

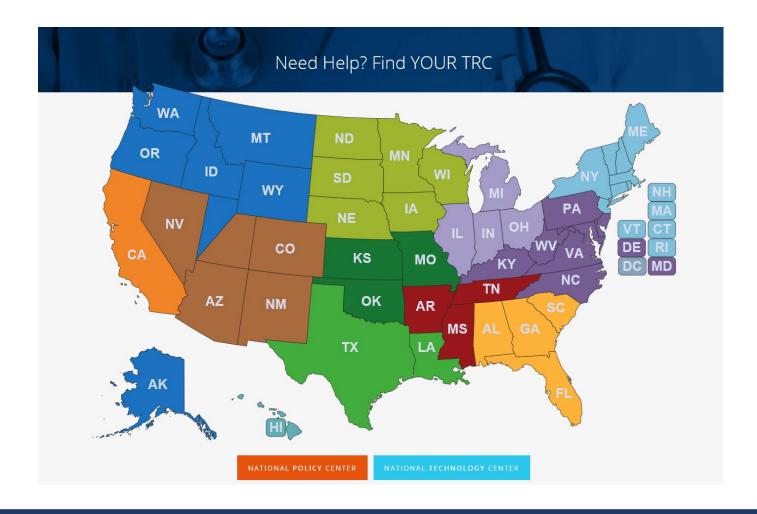


# Arizona Telemedicine Program How to put the Tele into Telehealth

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#### www.telehealthresourcecenter.org









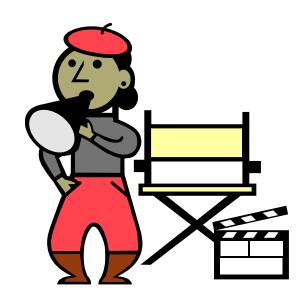
# Technology Telecommunications Telehealth/Telemedicine





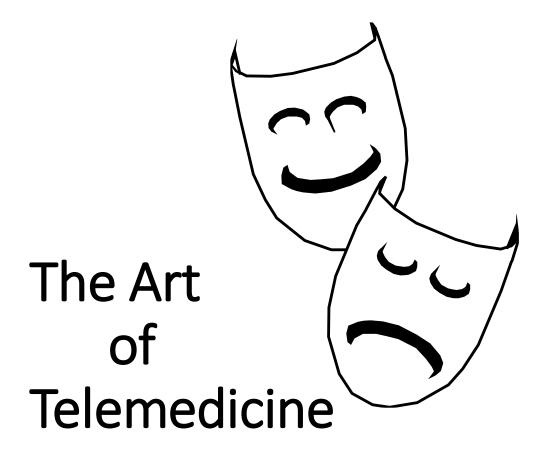
#### **Communication Technology**

- Lights, Camera ACTION!
- Two way videoconferencing Using hardware/software
- Web cams using secure sites over the internet
- Other devices or programs which connect to your laptop or desktop @home or bedside













# Telemedicine = REALITY





#### **Elements of Production**

- Sound
   microphones
   electronic stethoscope
- Lighting color temperature angle
- Space and geography of the room





- Same Elements of production whether you are in a state-of-the-art videoconferencing suite, using a videophone or a webcam @ your desktop!
- Background
- Lighting
- Audio
- Camera skills be sure you are looking GOOD!











- Bandwidth and managing your bandwidth
- Back-up plan
- Old/new technology combinations
- Data Access & Management
- Test in advance and the day of and repeat!





#### **Best Practices**

- Technical Protocols
- Clinical Protocols
- Mock Patients
- Training





#### Cameras

- Angle
- Framing
- Lighting
- White balance
- Choosing the right one
- Focus on communication and NOT the technology









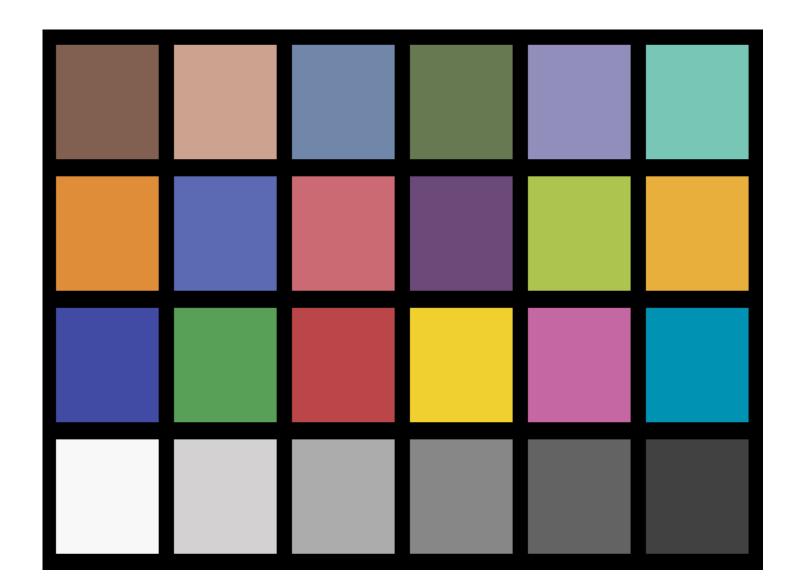




# telemedicine =

medicine at a distance









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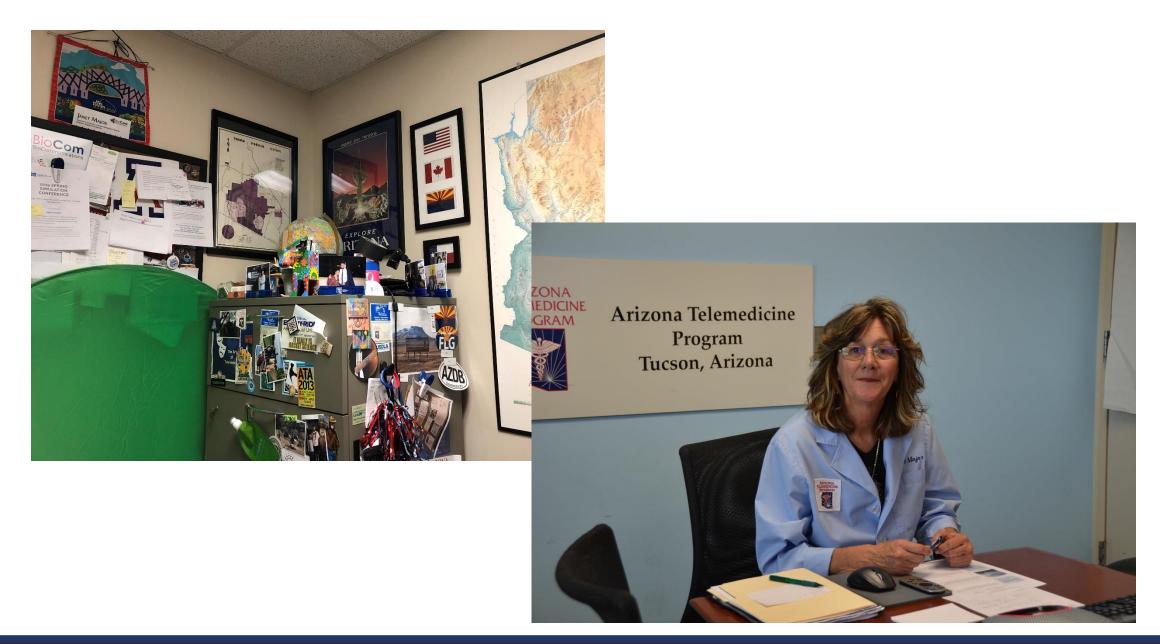










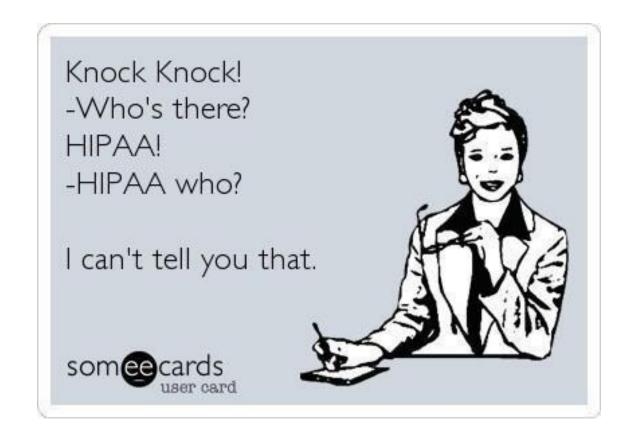








# HIPAA Health Insurance Portability And Accountability Act of 1996









Telepresence 2007







- Mute your audio
- View
  - Speaker mode
  - Gallery mode
  - Full Screen





# Mute / unmute your microphones

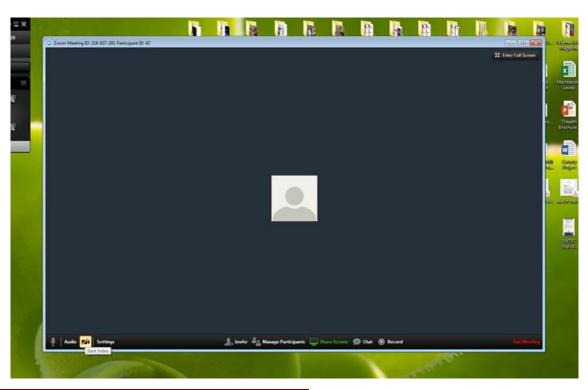






## Mute / unmute your video





MUTE = ALT V





## Speaker View

#### or

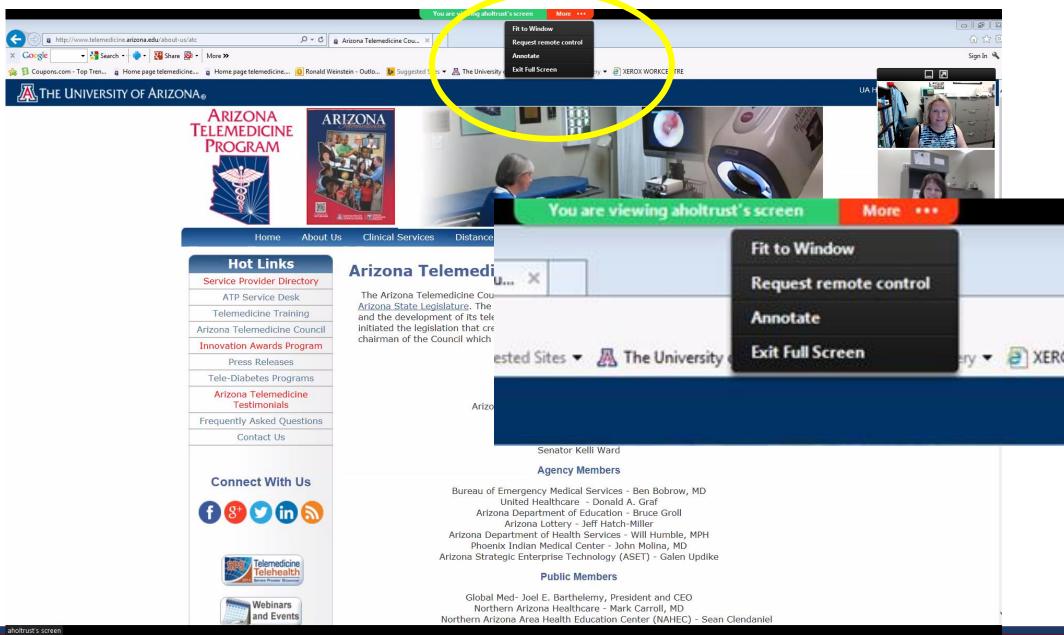
## **Gallery View**















### Teleconferencing Tips

- wear appropriate clothing and jewelry
- be aware of your body language
- use an agenda and facilitate introductions
- develop protocols for questions
- be familiar with the equipment
- test all equipment in advance





#### **Educational Materials**

- send in advance whenever possible
- suggest powerpoint from a computer
- use 24 point font or greater
- use fonts like Arial or Times New Roman
- use a medium blue background with white or yellow font (high contrast)
- use a document camera for 3-D objects
- don't use red











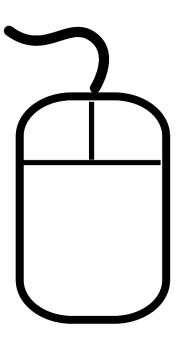








#### Remote control = mouse!







#### Be Interactive

- Journal Club
- Pass the Laserpointer
- EKG Bingo
- Team Competition
- Small Group Discussions
- Use photos, nametags or a namelist
- Use Multi-point and PIP options
- don't be just another talking head



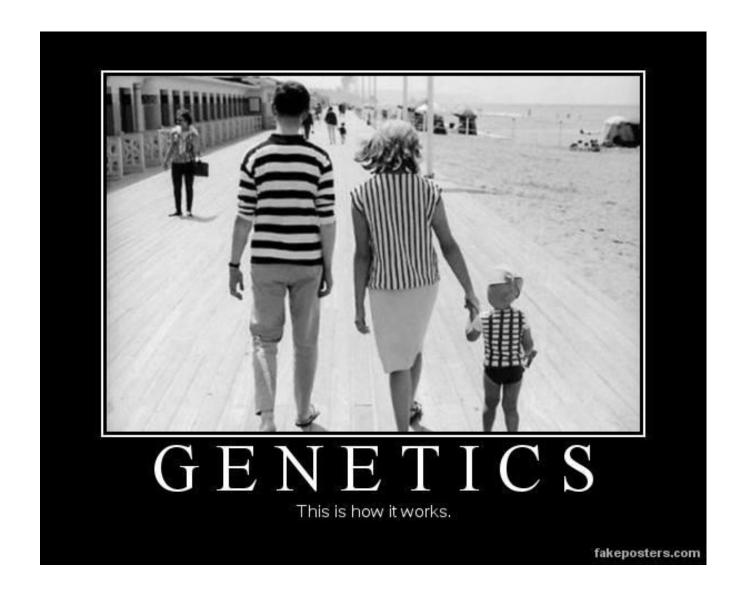


#### microphones

- Require the ability to easily to turn on/off
- Laptop mics and cameras can be adequate but you absolutely have to be able to control on/off quickly
- Echo cancellation is necessary for two-way communication
- Multi-Point events need testing and practice
- Just one open microphone can make or break the conversation or crash a good time!

















## Curriculum

- Hybrid Certificate Course
- Online Learning Modules with a post-test before 1 day onsite training
- Meet with colleagues onsite for a one or two day course that includes an agenda and hands-on real life scenarios
- All counselors rotate thru the interactive videoconference role playing experience and participate as a counsellor as well as a patient with challenging scripts
- A National network of TeleGenetic Counsellors is being built as a product of this collaborative effort
- Genetic Counselors often deliver very BAD news!





#### Clinical Case Presentation











# The Telemedicine Referral Case Process

Phyllis Webster,
Program Coordinator, Sr.
Arizona Telemedicine Program

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Case Management

Go through the steps required to set up, carry out and complete a clinical telemedicine referral.





To be a good telepresenter – and a great telegenetic counselor you must be a good communicator.

- verbally
- non-verbally





# SELFIES!













# Technology



- Makes the world a smaller place
- Keeps people in their communities





# Cultural Diversity = having different cultures respect each other's differences.

- Age
- Technology
- Language ACA in Spanish, VIDA in Spanish, consent forms in Navajo, sign language and translations/interpreters
- Geography and Economy sheep herders, copper miners who need healthcare when and where it's convenient
- FOOD what's the best flour for making tortillas?
   Using technology to maximize the work of Certified Diabetes
   Educators OR Genetic Counselors in your state!





# Hands-on!







# Technology



- Makes the world a smaller place
- Keeps people in their communities







Interpreter





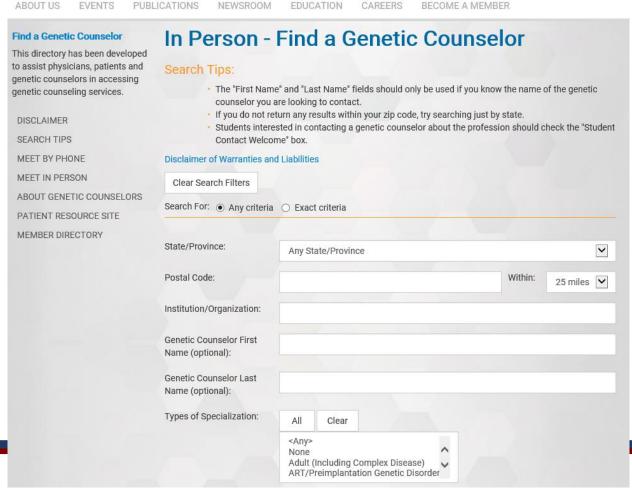






#### How to Find a Certified Genetic Counselor

#### https://www.nsgc.org/findageneticcounselor







## How to Find a Telegenetics Counselor







**Welcome** to the Telemedicine & Telehealth Service Provider Directory, a service of the Arizona Telemedicine Program. The directory is a resource for hospital and healthcare administrators and other decision-makers who want to expand or improve their healthcare services to their patients, employees, clients, etc. The directory lists companies providing medical specialty services (such as radiology, rheumatology, neurology, psychiatry) and ancillary services (such as patient education and language interpretation) through telemedicine to healthcare providers such as hospitals, clinics, nursing homes, private practices and urgent care centers.

Service Providers: List your company here.

#### **Search the Directory**



134 record(s) found, scroll down to see results. Page 1 of 7 page(s); up to 20 displayed per page.





## https://telemedicine.arizona.edu/servicedirectory

#### **Search the Directory**



5 record(s) found, scroll down to see results. Page 1 of 1 page(s); up to 20 displayed per page.



















### ARIZONA TELEMEDICINE PROGRAM



Thanks, Merci, Gracias y CIAO! jmajor@telemedicine.arizona.edu



