



**TAM-Télésanté**

**Télémédecine is a reality**

**TAM-Télésanté : your partner  
in developing medical tele-assistance in Europe**



Created in 1995 by Jean-Luc Weber, physician, and Francis Klefstad-Simonville, engineer, TAM-Télésanté is a French limited liability company with a capital of FRF120,000 based in Aix-en-Provence, at Europôle Méditerranée de l'Arbois.

Its purpose is the design and operating of telematic links (teletransmission and processing of physiological signals) between patient and doctor. Overall, Tam-Télésanté is developing its activities and orienting its research and development efforts towards three markets: the Defense and Space sector, the Health sector and SMEs.

The technology of physiological and medical measurement sensors has in some cases attained a degree of maturity (operational reliability, simplicity and hardening through use) which makes it possible to entrust them to the patient or his/ her entourage (self-measurement).

TAM-Télésanté is present in Europe through its subsidiary TAM-Services whose mission is to supply users (health carers and patients) with an operational telesurveillance tool specially adapted to monitoring patients during new drug trial



## **Teletransmission of clinical data**

### **Application to the Blood Pressure self-measurement at home**

Teletransmission of medical data at regular intervals from the patient's home to the medical center should decrease treatment of the patient by comparison with sending him to a hospital.

Nowadays, blood pressure self-measurement is prescribed more and more frequently by doctors according to protocols which educate patients in various ways, depending on the measurement process

In order to improve the efficiency of blood pressure self-measurement, our company has developed a service for remotely downloading the data recorded by the patient at home. The data is transferred instantaneously to a central computer (server) via the telephone network and automatically put at the prescriber's disposal.

For the moment, more than 5000 recordings have been sent from patient's home to TAM-Télésanté and onto the investigators.



## Test monitoring

The skills developed by TAM-Télésanté are based on the implementation of multiple physiological measurement sensors in ambulatory situation (normal and also extreme living conditions), experience in the integration of complex electronic systems and operating of existing telematic means.

Knowledge of user needs (doctors, nurses or even emergency first-aid helpers) and of the context of use enables TAM-Télésanté to provide ergonomically and technically adapted services.

The telesurveillance sensors provided by TAM-Télésanté in 2000 monitor : hypertension - respiratory movements - central temperature - ECG (1 way) - urine analysis - pedometer (walking distance) - odometer.



**PRESSOLINK-T**



**We note that :**

Since the patients typically use the Pressolink-T every day they gain, they gain a great deal of self confidence in its use (less than 10% of recordings are not valid. If the patient knows that the data is going to be reviewed the day that it is sent they are more likely to adhere to the protocol.

**The use of Pressolink-T for blood pressure measurement at home is already helping to :**

- define reference procedures to evaluate new drugs which in turn lead to a better discrimination of the therapeutic efficiency in comparative studies ;
- increase the assiduity of the patients thanks to the diagnostic observance in real time;
- TAM-Télésanté improve the reliability of transtelephonic data transfer ;
- provide a technical assistance in real time for the patients and the investigators during a clinical trial ;
- provide ergonomic graphic software for the interpretation of the results of multicentre studies.



## Examples of H.B.P.M. applications (1998)

### **Clinical applications :**

Two french multicentric clinical trials are under way in order to evaluate the cost of this H.B.P.M. method and the related money-saving versus classical medical practice. (Hypertension treatment for pregnant women ; Treatment adaptation for mild hypertension).

### Evaluation of new drugs

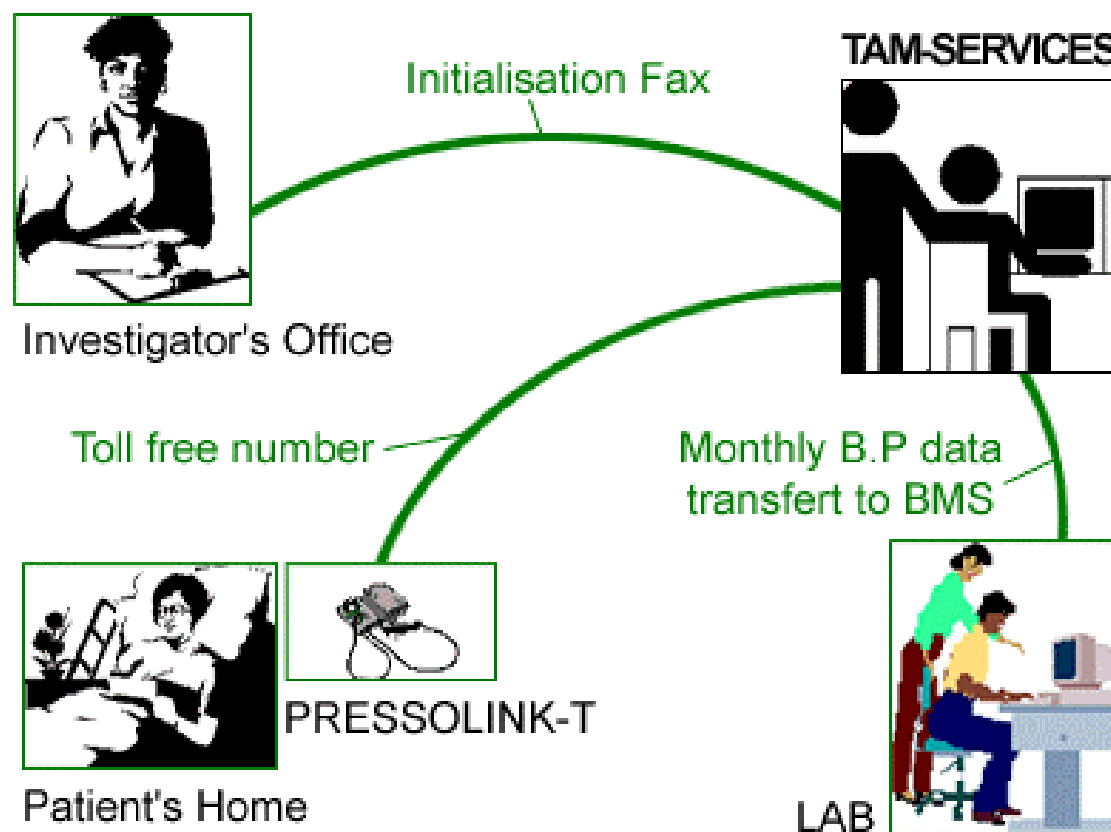
In several clinical trials, Pressolink-T is being used to observe, in real time, the effect of increasing doses on blood pressure.

Im various european countries, blood pressure data recorded using Pressolink-T and downloaded to TAM-Télésanté is being immediately sent to the study project managers, allowing them rapid access to the data.



## Home telemonitoring through the web

contact : [www.tamtelesante.com](http://www.tamtelesante.com)





## **EVALINK : Clinical and economic study on telesurveillance of hypertension during pregnancy**

### **Summary of the study**

Through two multicentric studies in France, the EVALINK programme assembles objective economic and clinical assessment data on the application of Telemedicine to medical Telesurveillance at home, aimed at avoiding in-patient care. The Evalink application concerns telesurveillance of high blood pressure patients in two situations :

- low hypertension (1,200,000 people concerned in France), AUTOLEGE Study,
- bouts of hypertension during pregnancy(100,000 women concerned each year, EVALINK-Pregnancies study).

The two studies are conducted respectively by 9 and 12 hospital services. AUTOLEGE covers 118 and Evalink-Pregnancies 57 patients.





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