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

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.

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

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