

OrthancCon 2019

Telemedecine using Orthanc Two use cases at CHU Liège

Canivet Grégory – Gérard Christophe CHU Liège - SAI





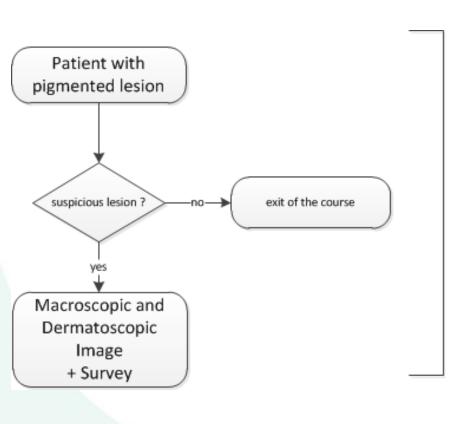
- Skin cancer has risen sharply in recent years
- In 2015, he is the 4th most frequent among women
- 2000 new cases were detected and an increase of 49% is speculated by 2025
- Having an appointment at the specialist for a consultation can take 8 to 12 weeks

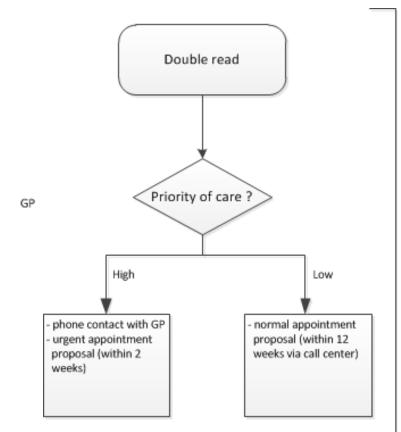


- Propose a rapid and reliable diagnostic aid in the face of a suspicious pigment lesion
- Accelerate the care of very suspicious malignant lesions
- Revalorize the first line of care in screening and early diagnosis
- → Creation of a specialized tool for general practitioners
 - → TeleSPOT: Teledermoscopy Smartphone-based Pigmented lesion diagnosis Online Taskforce



Workflow





Dermatologist



Equipment

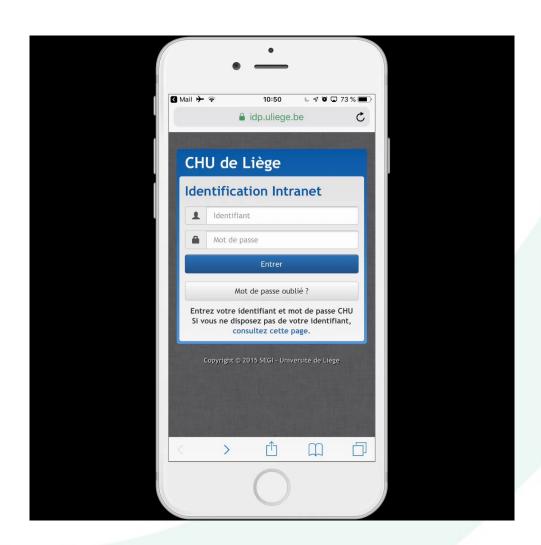
- Macroscopic image: from the smartphone camera
- Dermatoscopic image: Via Heine IC1 device



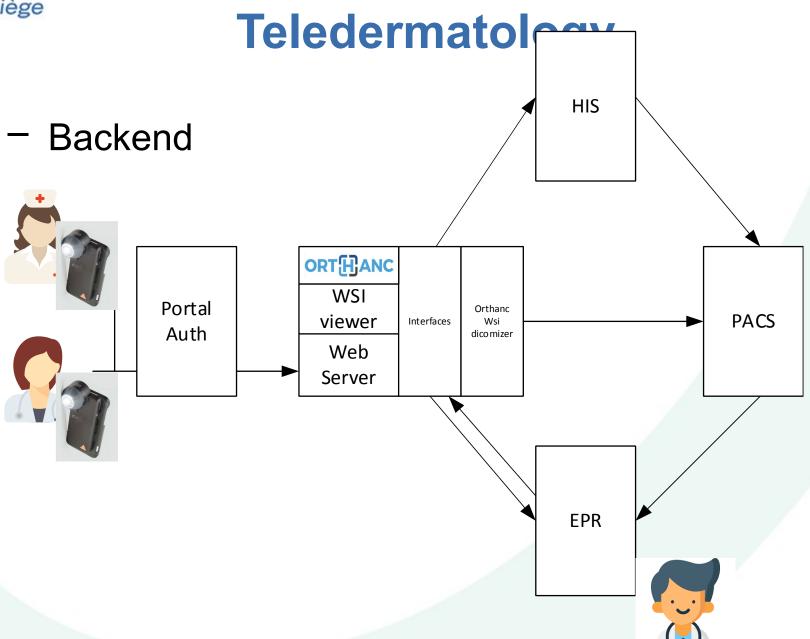




- Demo

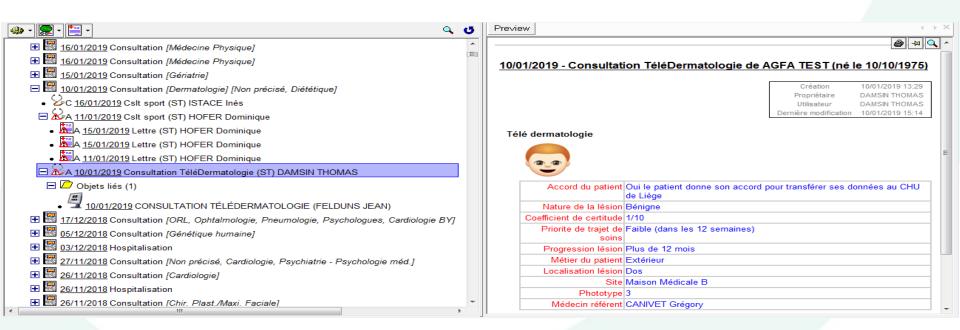






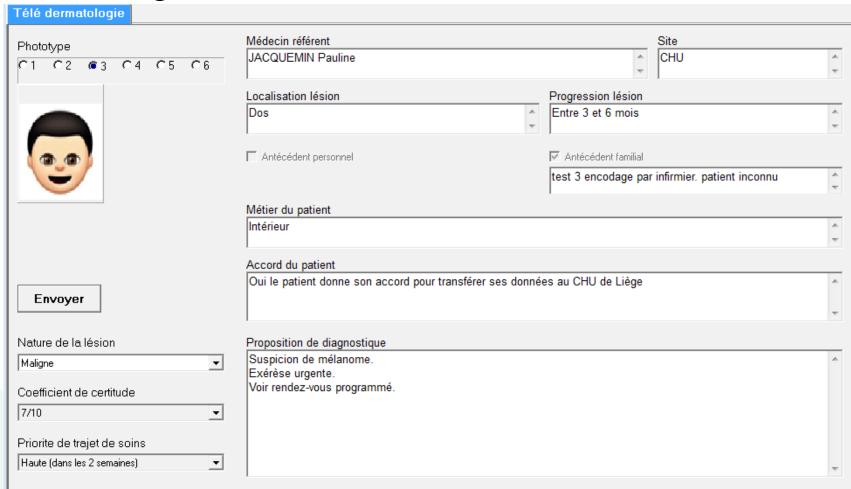


- Integration :
 - With EPR for the specialist
 - Notification by internal mail + FollowUp





– Integration :





Integration :

- At the doctor's office :
 - Notification via email with contextual link to the result
 - eHealthBox messaging
 - Phone contact in cases of suspicious lesions with high priority

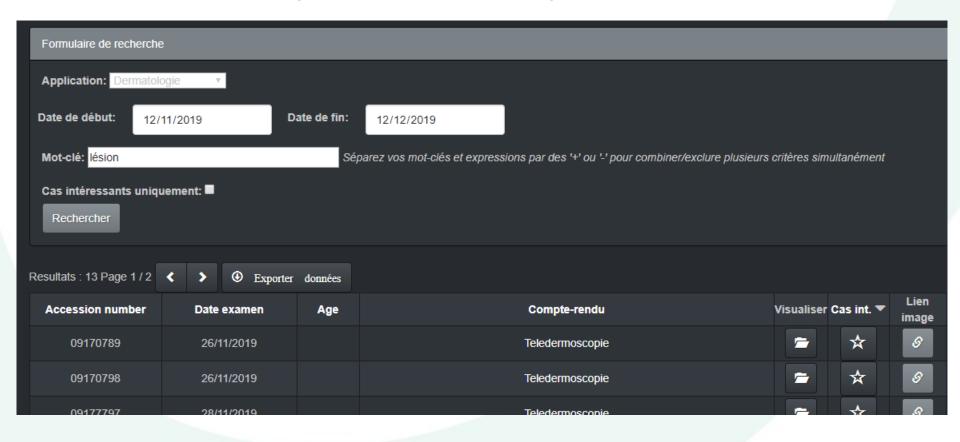


Benefits:

- Results within 5days
- No need to wait 3months for an appointment
- Patient does not have to travel far for the first contact
- GP learns from the results
- Less appointments for benine lesions
- Optimize appointments for suspicious/malin/urgent cases



- Linked with pedagogic database
 - Images numerized and labeled / anonymized
 - Junior dermatologists can look for interesting or similar cases





- Frozen Section dicomization and transfert using Orthanc
 - L'examen télé-extemporané

Définition.

Examen au microscope par un anatomopathologiste d'un prélèvement frais durant une opération chirurgicale.
Les résultats de cet examen, immédiatement disponibles, donne au chirurgien la possibilité d'adapter son acte pendant l'opération

Frozen section

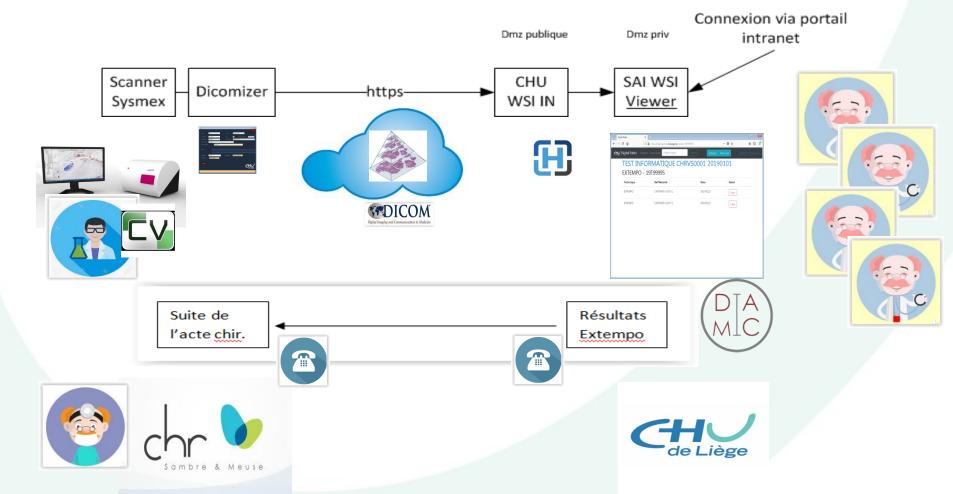
Examination under the microscope by a pathologist of a fresh sample during a surgical operation. The results of this examination, immediately available, give the surgeon the possibility of adapting his act during the operation



- The pathologist has 30min max to give the diagnosis
- Prelevement site is 1h drive from CHU
- Diagnosis time is 10min max.



Workflow

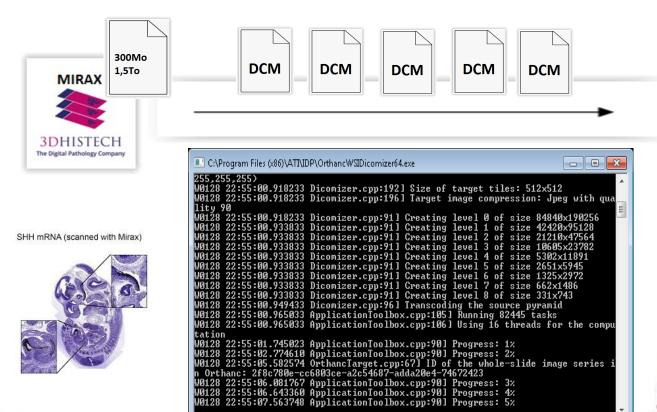




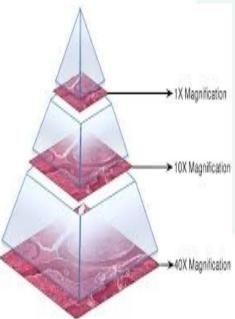
| en√ IDP | | | | - 🗆 × |
|-------------------|--------------|-----------------|-----------------------|----------------|
| | | | | Administration |
| Nom: | CANIVET | Prénom : | GREGORY | |
| Id. Patient : | 12345 | Sexe : | M Date de Naissance : | |
| Num. Diamic : | | Réf. Matériel : | | |
| Desc. examen : | | | | |
| Desc. technique : | | | | |
| | | | | |
| Fichier : | | | | |
| | | | | |
| Institution : | CHU | Pathologiste : | Thierry Leroy | |
| Technicien : | Technicien 4 | | | |
| | | | | |
| Envoyer | | | | |



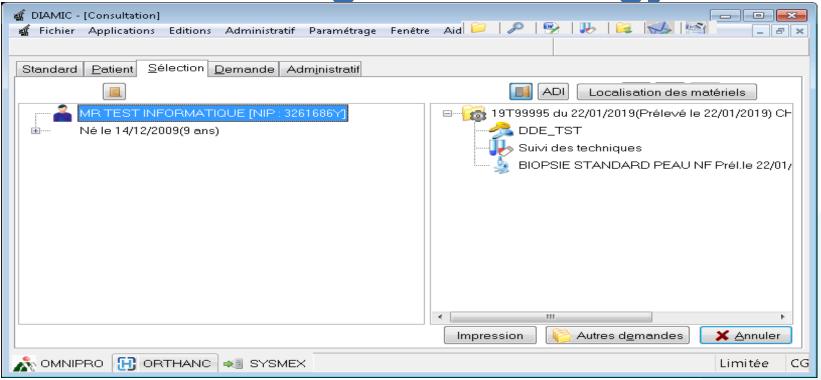
Digital Pathology
Dicomisation du format Natif Mirax





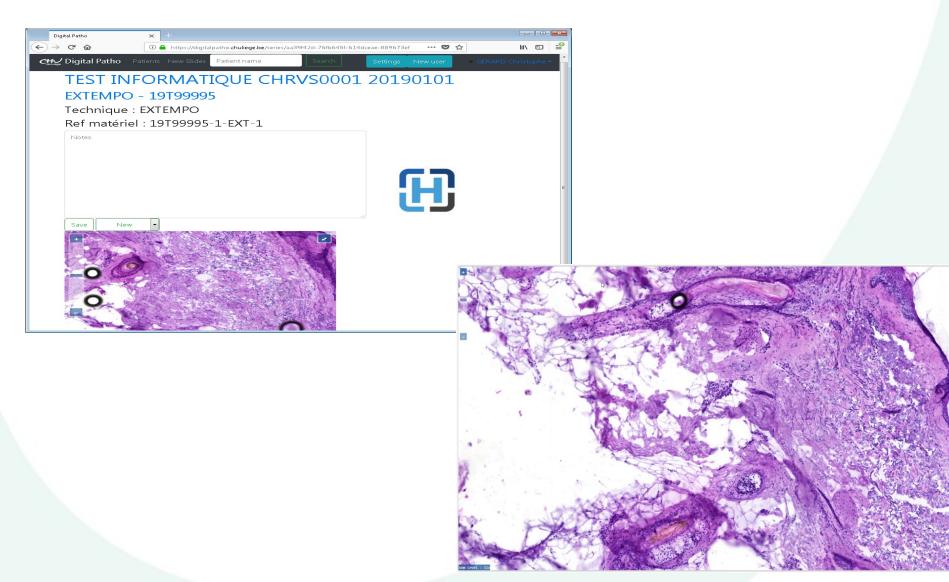














- 1 transfert takes 5min
- Integrated in the patient record
- Monitoring tools
- Fall back apps



Thank you!

Questions?