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## Virtopsy: A Non-Invasive aid in Medico-Legal investigation

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### Abstract

Autopsy became the gold standard for determining the cause & manner of death as it was introduced first. Researchers of Switzerland introduced virtopsy in 2000; soon this minimally invasive technology in the field of forensic medicine has gained popularity over conventional autopsy. It incorporates the technique of radiologists and forensic clinicians, reflects an ethical face in forensic examination. Its scope includes research on gun shots, sharp & blunt force, trauma, heat & strangulation, postmortem interval estimation, injury related to skull & brain, 3D-surface pattern matching. Techniques such as post-mortem computed tomography (PMCT) and post-mortem computed tomography angiography (PMCTA), post-mortem magnetic resonance imaging (PMMR) help in easier and prompt evaluation of thanatological parameters without harming the structural integrity of the remains and the moral integrity of the families of the deceased. This synopsis highlights the importance about virtopsy in forensic investigation, its techniques & mechanisms.

**Keywords:** Autopsy, PMCTA, PMCT, PMMR, Radiology, virtopsy.

### Biography

Dr. Sugandha Nagpal has completed her post graduation in 2019 in MSc forensic odontology from National forensic sciences university, Gujarat (India) and completed graduation in 2017 in Dentistry from JCD dental college, haryana (India) . Did internships in forensic science lab Gandhinagar, Gujarat India and in Gujarat Institute of Disaster Management. She is currently an active team member with Kenyon International and AFOHR Association Forensic Odontology For Human Rights group.