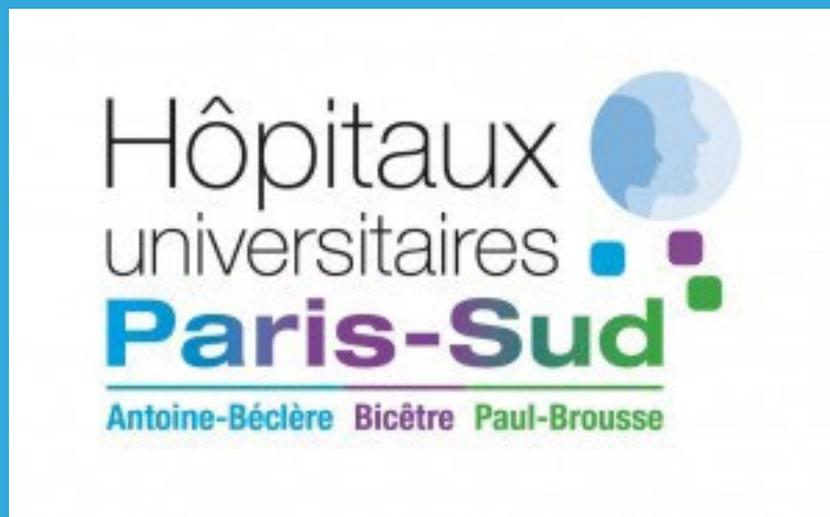


## Tele-pathology: a solution in response to the reorganization of the laboratory



Paris-Sud University Hospitals are a group of three institutions: Antoine Béclère, Bicêtre and Paul Brousse.

They form a major group in innovation at the service of patients in the south of Paris Region. These are centres of reference for many diseases.

In addition to its healthcare missions, the hospital group is also a leading teaching and research centre. In the field of digital pathology, Paris-Sud university hospitals are among the pioneers. They already incorporate a large number of innovations, especially in imaging.

Encouraged by doctors committed to the development of the profession and its practices, digital pathology continues to develop for more daily use.

### The deployed solution:

The group's pathology imaging has been managed for several years by CaloPix software for image visualization and indexing. Thanks to the CaloPix Pocket web application, images are easily shared and viewed remotely from any workstation in the hospital.

In direct link with the laboratory's management system, CaloPix allows the association of images with patient data. TRIBVN Healthcare also equips Paris Sud university hospitals with its macroscopic solution: Macro by TRIBVN. Linked to CaloPix, it allows to take pictures of the surgical parts and to illustrate the reports. In addition to the production of microscopy images by digital cameras, doctors also have virtual slide scanners at their disposal. These are automatically imported from the scanner into the corresponding patient folder and stored in the centralized image database.



With the introduction of virtual slides in the departments, doctors have reorganized the workflow. The TeleSlide telepathology solution, dedicated to tele-extemporaneous examinations, has been deployed between Paul Brousse and Bicêtre hospitals.

This made it possible to respond to the problems of distribution and availability of doctors between the sites. The extemporaneous diagnosis can now be made remotely via a screen reading of the slide. It is promoted by close collaboration between doctors and technicians.



The latter benefit from video synchronization between the sites in order to communicate instantly. The department's doctors now use image analysis algorithms developed by TRIBVN Healthcare. These tools are used in particular for the quantification of hepatic fibrosis and the analysis of TMA slides.

The benefits:

- Introduction of new practices
- Standardization of information systems
- Workflow optimization

In the long term, the service wishes to extend the use of digital pathology for diagnostic purposes and thus be able to diagnose a case on the screen with a virtual slide.

## Testimonies

**Pr Catherine Guettier**

**Head of the Pathological Anatomy-Cytology Department of the Bicêtre/  
Paul Brousse hospitals**

« This migration to CaloPix 3.0.0 brings real added value to our services. »

« CaloPix is a daily tool for the medical team. It is used in macroscopy, in the management of extemporaneous remote examinations or to use virtual slides. The easy introduction of macroscopic photographs into the reports is greatly appreciated by our clinical colleagues. »

« Such a practice has made it possible to reorganize the work between Paul Brousse and Bicêtre and to release time for physicians. Since the solution has been in place, more than 500 reviews have been conducted. The response time is about 30 minutes, which is completely acceptable to surgeons. »

« CaloPix Pocket allows us to gain in efficiency and time: we no longer need to prepare case images on Power Point in advance and the exchange with clinicians is reinforced. »

**Eric Adnet**

**Technical Director (Information Systems Department of GH Paris Sud)**

« The solution was deployed easily with a merging of the databases and a good integration with the Diamic LIS. »

**Hélène François**

**Research physician at the UMRS 1197 (Paul Brousse)**

« The use of image quantification in CaloPix has accelerated and standardized our research on renal fibrosis. »

« The renal fibrosis software has been validated in basic research, recently published (Lecru et al. Kidney international) and a thesis topic on the evaluation of renal fibrosis in clinical practice. »

A photograph of two scientists, a man and a woman, both wearing white lab coats, looking at a computer monitor in a laboratory setting. The image is partially obscured by a blue semi-transparent overlay containing text.

Read the publication:

[Use of virtual slides for intraoperative frozen-section consultations: The experience of a two-sites academic department of Pathology](#)

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