NINESIGMA PRESENTS

NOTABLE START-UPS IN THE AREA OF PERCUTANEOUS CORONARY INTERVENTION INTRAVASCULAR DIAGNOSTIC AND TREATMENT

CAN YOU GUESS #1 AND # 3?

Ranking	Organization	Technology Description	Expert Comments Gathered from OI COUNCIL
1			- I prefer MRI compared with CT considering less/no dose for doctors or patients in MRI scenario and MRI would be more popular in C4medical imaging application. In MRI application, if we are talking about the navigation function, then we need to consider the non-metalic material in operation which could be a big challenge. - This company: interventional MRI is huge opportunity because of time, cost and treatment. In conventional patient pathway the patient has an MRI, then a possible treatment, where as an interventional MRI can be more efficient saving time and money, better for the patient and the hospital financially. This is likely to be less invasive as well, thus reducing infection complications and patient hospital stays. From the website, it looks that this company is ready and prepared to compared to the other companies.
2	Oxford Endovascular	- Start-up creating a metallic stent (applicable to cerebral aneurysms) that has been spun out of Oxford University - Development of a metal mesh tube device for neurovascular disease: a stent made of a laser-cut metal alloy that can be inserted into the patient's brain using a catheter	Oxford Endovascular has a very dedicated market about intracranial aneurysms and OE's techonology is convincing. It provides minimally invasive treatment compared with conventional therapy via platinum coils, which is Oxore time-saving and cost-saving and less injury to patients.
3			- I am a big fan of Blood Flow Velocity Sensor promoted by this company since it provide a brand new idea for cardiovascular diseases. The early detection or preventation would be feasible relying on the sensing technology, instead of late therapy operation. So, except current product, the business future would be nice if this company could incubate a new product idea on early detection.
4	Qvanteq	- New surface treatment technology to reduce the inflammatory response by providing biocompatibility such as antithrombogenicity to cope with and overcome the adverse clinical effects of coronary stents and vascular stents - Construct a durable super hydrophilic surface by physicochemical treatment	- Qvanteq is perhaps the most impressive with their antithrombotic stents. Thrombosis is the #1 post PCI stenting complication due to hemo dynamics and the adoption to the artery walls. Stent brands of Medtronic, BSX and Abbott have made some but little progress in the past 20 years, but even a .1% change for the better is enough for a doctor to switch brands. Biotronik is making a big impact with their Papyrus stent, so I believe that Qvanteq will have a major impact or be bought by one of the global competitors.
5	Arterius	- A polymer based bioresorbable scaffold (ArterioSorbTM). - Excellent transportability to diseased area, variety of sizes, mechanical properties (for example, radiation resistance) equivalent to superior drug-eluting stent (DES), less side effects than DES, 24 months residual Lossless, can avoid the stenosis of the blood vessel after the loss of the stent - Pre-clinical studies have been complete	- I think the bioresorbable scaffold is promising in the future because there are potential risk in short-term DAPT therapy compared with around 3-year duration of BVS degradation. Compared with previous bare metal stents or drug eluting stent, BVS has couple of advantages but it also requires the corresponding inflammation preventation which could be address by drug therapy or material selection for scaffold.
6	Intratech Medi	- A patented intravascular spiral balloon over the wire catheter designed to navigate tortuous cranial blood vessels - Can be used to restore blood flow in patients with acute ischemic stroke	- Thrombotherapy for cerebrovascular vessels is more difficult than ordinary cardiovascular treatment in view of its complexity. This is an interesting technique in the light of a catheter that enables its treatment. Especially focused on the manufacturing ability of the microcatheter.

- This start-up evaluation and ranking was made by OI Council (www.oicouncil.org)
- Are you interested in knowing more or considering such a search and ranking of start-ups in your domain of interest ? Please contact us and we'll be happy to further discuss.