**Abstract**

A Transcatheter Aortic Valve Replacement (TAVR) is a minimally invasive surgical procedure used to replace a narrowed aortic valve that fails to open properly (aortic stenosis). Aortic valve stenosis is the most commonly acquired valvular heart disease. Instead of traditional open-heart surgery, a TAVR involves threading a catheter through blood vessels to deliver and implant a new valve. Computed Tomography Angiography (CTA) is a medical imaging technique that uses X-rays and computer processing to create detailed cross-sectional images of blood vessels, organs, and other soft tissues in the body. It is commonly used to visualize the coronary arteries, aorta, and other vascular structures. A CTA TAVR is the choice imaging method for pre-TAVR patients as it is done to evaluate and plan for the procedure to be done. This is due to the number of TAVR procedures surpassing the number of traditional surgical aortic valve replacements. A CTA TAVR study evaluates the aortic valve, aorta and iliofemoral arteries to ensure the selection of appropriate candidates, prosthesis types, and treatment approach.

*Keywords:* transcatheter aortic valve replacement (TAVR), computed tomography angiography (CTA), aortic stenosis, catheter