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How does hybrid operating suite change our approach to standard neurointerventional procedures?

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In the previous era, neurosurgical and neurointerventional procedures for neurovascular diseases were performed in operation room and angiographic suites respectively. With this approach, patients can receive standard neurosurgical and neurointerventional treatments as usual, but it is difficult for operators to offer another procedure in the same session when the original treatment of choice appears insufficient or inadequate. With the advent of hybrid operating theater, i.e. a standard operating theater equipped with a high-quality angiographic suite, our approach to the treatment planning of craniofacial or cerebral vascular diseases becomes much different. Because we gather both surgical and neurointerventional experts together to the same operating room for treatment planning, patients are now allowed to receive neurosurgical and/or neurointerventional procedures in the same anesthetic session without patient transfer. From the interventional neuroradiologists' points of view, we can not only perform emergency neurosurgical procedures before definite neurointerventional treatments in the setting of neurosurgical emergencies, but also shift to neurosurgical operations once neurointerventional procedures fail to treat the lesion (and vice versa). From our more than 50 cases of experiences since April 2015, we are convinced that advantage significantly reduce the whole-procedure time, reduce patient transfer time and enhance patient safety and treatment efficiency. We believe that neurosurgical and neurointerventional procedures can become much more mutually beneficial in the setting of hybrid operation theatre, especially in the setting of neurosurgical emergency.

Biography

I-Chang Su has completed his Neurosurgical training in 2009 and Interventional Neuroradiological training in 2012 from National Taiwan University Hospital. He also worked as a research fellow from 2012 to 2013 in Interventional Neuroradiology from Toronto Western Hospital. With his dual training backgrounds, he worked as a hybrid vascular neurosurgeon, and was devoted to perform novel hybrid neurovascular procedures in a newly-established hybrid operating room since 2015. Up to now, he has published more than 15 peer-reviewed articles in neurosurgical or neuro-endovascular fields, and has been serving as the leader of interventional neuroradiology in Taipei Cathay General Hospital.

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