

MED STREAM™

USER MANUAL

Model: MedXStream Android
U5014-03, 1.0 2014-12-30



MEDXSTREAM.COM

ICON LEGEND	2
CONNECTING TO NETWORK	3
Connecting Video Recorder to Network	3
Connecting Android Device to Network	3
CONNECTING TO DEVICES	4
Connect to Last Video Recorder	4
Select Other Video Recorder	4
Scanning For Devices	4
Manually Connecting	5
Fields	5
Usernames and Passwords	5
DEVICE	6
Device Home	6
Device Information	6
REVIEW/CASES	7
Local vs Remote	7
Local	7
Remote	7
Searching Cases	8
Deleting Cases	8
Case Information	9
Downloading Stills/Videos	9
Average Downloading Speeds	9
Average USB Downloading Speeds	9
Viewing Stills/Videos	10
Deleting Stills/Videos	10
Video Playback	11
Emailing Stills	11
Opening Stills/Videos 3rd Party	12
Printing Stills	12
Downloading Stills to 'Gallery'	13
Opening Stills from 'Gallery' in 'Google Slides'	13
WORKLIST	14
Adding/Editing Cases	14
Deleting Cases	14
KEYPAD	15
Compatible Devices	15
SETTINGS	16
Ignoring Patient Data	16
FEEDBACK	17



-  Allows the user to Connect to the Last Video Recorder selected.
-  Makes visible all Video Recorders the user has the option to Connect to as well as allow the user to Manually Connect a Video Recorder.
-  Access to viewing all Locally Stored Cases.
-  Allows access to App and Transfer Settings.
-  Access to the Quickstart Guide and User Manual.
-  Submit user Feedback rating for MedXStream™ or access Contact Information to receive answers to questions.
-  View the Current Case the user has been working on.
-  View all Remote Cases.
-  View user's Worklist.
-  Allows full access to the EvolutionHD Keypad.
-  View Device Information.
-  Disconnect the Video Recorder from MedXStream™.
-  Delete Stills/Videos Remote/Locally.
-  Move back throughout MedXStream™.
-  Add a Photo from user's Android Device's Gallery.
-  Create something new.
-  Rate MedXStream™ in Google Play.
-  Share MedXStream™ via Email.
-  Share MedXStream™ on Twitter.
-  Share MedXStream™ on Facebook.



CONNECTING VIDEO RECORDER TO NETWORK

After unpackaging the wireless adapter, connect the USB and Ethernet cables to the appropriate places on the backside of the wireless adapter. Connect the other side of the USB and Ethernet cables from the wireless adapter to the back of the Medical Video Recorder in the Network and USB slot. Navigate to the 'Network Settings' page to verify that the Video Recorder has an IP assigned to it. This is the IP address that will be used to connect MedXStream™ to the Video Recorder (Figure 1).

FIGURE 1

DRSHD 1080p



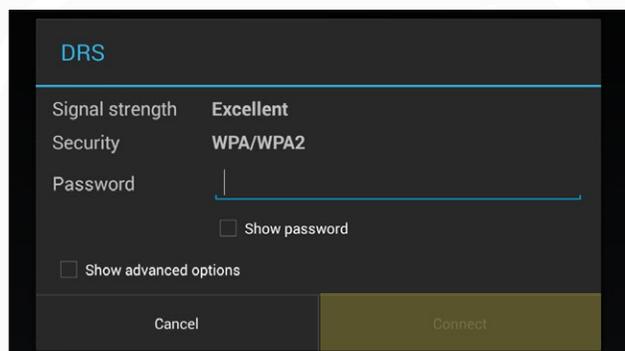
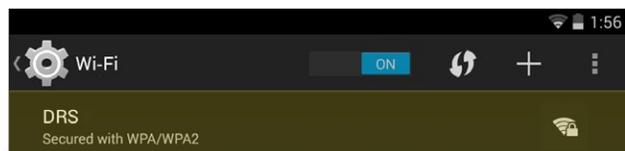
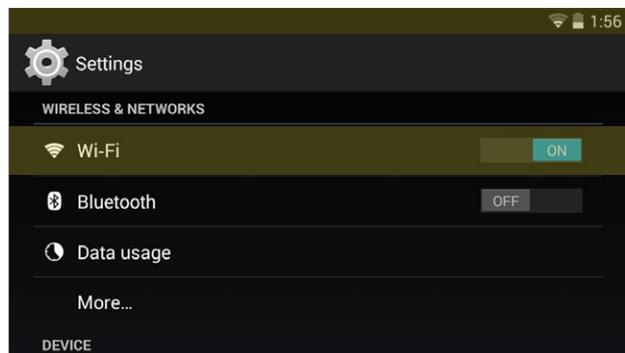
EvolutionHD



CONNECTING ANDROID DEVICE TO NETWORK

To connect the user's Android device to the same network as your Medical Video Recorder make sure your device is unlocked and you are on the 'Home' screen of your device. Tap and drag down the 'Settings' drawer in the top navigation bar of your device. From here tap 'Wi-Fi' to the 'ON' position (Figure 2-1) and select 'DRS' (Figure 2-2). When prompted enter the Password '1234567890,' tap 'Connect' (Figure 2-3).

FIGURE 2



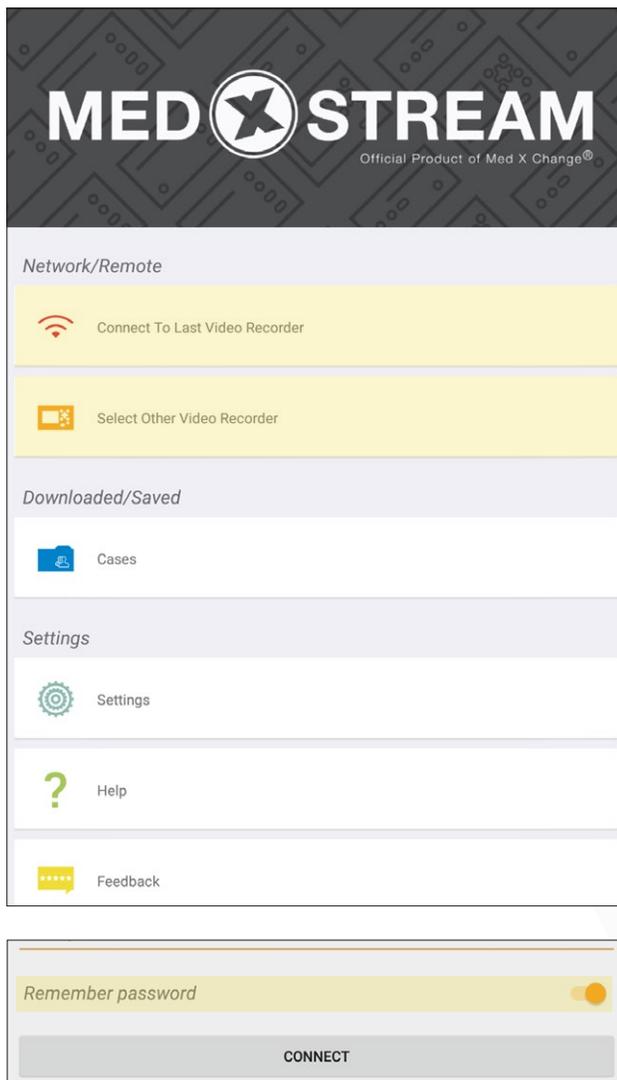
CONNECT TO LAST VIDEO RECORDER

Connecting to Last Video Recorder enables users to quickly access the most recently connected device. Users must have 'Remember Password' in the 'ON' position when connecting to the device to enable connecting instantly. If users do not they will be prompted to enter their password every time (Figure 3-2).

SELECT OTHER VIDEO RECORDER

Browse and connect to Video Recorders by either scanning for them or manually connecting to them by tapping 'Select Other Video Recorder' (Figure 3-1).

FIGURE 3

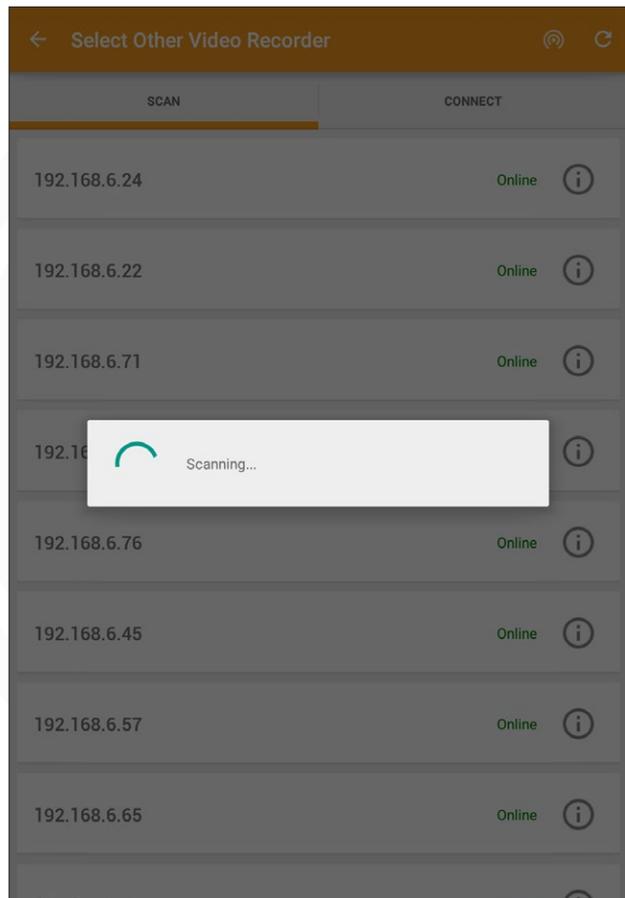
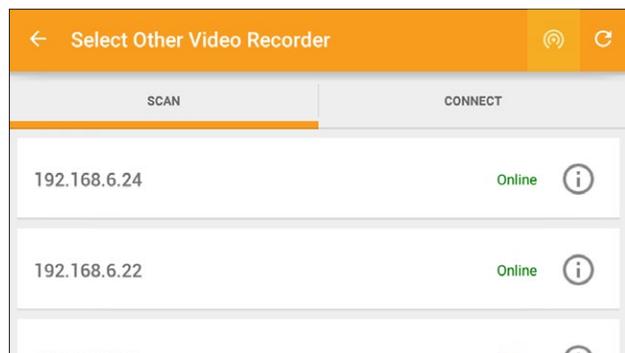


SCANNING FOR DEVICES

To scan for available devices on the same network, tap the scan icon (Figure 4-1). Devices will appear as they are discovered. To cancel a scan early tap outside of the scanning dialogue box (Figure 4-2).

Note: Devices are discovered using a UDP broadcast. Networks must support UDP broadcasting for device discovery to work.

FIGURE 4



MANUALLY CONNECTING

If the user's network does not support device discovery, or if they know the IP address of the device the user would like to connect to, they can connect to it directly (Figure 5-1).

FIELDS

IP Address (required) - user will need the IP address of the device they would like to connect to.

Display Name (optional) - this gives the user the option to rename the device associated with this IP Address (ex: Operating Room 1, etc).

User name (required) - user will need their user name to authenticate against the device.

Password (required) - user will need their password to authenticate against the device.

Remember password (optional) - When enabled, the password entered will be stored. The username is stored by default. To allow for quick connection to a device enable this feature.

After the required fields have been entered, tap 'Connect' (Figure 5-2). A prompt will be given if the device could not be found or the credentials are invalid. Tapping 'Forget' will remove the device from internal storage as if it has never been connected before.

FIGURE 5

← Select Other Video Recorder

SCAN CONNECT

IP Address
192.168.6.24

Display name
Operating Room

Username
admin

Password
.....

Remember password

CONNECT

USERNAMES AND PASSWORDS

Usernames and Passwords are managed on the Medical Video Recorder. Each user added on the recorder has access to it with the MedXStream™ application using his/her username and password (Figure 6-1). To add a New User to the Medical Video Recorder access 'Settings > Security,' highlight the 'Add' button and press 'Enter.' Type a username in the 'User name' field. Type a password in the 'Password' field and retype the password in the 'Confirm password' field. Add any notes if necessary in the 'Notes' section, then highlight the 'Save' button and press 'Enter' (Figure 6-2).

Each recorder comes with a default user 'admin' with a password of 'admin.' Although the default 'admin' user is technically a user, it cannot be used without first changing the default password of 'admin.' This is to ensure that unauthorized users cannot access the system with default credentials that are shipped with every Video Recorder.

FIGURE 6

IP Address
192.168.6.24

Display name
Operating Room

Username
csmith

Password
.....

Remember password

CONNECT

Add user

User name

Password

Confirm password

Notes

Save Cancel Delete

DEVICE HOME

(Figure 7)

Current Case - allows user to view the current case being performed on the device. If no case is currently in progress, a notification will be given.

Review - allows user to review all the cases on the device. Cases, stills and videos can be downloaded in this section.

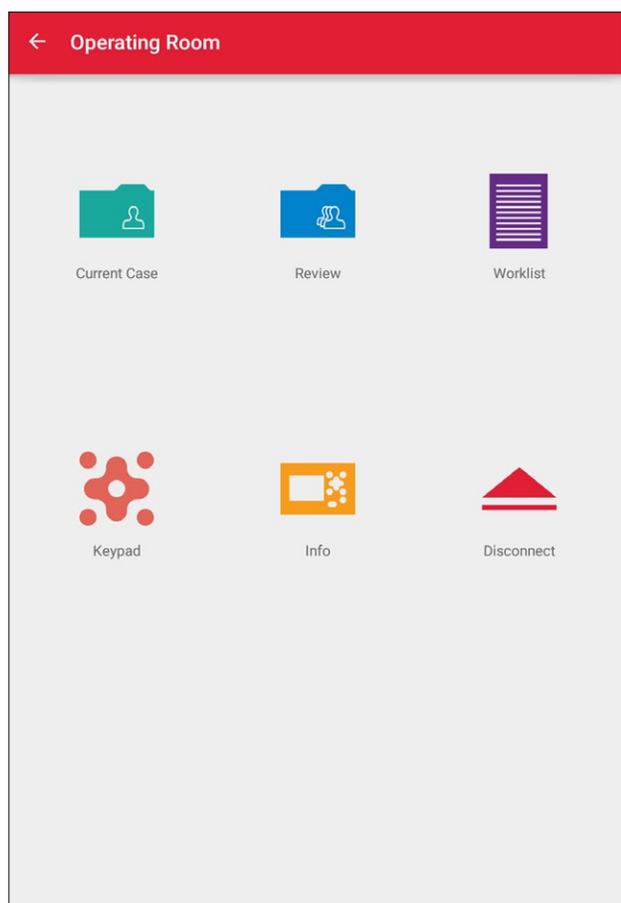
Worklist - allows user to manage (add/update/remove) the worklist on the device.

Keypad - this feature is only visible when connecting to an EvolutionHD™ Medical Video Recorder. A keypad and keyboard can be used to control the EvolutionHD™ remotely.

Info - this displays information/settings about the currently connected Video Recorder.

Disconnect - allows user to disconnect from the device.

FIGURE 7



DEVICE INFORMATION

The Device Information page is used to display information about the connected Video Recorder, as well as manage a few settings (Figure 8).

Display Name - the friendly name of the Medical Video Recorder (Operating Room 1, etc).

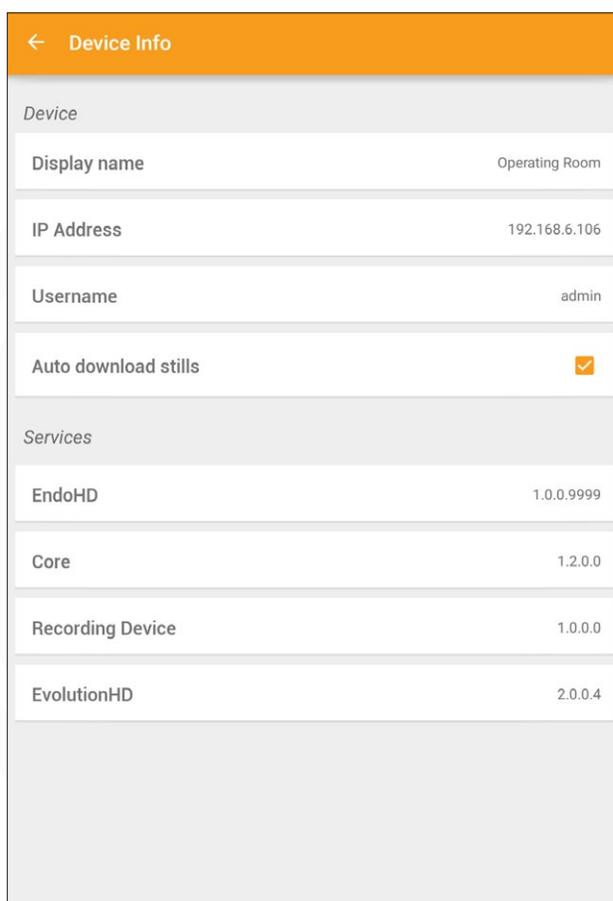
IP Address - this is the IP Address of the connected Medical Video Recorder.

Username - shown here will be the username that was used to connect to the device.

Auto download stills - when enabled and when the MedXStream™ app is available, stills from the current case will be automatically downloaded without any action needed if selected.

Services - a list of all the services and their versions running on the connected Medical Video Recorder will be shown here. This is useful for feature and support requests.

FIGURE 8



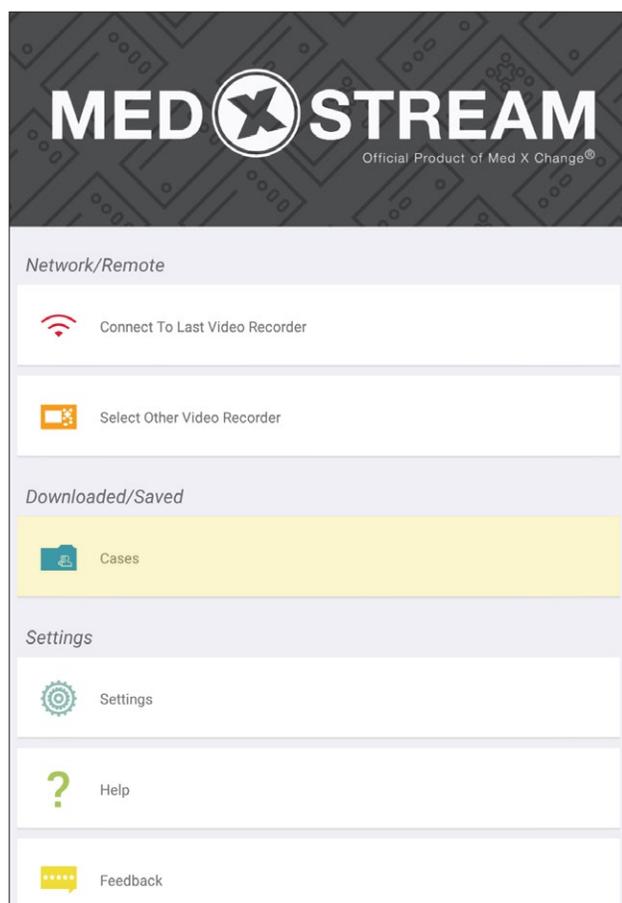
LOCAL VS REMOTE

There are two ways to browse cases in the MedXStream™ app. Each mode has a similar user interface with slightly different actions available to the user.

LOCAL

Local cases are accessed using 'Cases' on the Home Page of MedXStream™ (Figure 9). All the cases, stills and videos visible within this section are locally stored on MedXStream™ and can be accessed without a connection to the Video Recorder or Wi-Fi. If multiple cases are downloaded from multiple Medical Video Recorders, they will all appear in this single location. Since media items and cases are stored locally more features are available such as emailing, etc.

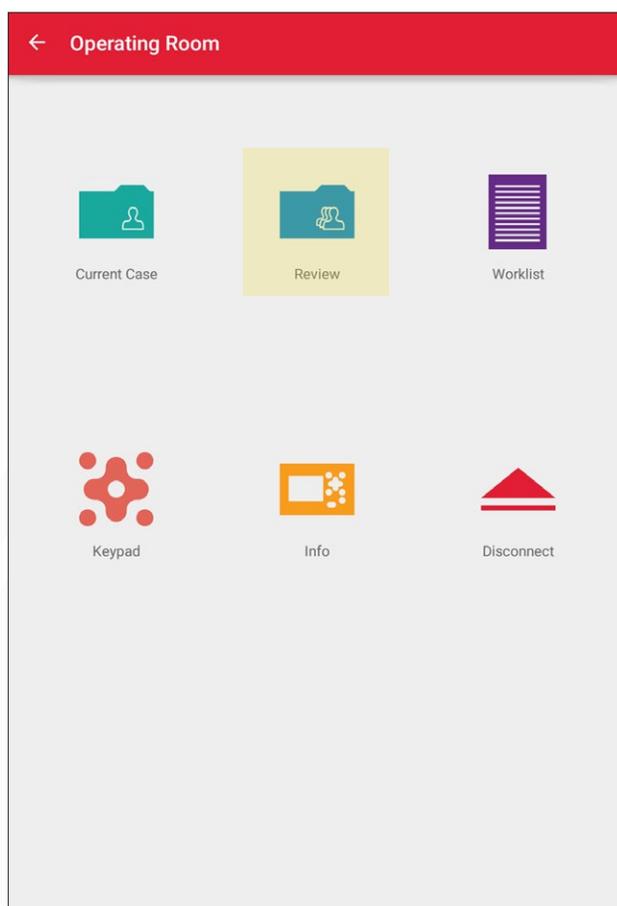
FIGURE 9



REMOTE

Remote cases are accessed when connected to a Medical Video Recorder (Figure 10). Only cases, stills and videos available on the Video Recorder selected will be displayed. Users are unable to perform some actions (emailing, etc) without first downloading stills or videos from this location to local cases. However, if a remote still or video is being viewed, but it has been also found locally (meaning it has been previously downloaded), then the additional actions will become available from within this location (such as emailing, etc).

FIGURE 10



SEARCHING CASES

When reviewing cases (Local or Remote), you may filter your view by providing search criteria. The FirstName, LastName and PatientID fields are used to determine the cases that should be displayed (Figure 11).

FIGURE 11

Case Name	Date
Haakinson, Sue	10/17/2013
Kidd, Louis	10/17/2013
Tellez, Cristie	10/17/2013
Lepine, Julie	10/17/2013
Kyker, Jeanett	10/17/2013
Mayberry, Shawwna	10/17/2013
Vaill, Essie	9/12/2013
Tinnes, Billie	5/21/2013
Laboy, Bernard	4/9/2013
Roudabush, Cruz	3/23/2013

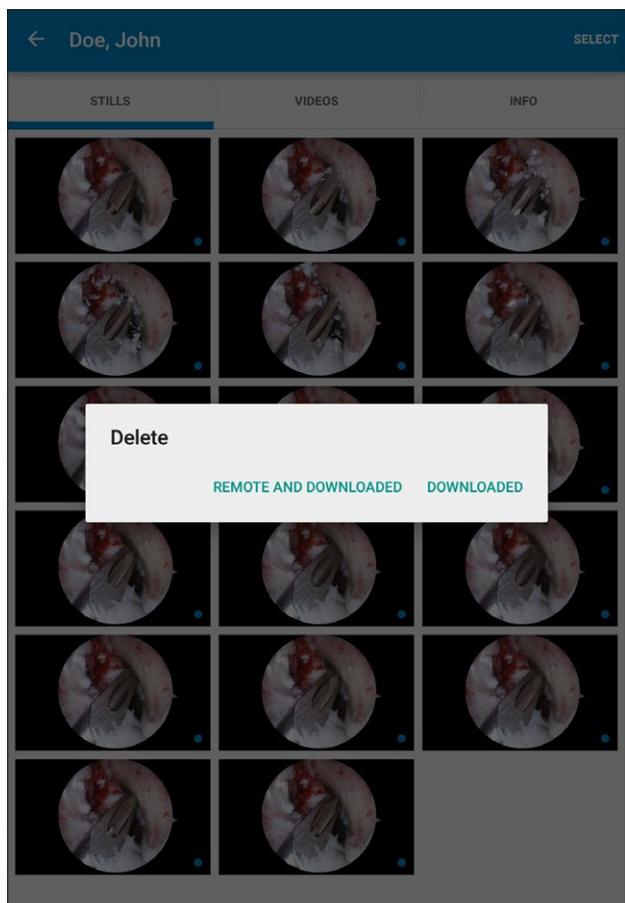
DELETING CASES

Local - when deleting cases from the local section, they will be removed from the internal database and file system.

Remote - when deleting cases from the remote section, you will be prompted to perform one of the following (Figure 12):

- **Delete Locally** - only delete the case locally (if it has been downloaded). If the case has not been downloaded already, the request will be ignored.
- **Delete Remote and Locally** - delete the case from the Medical Video Recorder, as well as the internal database.

FIGURE 12



CASE INFORMATION

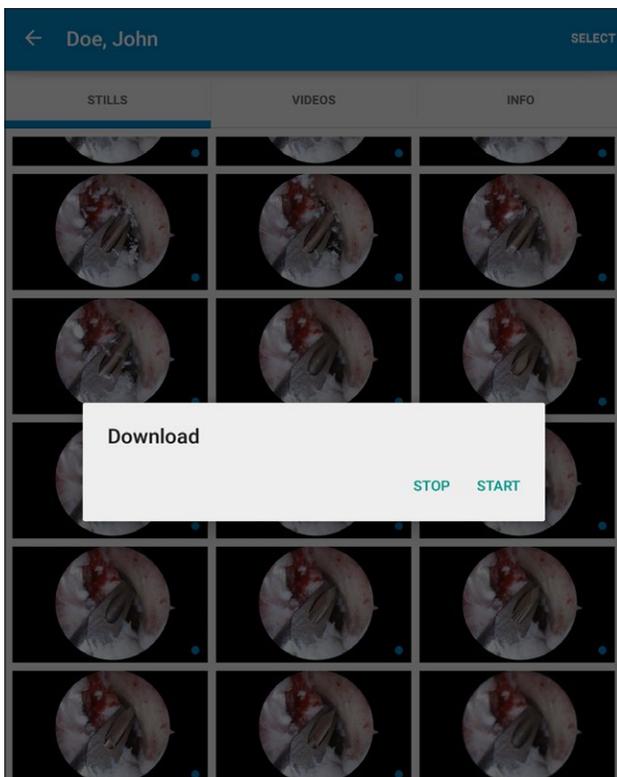
Information about the case may be viewed from the Review section. When connected to a device (remotely), only the configured patient fields will display. When viewing a case locally, all the patient fields will be displayed. No patient data will be present if the 'Stripping Patient Data' feature has been enabled on the Settings page.

DOWNLOADING STILL/VIDEOS

When connecting to a Medical Video Recorder remotely, the user has the option to download stills and videos (Figure 13). Downloads are queued and processed one at a time. When a download has been completed, a blue dot will appear in the bottom right corner of the media item and its associated case will now be available for offline access, emailing, reporting, annotating, printing, etc.

If the user would like to cancel a media item that has been queued for download, follow the same process to download the media item, but instead of tapping 'Start,' tap 'Stop.' This will cancel the download and remove all content associated with the case items that had started downloading.

FIGURE 13



AVERAGE POST CASE NETWORK DOWNLOAD SPEEDS

1080p

QUALITY	:15	:30	1:00	5:00
Low	:09	:33	:56	4:56
Med	:28	:56	1:43	9:06
High	:43	1:23	2:56	14:43

480p

QUALITY	:15	:30	1:00	5:00
Low	:13	:26	:56	4:26
Med	:26	:56	1:43	9:06
High	:33	1:06	2:06	11:33

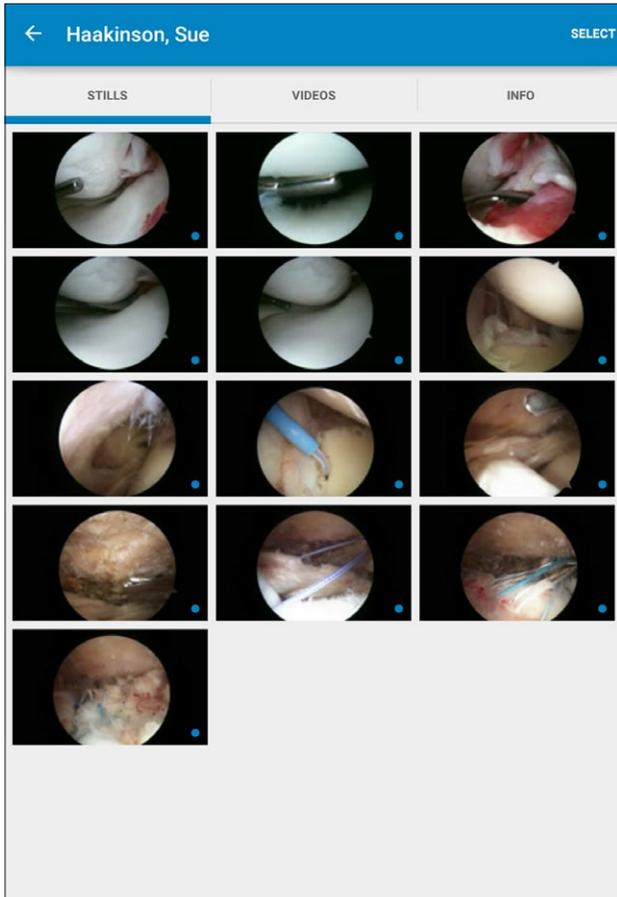


VIEWING STILLS/VIDEOS

When viewing a case, the user has the option to view all the stills or videos associated with the case (Figure 14).

When connected remotely to a Medical Video Recorder, if any new stills or videos are added to the case from the recorder at the time the user is viewing the case in MedXStream™, the newly added stills or videos will automatically appear. Likewise, if any stills or video is deleted from the recorder, they will automatically disappear in MedXStream™.

FIGURE 14



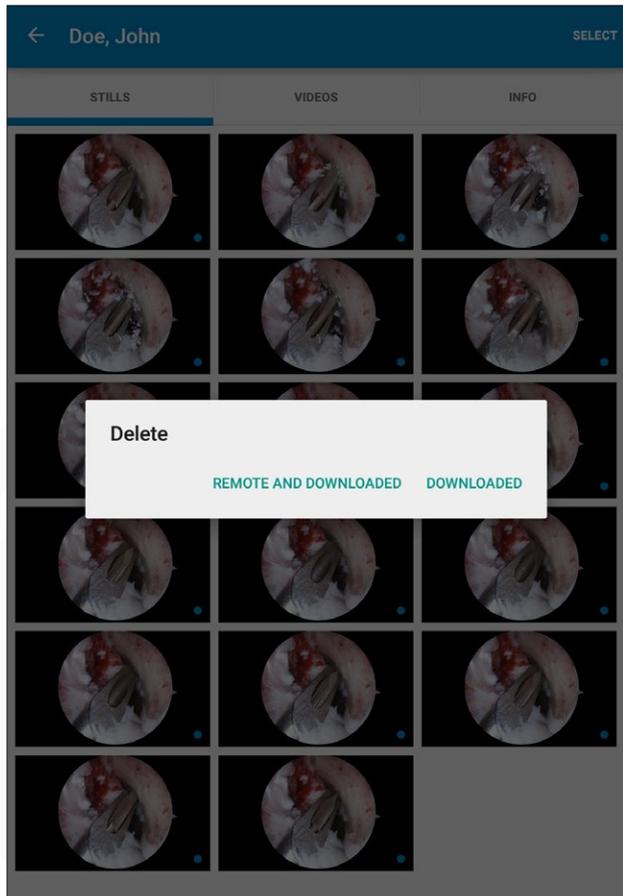
DELETING STILLS/VIDEOS

Local - when deleting media items locally they will be removed from the internal database and file system.

Remote - when deleting media items remotely, the user will be prompted to perform one of the following (Figure 15):

- **Delete Locally** - only delete the case locally (if it has been downloaded). If the case has not been downloaded already, the request will be ignored.
- **Delete Remote and Locally** - delete the case from the Medical Video Recorder, as well as the internal database.

FIGURE 15



VIDEO PLAYBACK

Videos can be played back in MedXStream™. If the video has been downloaded, the local video file will play. If the user is remotely viewing a video, the playback will be live-streamed directly from the Medical Video Recorder (Figure 16).

Note: When live streaming video playback directly from the Medical Video Recorder, large video files may take a few minutes to buffer due to the High Definition video capture by the recorder. For a smoother playback, download videos locally to avoid network buffering.

Note: Videos may be very large and could quickly utilize available disk space within the MedXStream™ application.

FIGURE 16

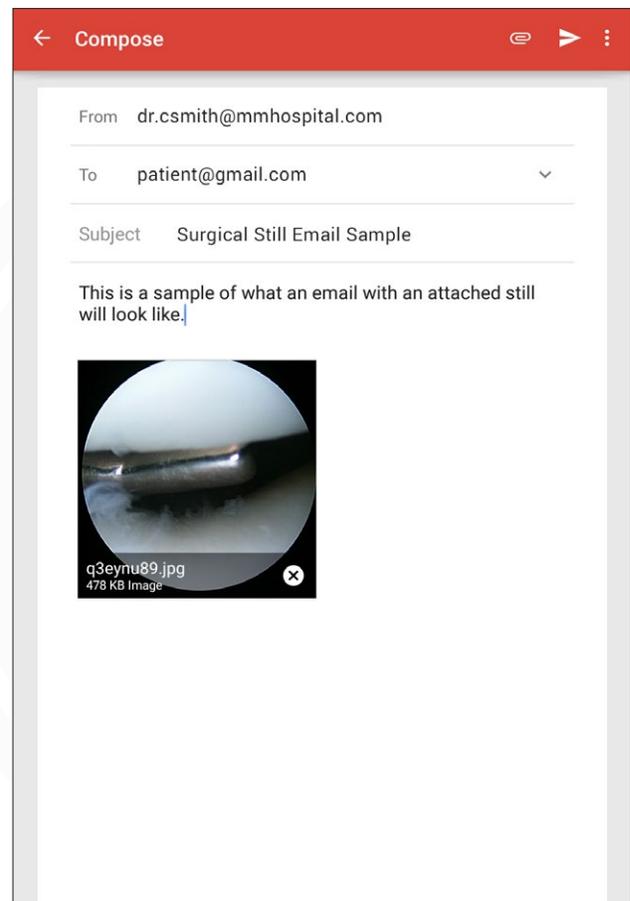
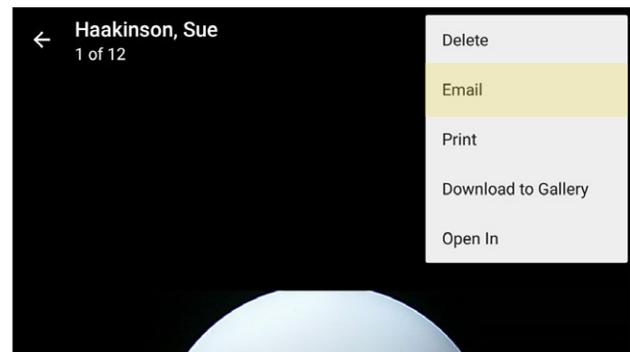


EMAILING STILLS

Still images can be sent by email (Figure 17). Videos are not supported due to file size limitations.

Note: Only downloaded stills can be emailed. To email an image from a Video Recorder, first download the still locally.

FIGURE 17

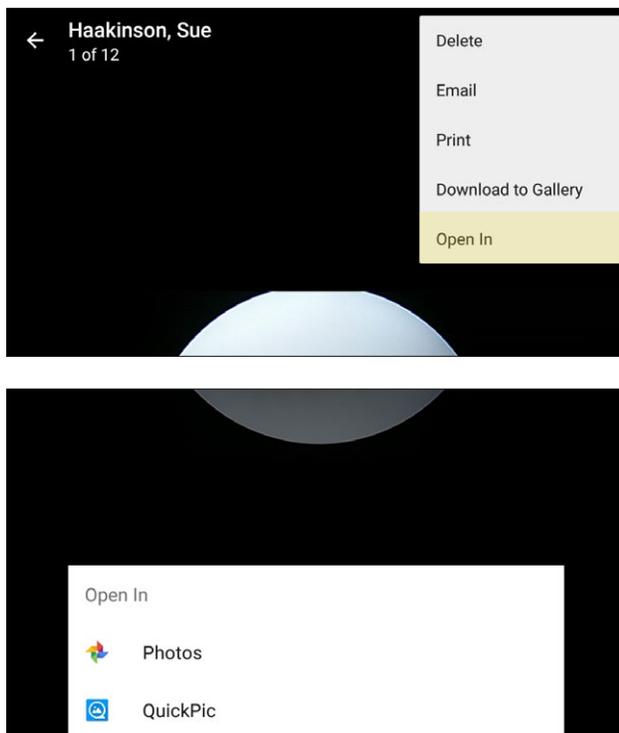


OPENING VIDEOS/STILLS 3RD PARTY

On Android devices, 3rd party applications can register themselves to open certain files. For example, applications can pass videos and PDFs to DropBox (Figure 18).

Note: Only a single video or still can be opened in another application at once. If multiple stills or videos are selected, the 'Open In' option is hidden. The still or video must be downloaded locally.

FIGURE 18



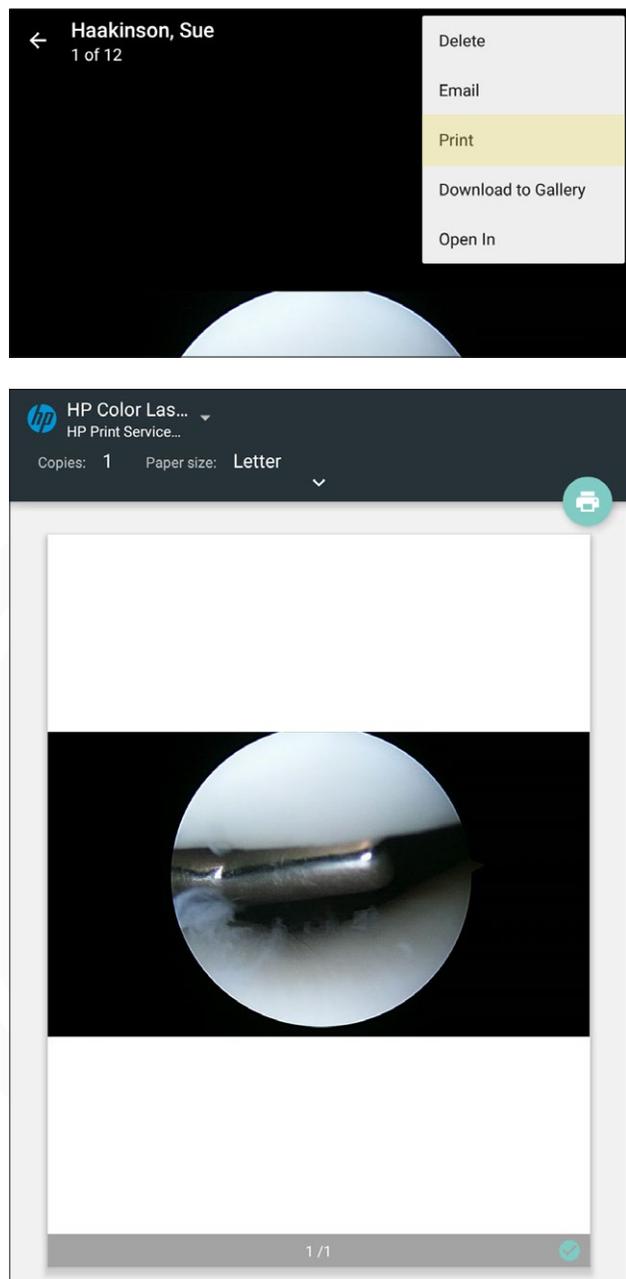
PRINTING STILLS

Multiple stills can be selected and sent to any printer that supports Wireless Printing on the same network (Figure 19). View Google's Cloud Print Basics to see if your Android device and printer are eligible for Wireless Printing.

<https://support.google.com/cloudprint>

Note: Only downloaded stills have ability to be printed.

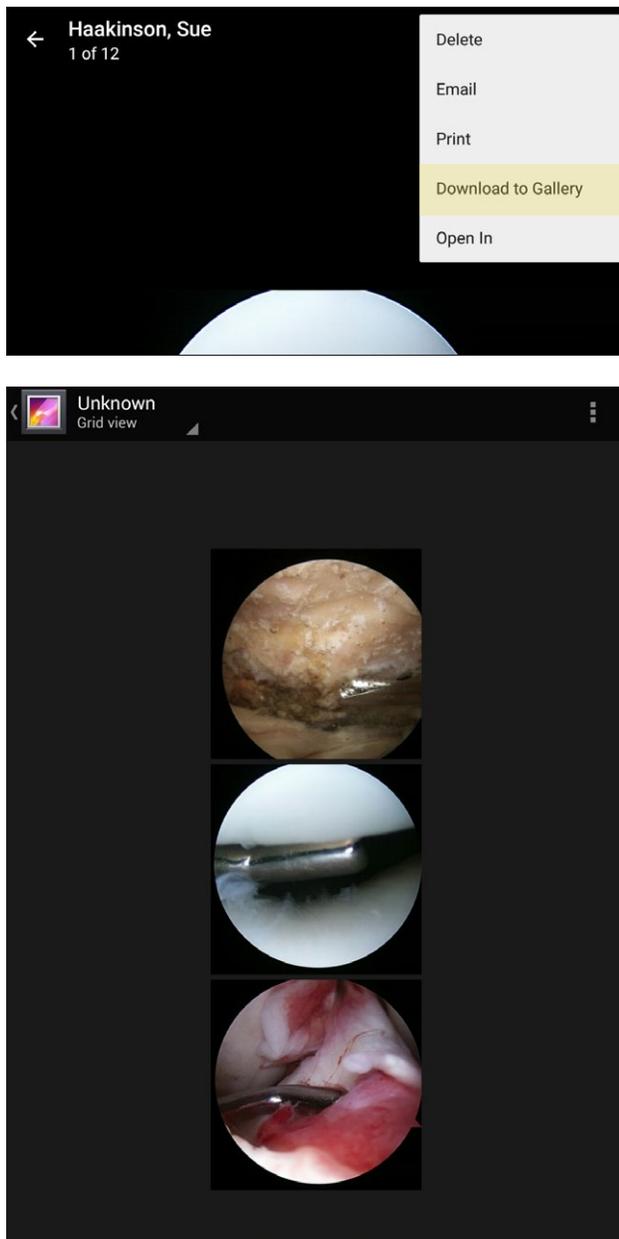
FIGURE 19



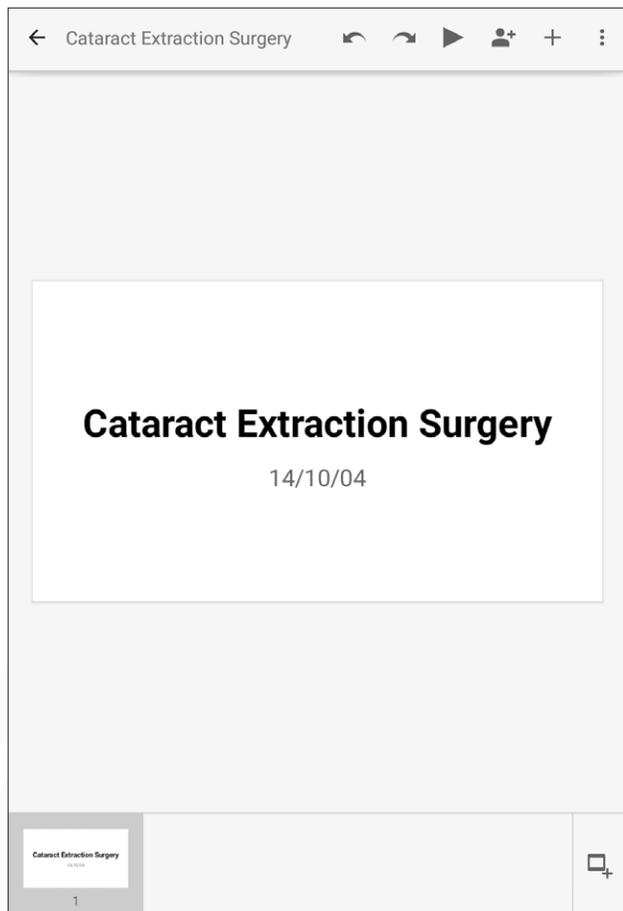
DOWNLOADING STILLS TO 'GALLERY'

Stills can be exported to Android's 'Gallery' application for other uses. Stills are downloaded into the 'Gallery' application and into an album named after the 'LastName, FirstName' of the case. If no data is associated with the case, the media items are added to an album named 'Unknown' (Figure 20).

Note: Only downloaded stills have the ability to be exported to the Photos application.

FIGURE 20**OPENING STILLS FROM 'GALLERY' IN 'GOOGLE SLIDES'**

By saving stills to 'Gallery' the user has the option to use 'Google Slides' to reopen their images and add them to a current or new presentation (Figure 21).

FIGURE 21

WORKLIST

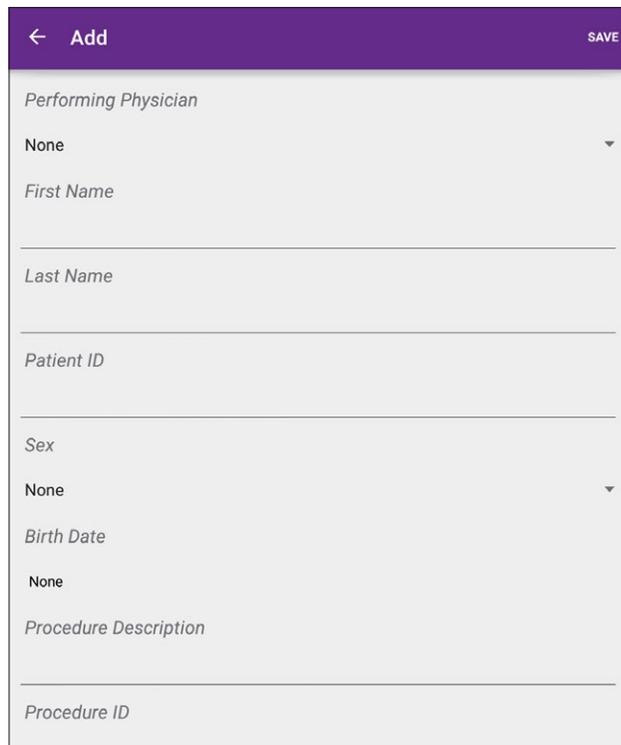
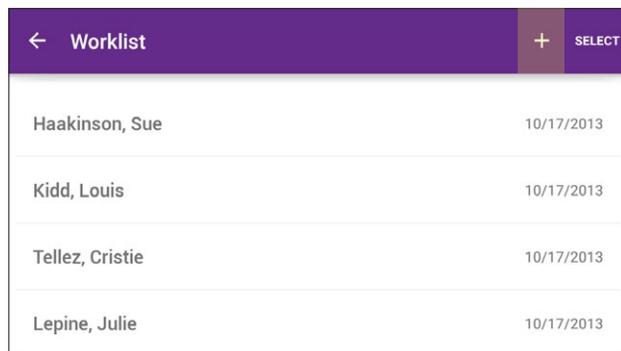
Your worklist on the Medical Video Recorder can be managed from MedXStream™. Worklist gives the user the option to pre-populate with patient data to allow for quick access the day of their surgery.

ADDING/EDITING CASES

To add or edit a case, either tap '+' or select a case from the worklist you would like to edit (Figure 22-1).

Each case can have a performing physician and each physician has a set of enabled/disabled/custom fields. When changing the performing physicians, the worklist will display only the relevant fields needed for adding and updating cases (Figure 22-2).

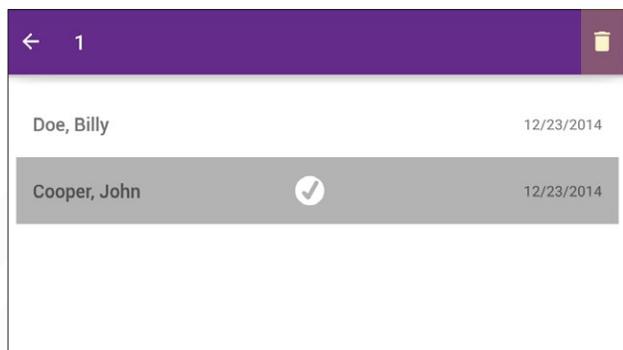
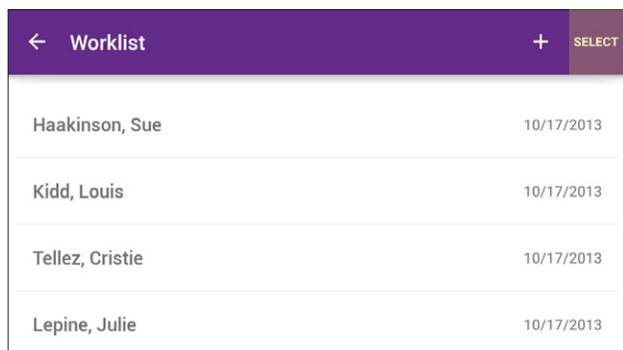
FIGURE 22



DELETING CASES

When viewing all the cases in the worklist, you can delete individual cases by tapping 'Edit' and selecting the patients you want to delete then tapping the trash can icon(Figure 23-1). You can also select cases to delete by taping and holding your finger on the patient field until it is selected followed by tapping the trash can icon (Figure 23-2).

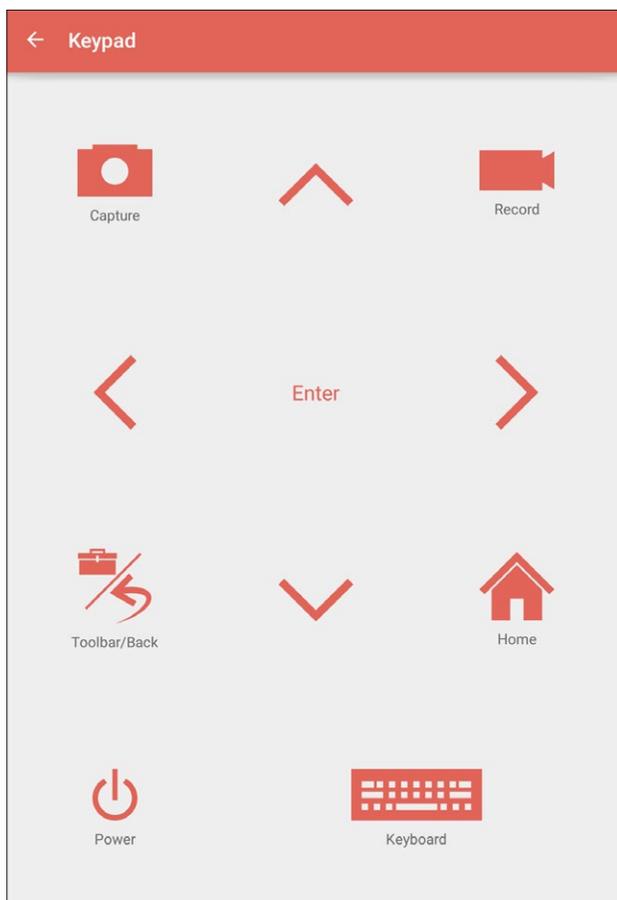
FIGURE 23



KEYPAD

With 'Keypad' in MedXStream™ users are able transform their Android device into a portable remote and keyboard. This remote allows te user to have full control of the Medical Video Recorder's functions (Figure 24).

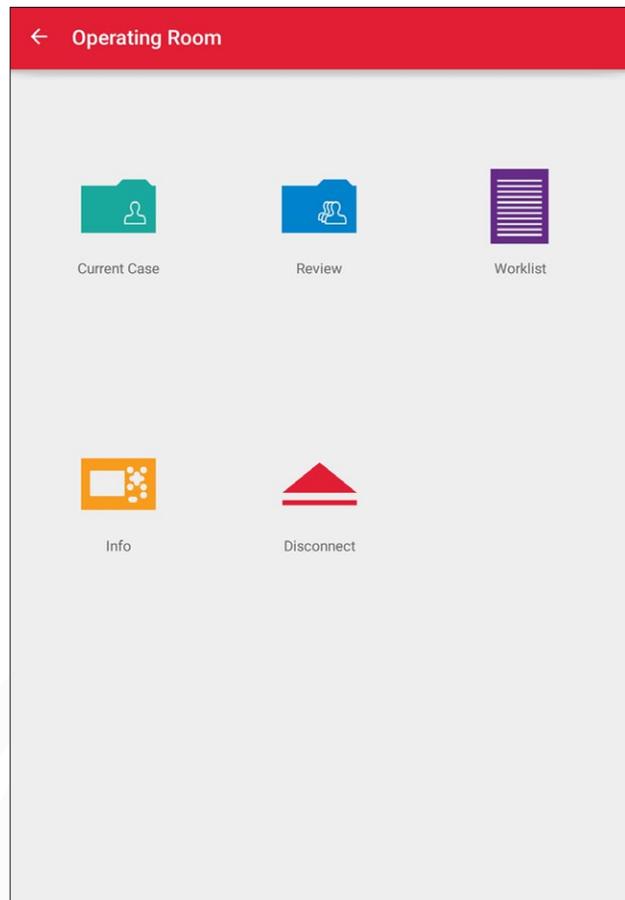
FIGURE 24



COMPATIBLE DEVICES

For the time being, the only Device compatible with 'Keypad' is the EvolutionHD™ Medical Video Recorder. If connected to another recorder the keypad icon/feature will not appear (Figure 25).

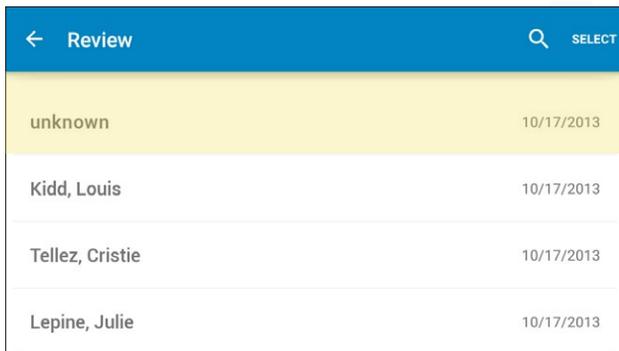
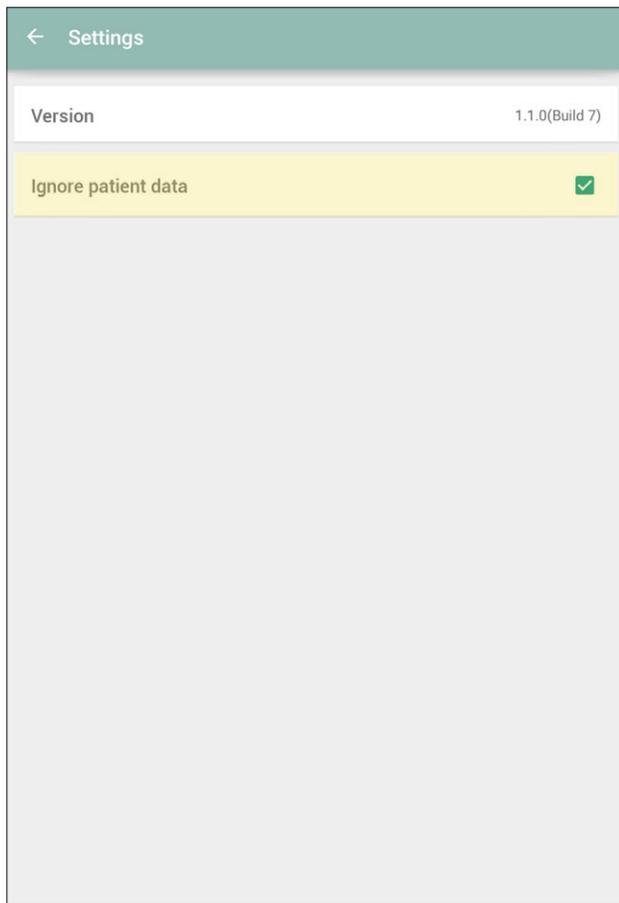
FIGURE 25



IGNORING PATIENT DATA

When 'Stripping Patient Data' is enabled, all cases and media items downloaded from a Medical Video Recorder will have all patient data removed (Figure 26-1). It will appear locally as an 'Unknown' case (Figure 26-2).

FIGURE 26



FEEDBACK

To share MedXStream™ on Social Media or Email tap the 'Feedback' icon on the Home page of the App. If the have any questions or concerns you can contact us by Phone or Email by selecting your preference below the sharing options (Figure 27).

FIGURE 27

