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BRAINS launches Hybrid Operating Room

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A first of its kind in India

Brains Neuro Spine Hospital has launched the first if its kind operating suites at BR Life SSNMC Hospital. Sri Sri Sri Jayendra Puri Maha Swamiji, Padasevaka Peetadhipathi of Sri Kailasha Ashrama Mahasamsthana launched and blessed the complex. The new operation theatre complex has got exclusive operating rooms with the most modern gadgets to make the brain and spine surgery safe and effective. This complex consists of independent operating suites.

Hybrid Operating Room: This hybrid operating room is the first of its kind in India. The operating theatre can be used for dual purpose: micro-surgery as well as simultaneously for cerebrovascular intervention. This two-in one operating room has the most sophisticated operating facility along with miniaturized cerebral angiography suite. In the operating room itself angiography for the brain can be performed, for diagnosis, for tumor embolization, retrieval of clot, to control bleeding, to study the blood flow, to deploy a stent and also to help the surgeons in preserving the normal blood vessel and also to control the bleeding during surgery.

Here two operating teams can work together – one team can perform micro-surgery and simultaneously other team can help assist, compliment and treat through endovascular techniques. The Zeihm technology from Germany installed in the theatre has this dual application machine which almost works like a cath-lab in the operating room.

The main advantages are – space utilization, ability for both the teams to work and compliment each other especially in complex surgeries like highly vascular tumors, brain haemorrhage, aneurism and arteriovenous malformations. Yet another advantage is that the patient need not be moved from operating room. In addition, this technology provides a 3 -dimensional imaging of the brain and spine making the neurosurgery very precise and effective.

Along with this, Neuro-endoscopic suite, an operating theatre offering minimal invasive neuro-surgery through endoscopic system was also launched. Starting from cranial endoscopy, skull-based endoscopy to spinal neuro-endoscopy will be performed. The major advantages of minimal invasive surgeries include less pain, less tissue injury, quick recovery and shorter hospital stay.

Two other operating suites with total range of micro neuro surgery, having the most advanced operating microscopes, neuro navigation system, computer assisted and guided intra-operative neuro monitoring, micro-doppler system, ultrasonic surgical aspirators and high-speed drills are available. Stereotactic and functional operation suites equipped with stereotactic frame and special instrumentation for diagnosis of deep-seated lesions as well as treatments such as DBS for Parkinsons disease, epilepsy, pain, lesioning, implantation of devices and pumps and treatment of chronic pain. With the spinal stimulation – vagal nerve stimulation and sacral nerve stimulation can be performed.

Speaking about the initiative **Dr. NK Venkataramana, Founder Chairman & Chief Neuro Surgeon, Brains Neuro Spine Hospital, Bangalore** said “All these have been done in order to bring the contemporary technology for neuro surgery all under one roof for the benefit of ailing neuro patients.”