

instent[®]

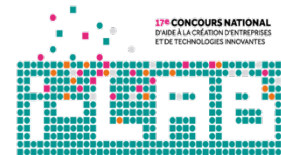
Seeing what matters.



sous l'égide de la Fondation de France



Hello
Tomorrow



How long should the DAPT treatment last?

More than 12 months?



Stent thrombosis has only a 50% survival rate!

High risk patient population > 25%



Less than 6 months?

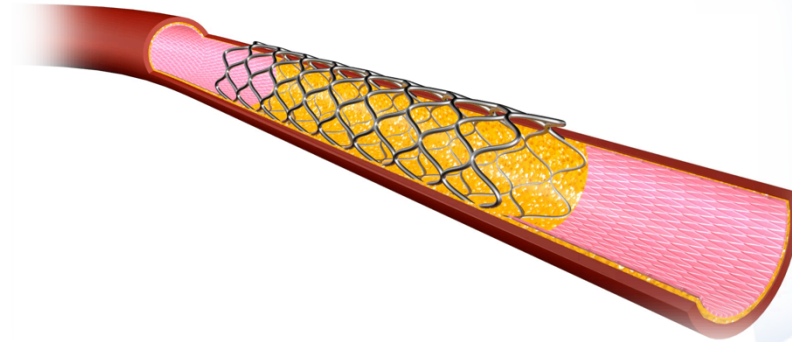


Major bleeding has an increased mortality risk!

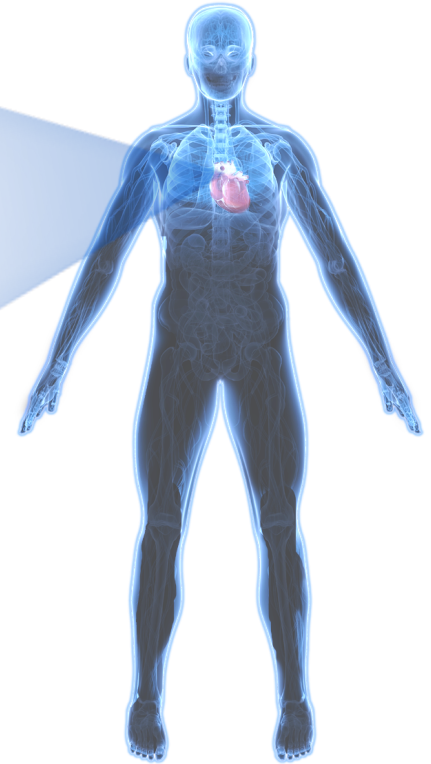
High risk patient population > 15%

Mauri – “Twelve or 30 Months of Dual Antiplatelet Therapy after Drug-Eluting Stents”, N Engl J Med 2014

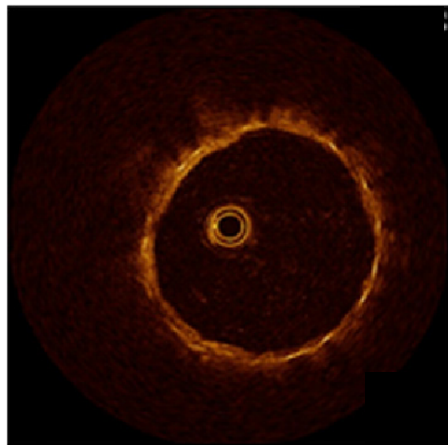
DAPT duration depends on patient and stent-related factors ...



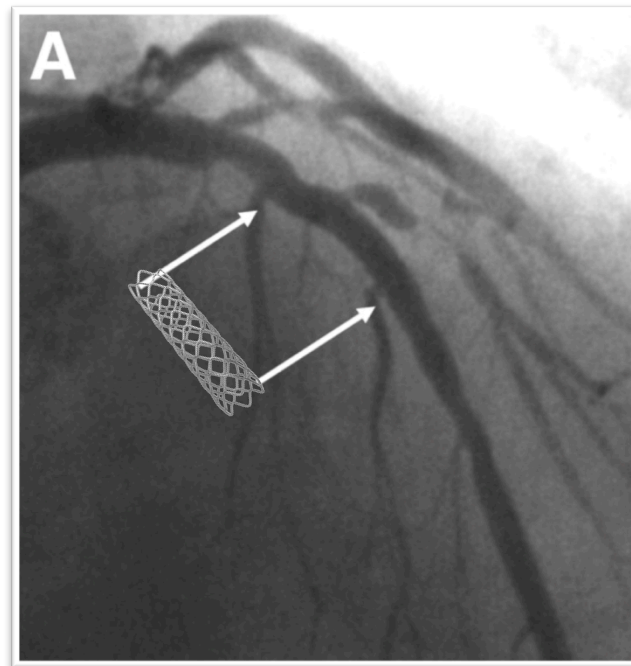
DAPT: dual anti-platelet treatment



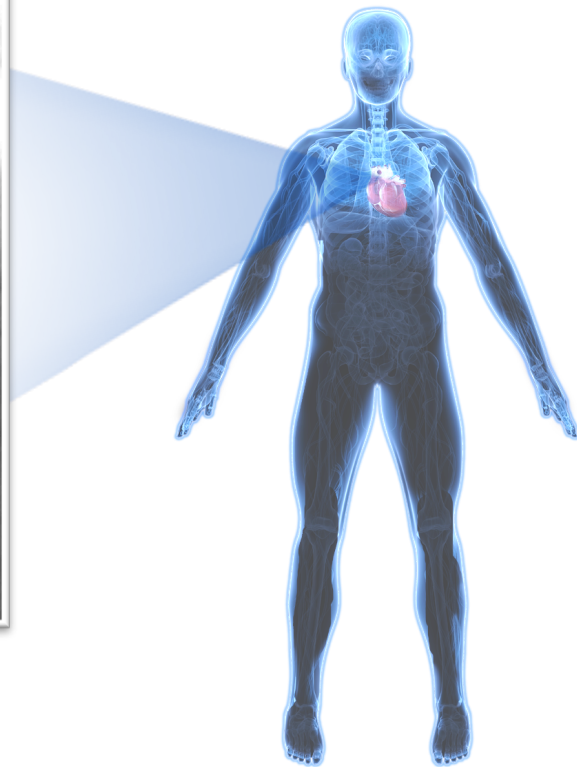
... but only patient-related factors can readily be assessed today



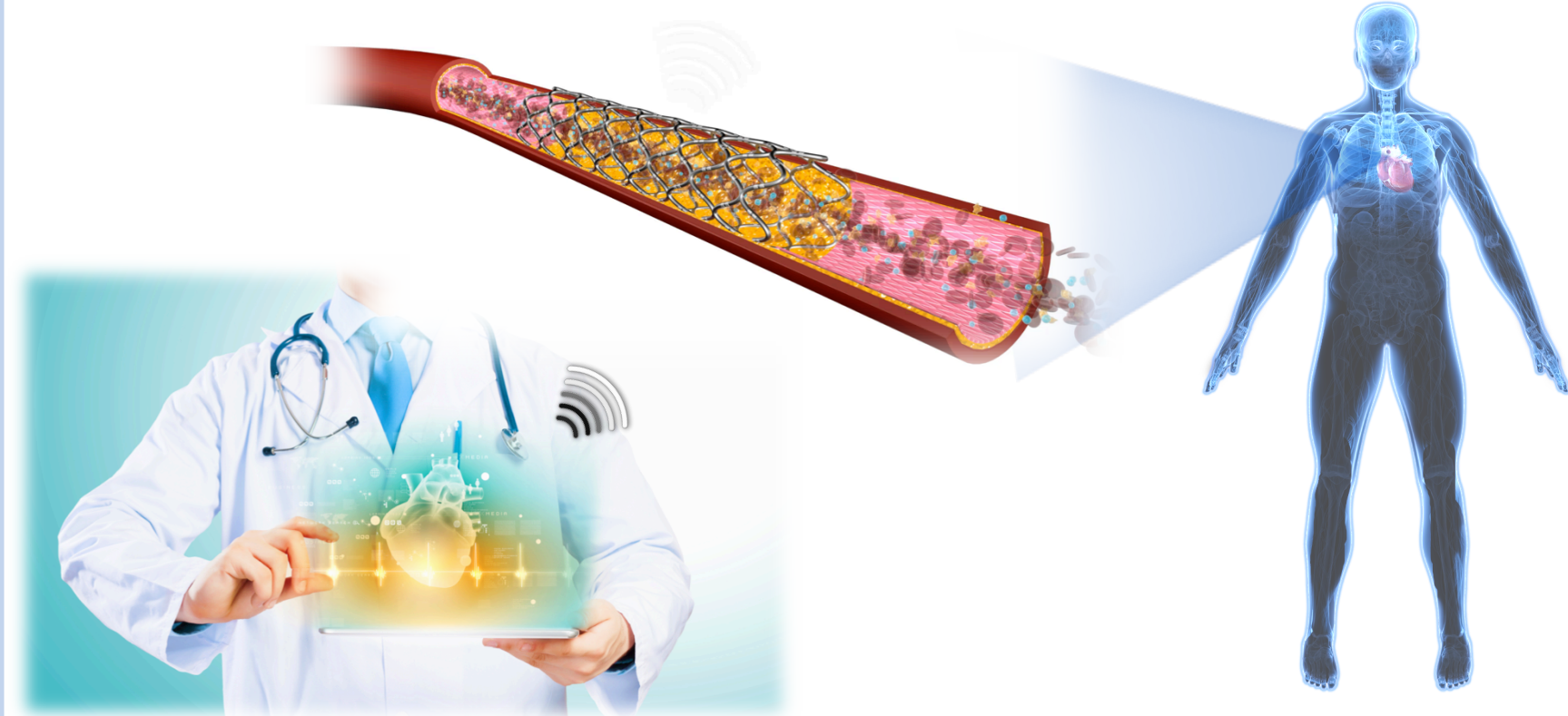
Endothelial coverage?



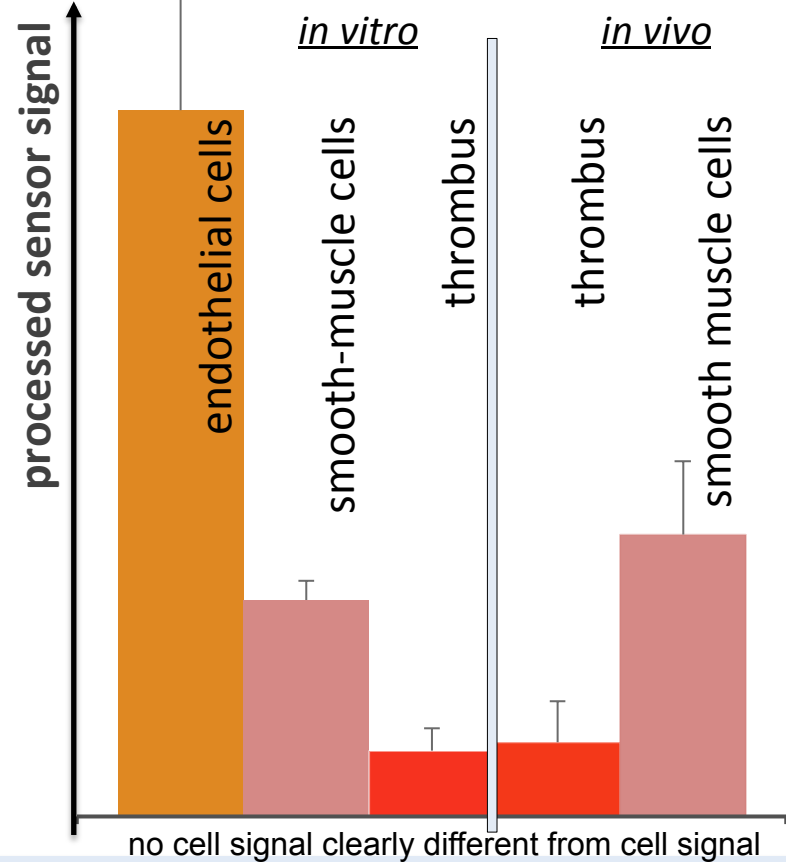
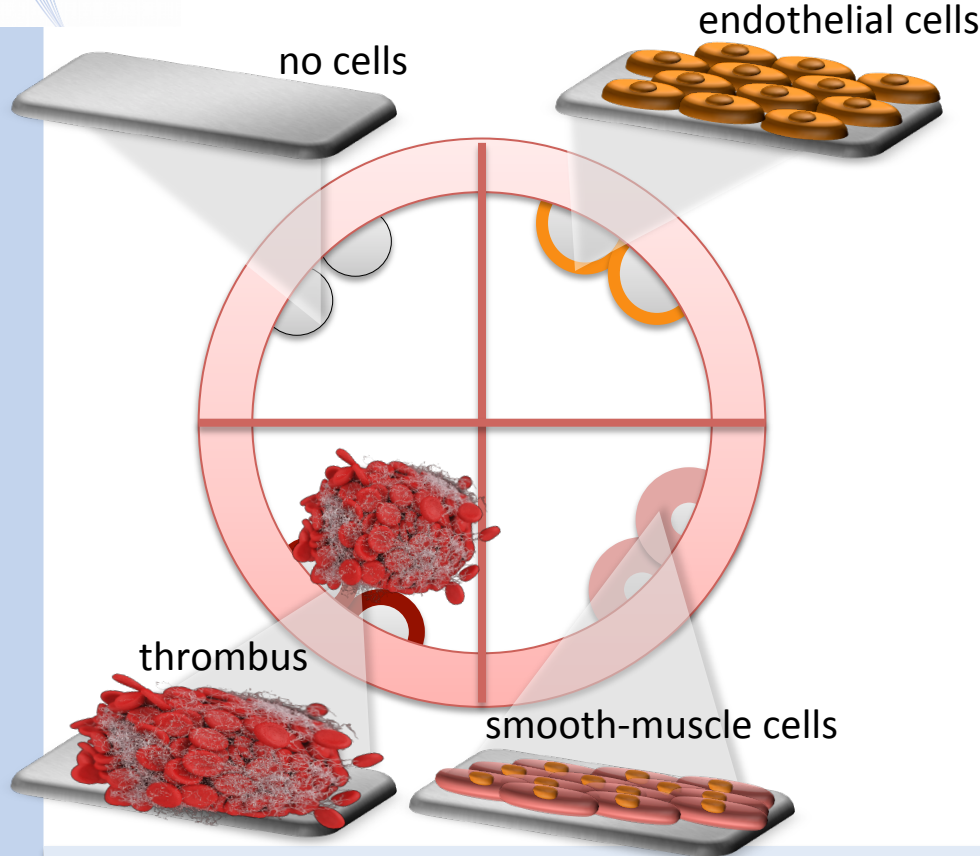
Healing complete?



A smart stent provides physicians with remote and non-invasive information on the healing progress



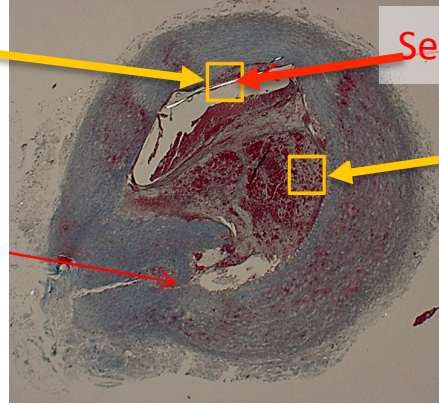
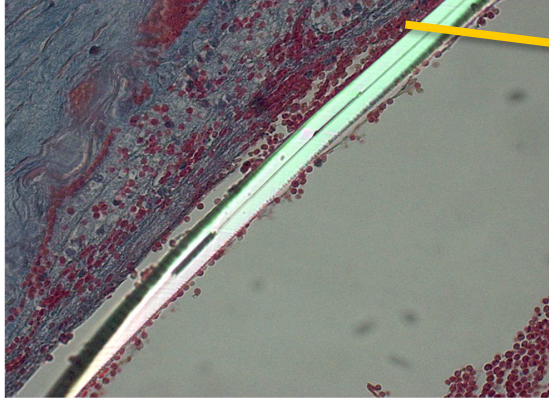
Instent's sensor allows characterization of its in situ environment



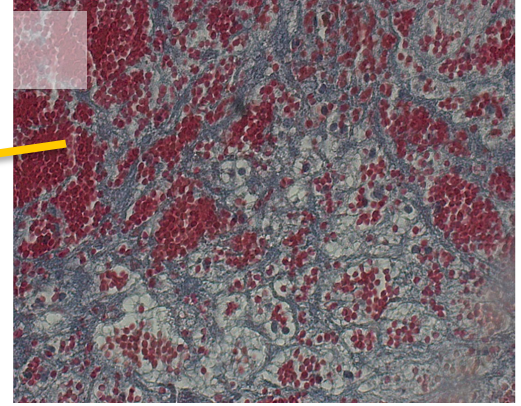
2 successful animal experiments confirm in vitro results

1-day intervention

Thrombus

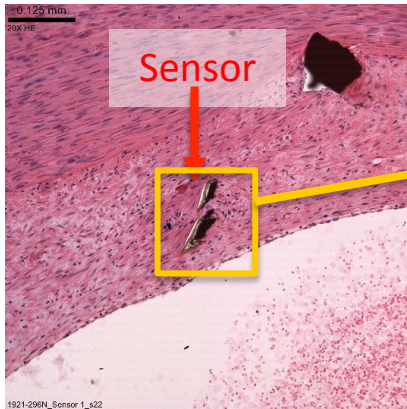


Sensor

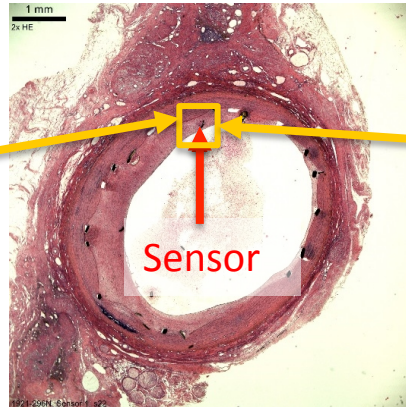


30-day implantation

Smooth muscle cells



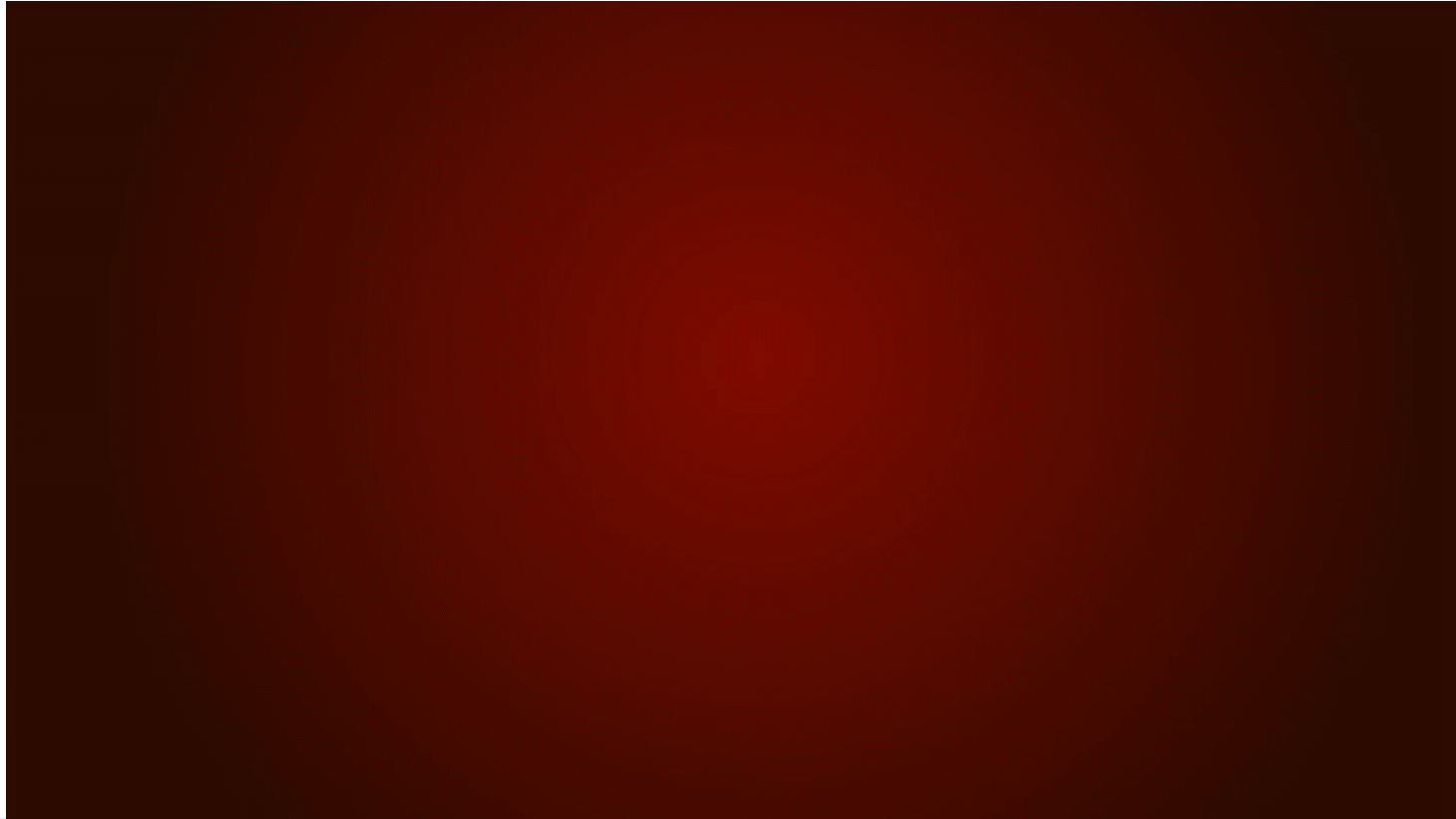
Sensor



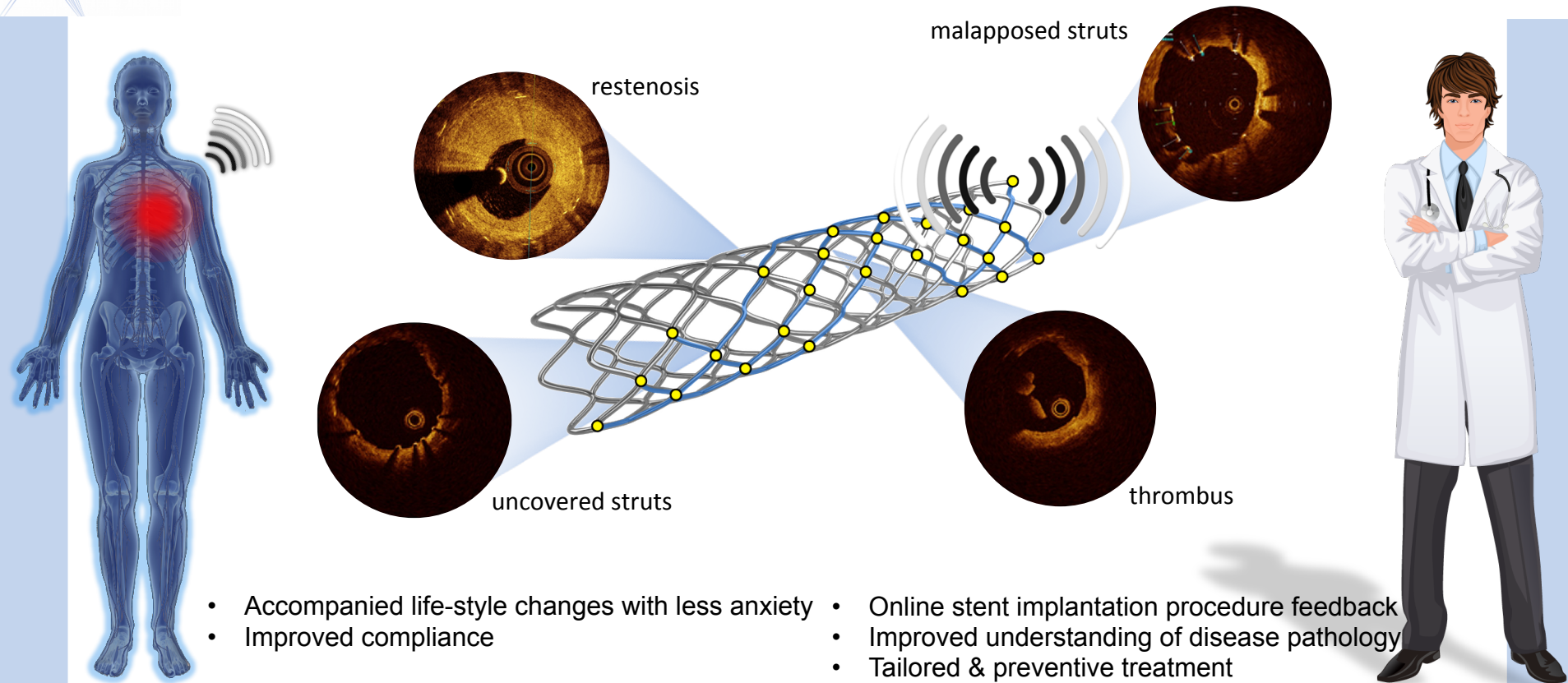
Sensor



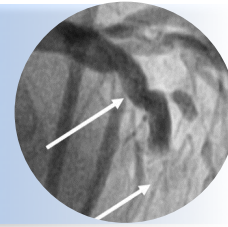
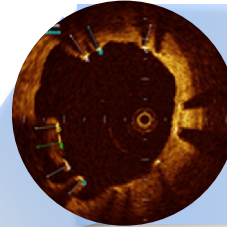
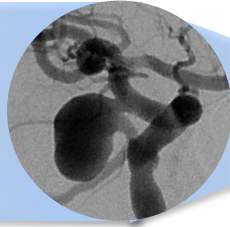
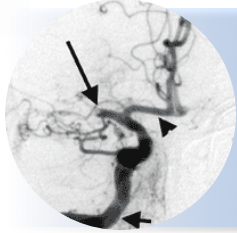
Seamless integration of hundreds of sensors with any coronary stent



Smart stent data benefits patients and physicians and leads to a safer and more cost-efficient treatment

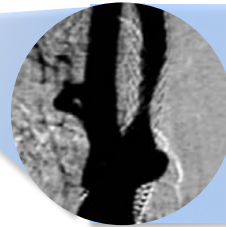


(non-) invasive imaging has limitations during percutaneous intervention and follow-up



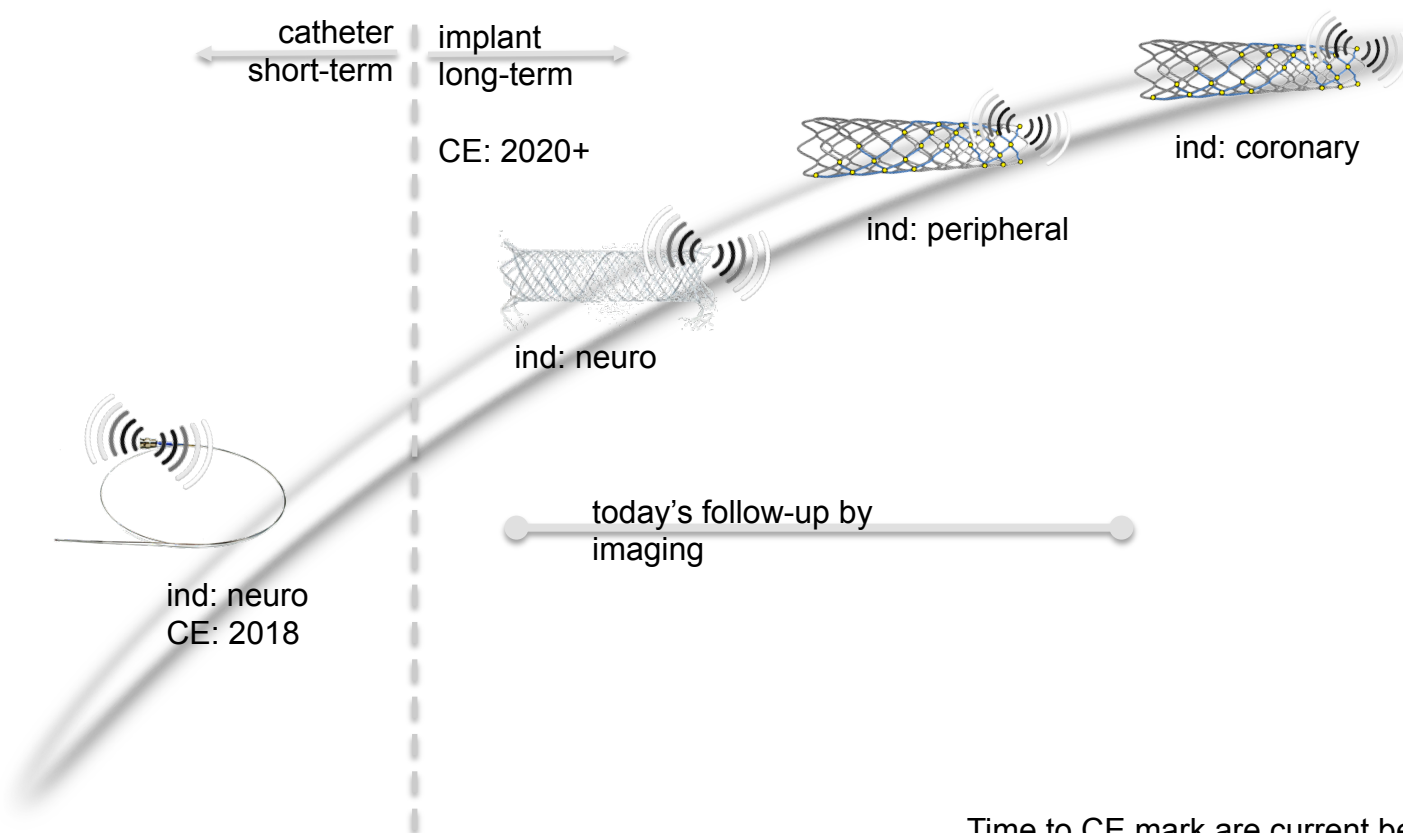
- Duration of DAPT after treatment of cerebral aneurysm by flow diverter is unknown! Periodic follow-up requires invasive imaging!
- Most efficient thrombectomy method for ischemic stroke is unclear!

- Optimal duration of DAPT is unclear!
- 10% of patients with device failure at 4 years!



- Restenosis rates surpassing 30%!
- Periodic follow-up requires imaging!

A progressive adoption and development strategy of increasing technological and market access complexity



Time to CE mark are current best estimates.



A breakthrough technology (patent pending) aligned with current and future trends in healthcare (connected health, big data, reduced healthcare costs).

A well-networked team with world-class scientific, medical and business advisors.

Prototyping phase under way in best-in-class environment at Ecole polytechnique.

We are looking forward to collaborate with you in the future!

Merci! Allez les Bleus!

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