

MEASUREMENT OF COLONIC TRANSIT TIME

The technology allows to avoid the usage of X ray radiography to quantify food transit time by using RFID tags.

Radiography ■ Gastroenterology ■ UHF RFID ■ Colonic transit

APPLICATIONS

- Gastroenterology : measurement of colonic transit time

DEVELOPMENT PHASE

The technology has been developed into a fully functioning prototype. A pilot clinical trial aiming at validating the technology functionality in patients will start in 4Q15. Clinical data are expected at the end of 2Q16.

INTELLECTUAL PROPERTY

Priority patent application filed in May 2015

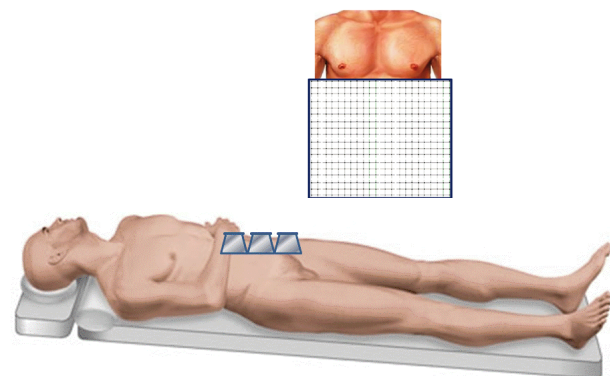
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PRESENTATION

To evaluate the origin of digestive disorders, such as constipation, diarrhea or irritable bowel syndrome, the quantification of the food transit through the digestive system is generally needed. In standard procedure measuring this colonic transit time is realized by ingesting radiopaque markers during several days and observing their distribution by X-ray. The use of a X-ray radiography is costly and time consuming for both hospitals and patients, in case of strong constipation or diarrheas protocols cannot be customized as X-ray exposition needs to be minimized, and abdominal radiographs are not adapted to pregnant women and children. The present offer proposes a technology solving these problems by replacing the radiopaque markers by RFID tags. These tags can be localized with a portable and inexpensive equipment and a simple computer directly in the examination room.



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COMPETITIVE ADVANTAGES

- No X-ray scanner is required
- Protocols can be customized to strong constipations and diarrheas as the technology allows more frequent measurements
- Protocols can be adapted to pregnant women and children
- Possibility to identify individual markers