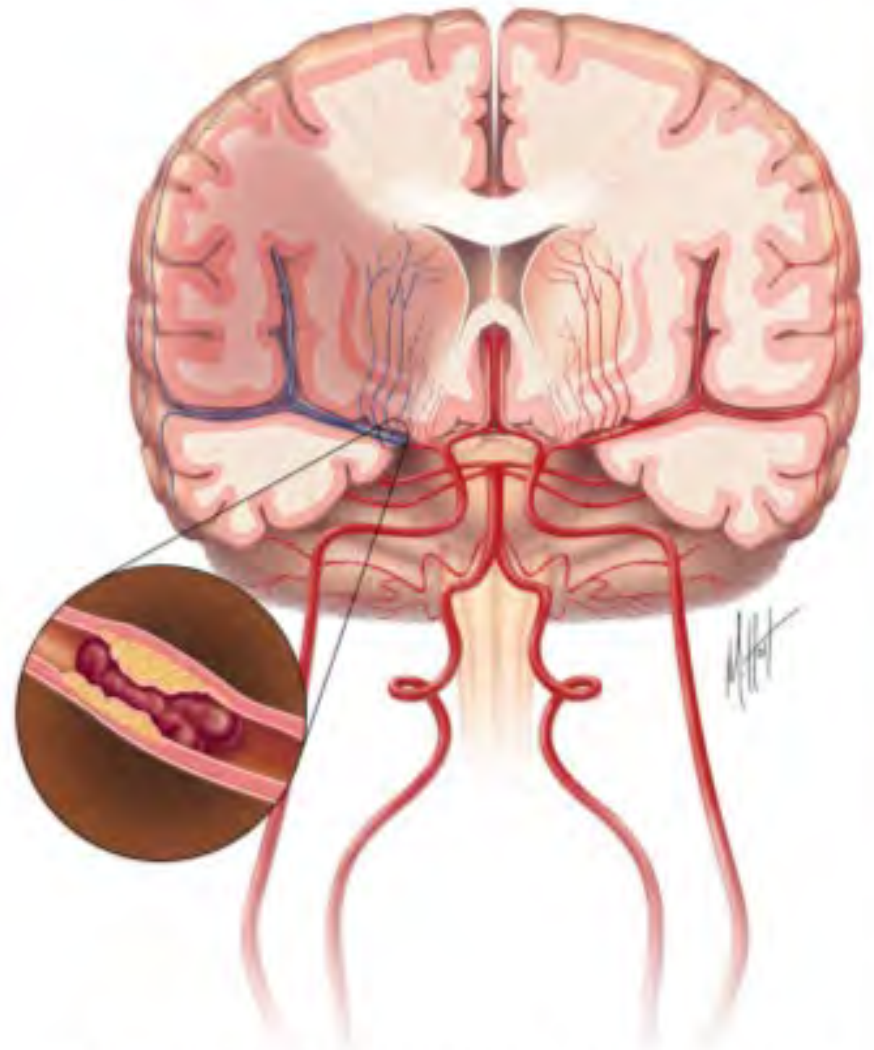
Haemorrhagic (13%)



Blood begins to fill the space inside the brain

Caused by blood vessel rupture.

Ischemic (87%)



Caused by blockage of blood vessel.

Telestroke Evaluation

Patient History

Physical Examination

CT Scan

Phoenix Area

Barrow Neurologic Institute



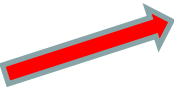


TeleStroke
Supporting Community Hospitals



ResolutionMD mobile.



Leading Telemedicine Services

1. Gap Services  Teleradiology
2. Urgent Services  Telestroke
3. Mandatory Services  **Infectious Diseases**

TELEMEDICINE SERVICES

Post-internet

Telemedicine & Telehealth Services

1. *Gap Services*
2. *Urgent Services*
3. *Mandatory Services*

4. Mobile Telehealth

5. Direct-to-Consumer Telehealth



<https://ihealthlabs.com/wireless-scales/ihealth-core/>

Images intended as examples of technology and not as an endorsement of companies or products.


Connected Health/Mobile Health



Telemedicine & Telehealth Services

1. *Gap Services*
2. *Urgent Services*
3. *Mandatory Services*
4. Mobile Telehealth
5. Direct-to-Consumer Telehealth

Tucson Daily Star February 24, 2019



TMC NOW

Talk to a doctor anytime, anywhere you happen to be

Prompt treatment, median call back in 10 minutes

A network of doctors that can treat every member of the family

TALK TO A DOCTOR NOW

Access care anywhere, any place, any time.
The TMC Now app gives you 24/7 access to physicians that are licensed to practice in Arizona through the convenience of phone, video or mobile app visits. It's an affordable option for quality medical care.

Talk to a doctor for only \$49.
Use promo code **FESTIVAL10** for 10% OFF your first visit.
Expires 3/31/19. One code per person.

GET THE CARE YOU NEED

Our doctors can treat many medical conditions, including:

- Cold and flu symptoms
- Allergies
- Pink eye
- Ear infection
- Respiratory infection
- Sinus problems
- Skin problems
- ...and more.

Download on the App Store

Download on Google Play

tmcaz.com/tmcnow

TMC NOW DOWNLOAD THE APP FREE TODAY!

Tucson Medical Center

© 2018 Tucson Medical Center. All Rights Reserved.
Apple and the Apple logo are trademarks of Apple Inc. registered in the U.S. and other countries.

Tucson Daily Star January 6, 2019

Arizona Daily Star / Monday, January 6, 2019



TMC NOW

TALK TO A DOCTOR NOW

Talk to a doctor anytime, anywhere your internet is on.

Prevent treatment, medical cost back in 10 minutes.

A network of doctors that can treat every member of the family.

ACCESS CARE ANYWHERE, ANY PLACE, ANY TIME.
The TMC Now app gives you 24/7 access to physicians that are licensed to practice in Arizona through the convenience of phone, video or mobile app visits. It's an affordable option for quality medical care.

Talk to a doctor for only \$49.
Use promo code **STAR10** for **10% OFF** your first visit. Expires 2/28/19. One code per person.

Download on the **App Store** | Download on **Google Play**

tmc.com/tmcnow

DOWNLOAD THE APP FREE TODAY! Tucson Medical Center

© 2018 Tucson Medical Center. All Rights Reserved. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.

Access care anywhere, any place, any time.
The TMC Now app gives you 24/7 access to physicians that are licensed to practice in Arizona through the convenience of phone, video or mobile app visits. It's an affordable option for quality medical care.

Talk to a doctor for only \$49.
Use promo code **STAR10** for **10% OFF** your first visit. Expires 2/28/19. One code per person.

Download on the **App Store** | Download on **Google Play**

tmc.com/tmcnow

TMC NOW DOWNLOAD THE APP **FREE TODAY!** Tucson Medical Center

© 2018 Tucson Medical Center. All Rights Reserved. Apple and the Apple logo are trademarks of Apple Inc., registered in the U.S. and other countries.

GET THE CARE YOU NEED

Our doctors can treat many medical conditions, including:

- Cold & flu symptoms
- Allergies
- Pink eye
- Ear infections
- Respiratory infection
- Sinus problems
- Skin problems
- ... and more

Direct-to-Consumer Telehealth

United HealthCare Virtual Visits

<https://www.youtube.com/watch?v=gnVmHZRSOnQ>

Direct-to-Consumer Telemedicine

American Well

<https://www.youtube.com/watch?v=sBryMAxi5tE>

TELEMEDICINE SERVICES

98point6

Questions!

Ronald S. Weinstein, M.D.

rweinstein@telemedicine.arizona.edu