

MACHINES, SMART PILLS AND MICROCHIPS, OH MY!

*A glimpse at patient compliance
and diagnostic technology*

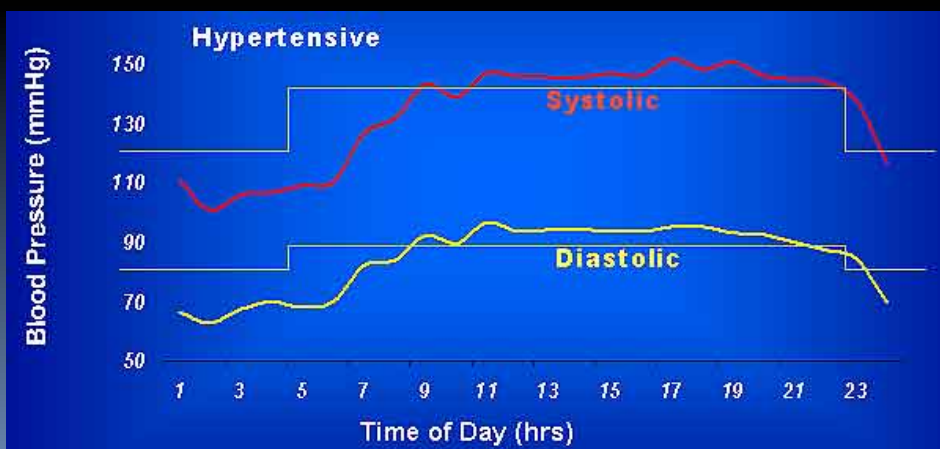
By Maia Mosse



EXTERNAL TO INJETABLE TO INGESTIBLE TECHNOLOGY

- Ambulatory Blood Pressure Monitor (ABPM)
- Medication Event Monitoring System (MEMS)
- Radio-Frequency ID (RFID) Microchip
- PillCam or MicroCam
- And finally...the Ingestible Event Maker (IEM) or “Chip-In-Pill”

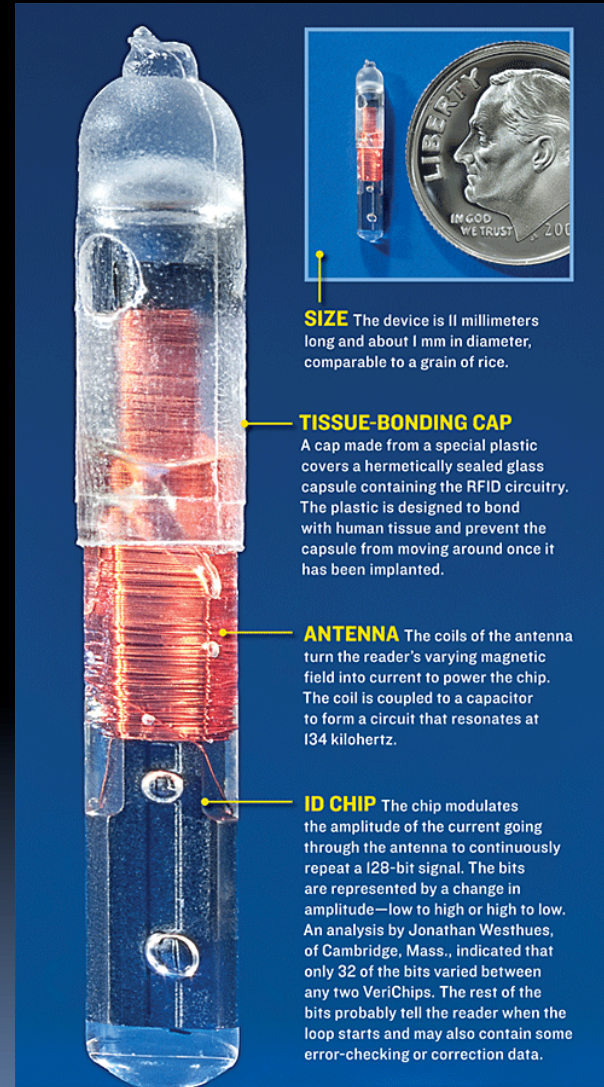
AMBULATORY BLOOD PRESSURE MONITOR (ABPM)



MEDICATION EVENT MONITORING SYSTEM (MEMS)



RFID (RADIO-FREQUENCY ID) MICROCHIP



RFID (RADIO-FREQUENCY ID) MICROCHIP

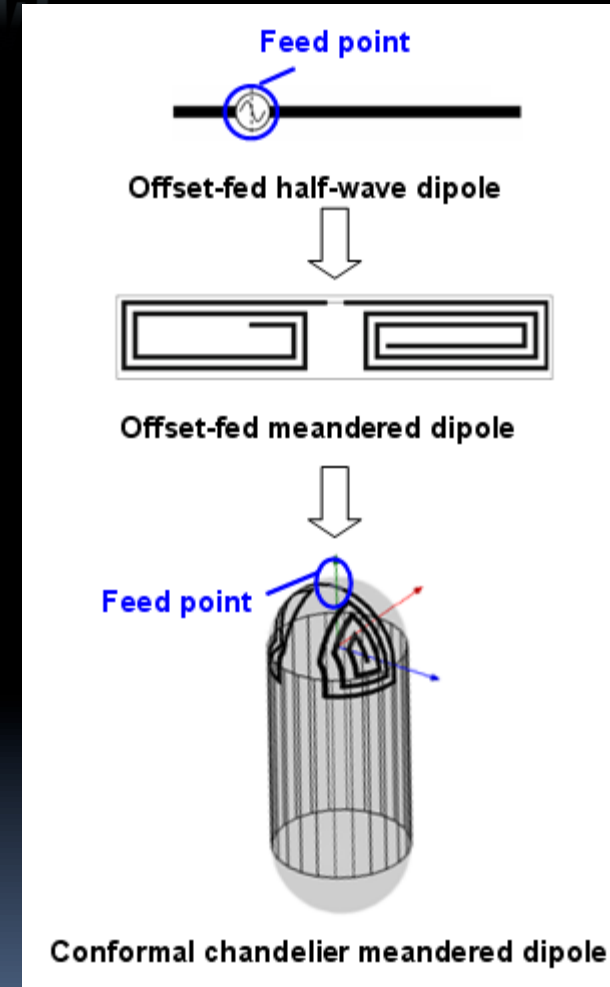
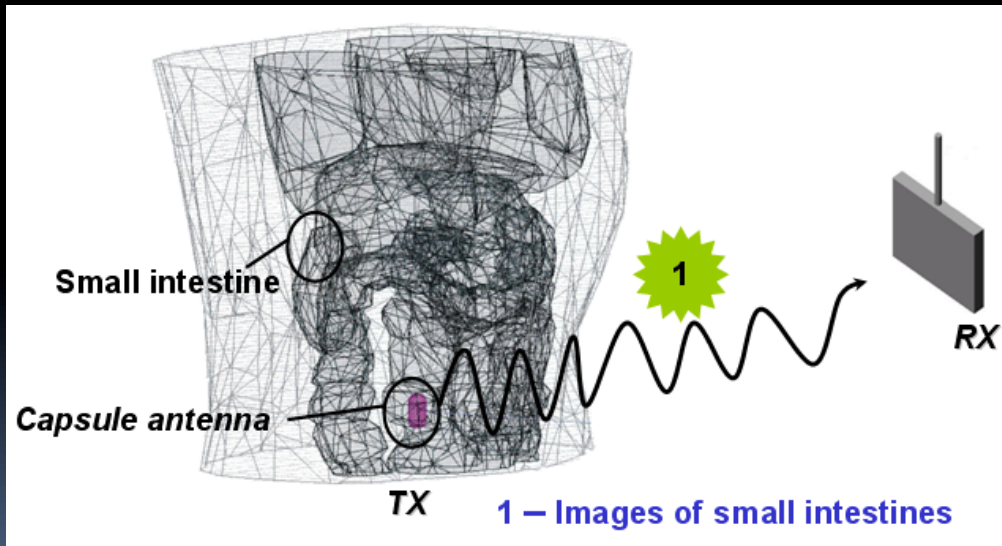
Protest in Florida against chipping
Alzheimer's patients (right)



PILLCAM OR MICROCAM



Design methodology:
Capsule antenna
conformed to inside of
cap (right)



Awesome capsule imaging system animation – what it looks like going through GI tract!

<http://www.givenimaging.com/en-us/HealthCareProfessionals/Pages/pageHCP.aspx>

INGESTIBLE EVENT MAKER (IEM) – “CHIP-IN-PILL”



HOW IEM WORKS

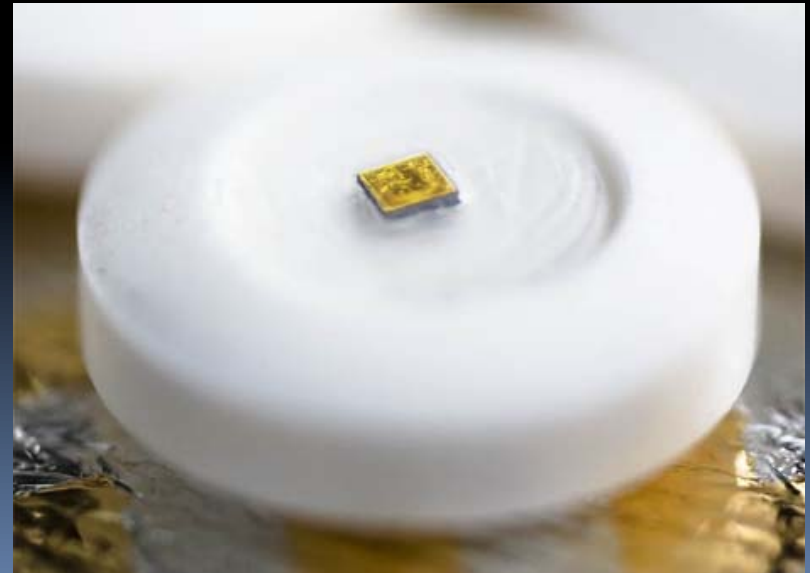


感應器記錄患者身體狀況



感應器就會發簡訊到病患的手機

INGESTIBLE EVENT MAKER (IEM)



PUBLIC RECEPTION OF IEM

Look out, your medicine is watching you

By Ben Hirschler


NEW YORK | Mon Nov 8, 2010 5:29pm EST


(Reuters) - Novartis AG plans to seek regulatory approval within 18 months for a pioneering tablet containing an embedded microchip, bringing the concept of "smart-pill" technology a step closer.

The initial program will use one of the Swiss firm's established drugs taken by transplant patients to avoid organ rejection. But Trevor Mundel, global head of development, believes the concept can be applied to many other pills.

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[woddensoapbox](#)
2 weeks ago

its a good thing i cant understand a word she is saying, i would be even more sicker to my stomach to hear the words of their plans than just just watch the visual.

[IPrayHeComesQuickly](#)
2 weeks ago

Well straightgatekeepers....nice work even though it's sickening! lol uughh

[pureinheart777](#)
1 day ago

jesus was very clear not to take the mark in the forehead or hand so this is a method to start the ball rolling so people think that wasnt so bad after all ...then that leads them to the mark of the beast in either the implanted in the head or the hand.

things are heating up now.

the brainwashing has started.

i took my cat to the vet not be fixed up.

and the vet said they are passing a new law in queensland to insert every animal and i said not mine no way.

then i told him about the chip

Comments on a Foreign-Language Youtube Video Explaining the IEM (below)

INGESTIBLE EVENT MAKER

(IEM)

■ PROS

- Improve patient compliance
- Personalization of healthcare
- Versatile
- No added side-effects
- Reduce Patient visits

■ CONS

- Expensive
- Possible privacy violations
- Delay advent of more long-term solutions

BIBLIOGRAPHY

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- MEMS

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