PROJECT 1: VANDERBILT DERMATOLOGY IMAGING CLINIC

What problem are we trying to solve?
1. Prevent delays to schedule a Vanderbilt Adult Dermatology appointment for patients with worrisome skin lesions

Proposed solution
1. Create a new clinic where patients can be seen in less than 7 days
2. Obtain high quality photographic images of worrisome skin lesions using state of the art equipment by a trained dermatology nurse
3. Review the store and forward images by a Vanderbilt dermatologist in 2 days and communicate results to patients

PROJECT 1 WORKFLOW

Store and Forward Teledermatology
Vanderbilt Dermatology Imaging Clinic

1. Worried Patient
2. Lesion Photographed at OCHO Dermatology Clinic by Nurse
3. Image Stored
4. Image Forwarded and Evaluated by Teledermatologist
5. Diagnosis and Recommendation Sent to Patient

PROJECT 1 EQUIPMENT AND SAMPLE PHOTOGRAPHS

Case 1
- Macroscopic Image
- Dermoscopic Image
- DIF: melanoma-in-situ

Case 2
- Macroscopic Image
- Dermoscopic Image
- Polarized light
- DIF: invasive melanoma

PROJECT 2: PEDIATRIC TELEDERMATOLOGY FOR DOT 8 CLINIC

What problems are we trying to solve?
1. Prevent delays to schedule a Vanderbilt Pediatric Dermatology appointment for children with difficult to manage skin diseases
2. Avoid inconvenience and lost wages for parents who need to book a face-to-face visit to see a pediatric dermatology specialist
3. Reduce higher than average no show rate for children on TennCare due to socioeconomic factors

Proposed solution
1. Create a teledermatology platform using existing modules in the EPIC EMR
2. Train pediatric healthcare providers to use the Haiku App to obtain high quality clinical photographs of children in the DOT 8 clinic
3. Review the store and forward images by a Vanderbilt pediatric dermatologist in <3 days and communicate results

PROJECT 2 WORKFLOW

Store and Forward Teledermatology
Vanderbilt Pediatric Teledermatology for DOT* 8 Clinic

1. Child with unusual rash in DOT 8 Clinic
2. Rash photographed by healthcare provider
3. Image Stored
4. Image Forwarded and Evaluated by Teledermatologist
5. Diagnosis and Recommendation Sent to Provider and Parent

VUMC TELEDERMATOLOGY CHALLENGES AND OUTCOME MEASURES

1. Maintain high quality images to render the most accurate diagnosis
   Outcome measure: Grade quality of images and give feedback to imager. Target: 80% high quality

2. Payment for teledermatology store and forward services
   Note: Only TennCare and Vanderbilt Aetna health plans will pay for these services. Imaging Clinic will charge $75 per visit for those with no coverage.
   Outcome measure: Monitor revenue from TennCare and Vanderbilt Aetna health plans. Target: 80% collections

3. Access for patients requiring skin biopsy based on teledermatology findings
   Outcome measure: Monitor length of time from result communication to skin biopsy visit. Target: 2 weeks