



Mobile Phone-Based Telemedicine Platform for Remote Diagnosis, Assessment & Management of COVID-19



Real-time intervention

telmedx mobile telemedicine platform

- High-resolution live video and photos from a mobile phone to a web browser
- Audio via regular phone call
- Any connectivity, any bandwidth - cellular, Wi-Fi, satellite
- Frame rate reduced to increase resolution of video and photos



Hi-res for clinical decisions

Hi-res video and photos side-by-side

- Hi-res photos can be zoomed in to show details of medical condition
- High-resolution images in any bandwidth
- Physician or nurse take photos from browser
- No video or photos saved on telmedx servers, but doctor can save photos to an EHR




Web browser user interface

The screenshot displays the Telmedx web browser user interface, which is designed for medical professionals to interact with patients via video and photos. The interface includes a top navigation bar with the Telmedx logo, a 'Group Portal' link, and user information (West, All Users, Log Out). The main content area is divided into several sections:

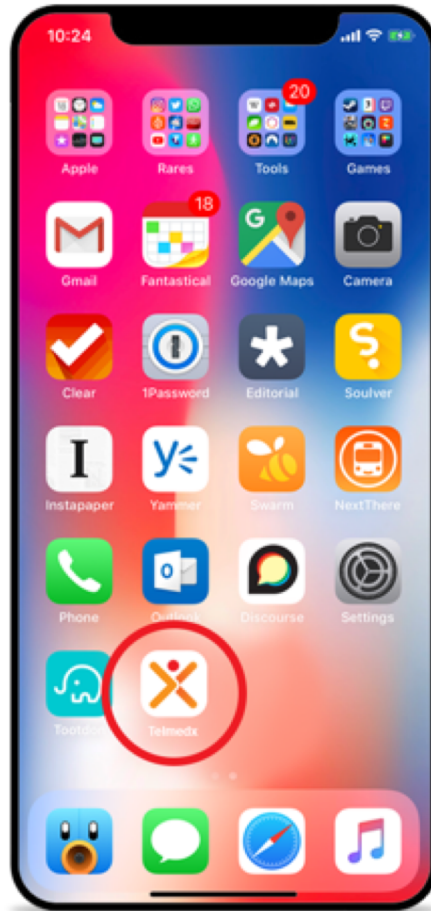
- Live Video:** A large video feed showing a patient's eye. It includes a 'Switch Cameras' button and a 'Take Photos' button.
- Photo Gallery:** A grid of four small thumbnail images of the patient's eye.
- Text on Photo:** A text input field for adding notes to the photo.
- Annotations:** A toolbar with icons for 'Arrow', 'Square', 'Circle', and 'Color' to mark specific areas on the photo. A 'Zoom In / Out' button is also present.
- Notes:** A text input field for adding notes to the photo.
- Save Photo + Text:** A button to save the photo and its associated text.
- Save Photo + Notes Together:** A button to save the photo and its associated notes together.
- High Res Photos:** A button to download high-resolution photos.
- Text Messages:** A section for sending and receiving text messages.

Labels with lines pointing to specific UI elements include: Rotate Video, Photo Gallery, Text on Photo, Arrow, Square, Circle, Color, Zoom In / Out, Switch Cameras, Live Video, Take Photos, Turn On Lights, Add Notes, Save Photo + Text, Notes, Save Photo + Notes Together, High Res Photos, and Text Messages.

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Mobile phone apps





Rapid deployment

telmedx platform rapidly deployable

- Secure cloud server (AWS)
- iOS and Android apps (patient and remote caregiver mobile phones)
 - Easy to scale up quickly
- Web browser user interface
 - Multiple specialists, physicians, nurses can view the same video feed simultaneously



Advantages

- Reduce exposure for medical staff
- Users typically learn to use telmedx in just a few minutes, without any prior experience ... virtually no training required
- Cost effective
- Rapidly deployable ... easily scalable
- HIPAA, HITECH, EU GDPR compliant
 - Fully encrypted end-to-end



Use case of platform

Deployed by Kaiser Permanente NW in Home Health, Wound Care since 2013

- More than 600 video diagnostic sessions per month
- National report on program:

<http://www.thepermanentejournal.org/issues/2019/spring/7133-home-health-virtual-complexivist-physician-program-leveraging-increased-scope-of-care-at-a-crucial-time.html>



For additional information

- Live Demonstration
- Testing and Experimentation
- Pilot Program
- Deployment

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