

# **Thoracic Endovascular Aortic Repair (TEVAR) Is it a replacement for Open Surgery for Aortic Arch & Descending Aorta?**

**Essay**

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*First and foremost thanks to "Allah" who granted me the ability to accomplish this work, then to all the patients who cooperated with me.*

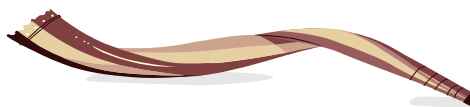
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## List of Abbreviations

<b>Abb.</b>	<b>Full term</b>
<b>ACP</b>	Ante-grade cerebral perfusion
<b>AP</b>	Antero-posterior
<b>ARSCA</b>	Aberrant right subclavian artery
<b>BB</b>	Bird Beak
<b>BIS</b>	Bispectral index
<b>CMR</b>	Cardiac magnetic resonance
<b>COPD</b>	Chronic obstructive pulmonary disease
<b>CPB</b>	Cardiopulmonary bypass
<b>CSFD</b>	Cerebrospinal fluid drainage
<b>CT</b>	Computed tomography
<b>CTA</b>	Computed tomography angiography
<b>DHCA</b>	Deep hypothermic circulatory arrest
<b>DSA</b>	Digital subtraction angiography
<b>DSINE</b>	Delayed stent-graft induced new entry tear
<b>EACTS</b>	European association of cardiothoracic surgery
<b>ECG</b>	Electrocardiogram
<b>EEG</b>	Electroencephalogram
<b>EL</b>	Endoleak
<b>ESC</b>	European society of cardiology
<b>FET</b>	Frozen elephant trunk
<b>HAR</b>	Hybrid aortic repair
<b>HCA</b>	Hypothermic circulatory arrest

<b>Abb.</b>	<b>Full term</b>
<b>ICU</b>	Intensive care unit
<b>LAO</b>	Left anterior oblique
<b>LCC</b>	left common carotid artery
<b>MHCA</b>	Moderate hypothermic circulatory arrest
<b>MRI</b>	Magnetic resonance imaging
<b>OR</b>	Operating room
<b>PND</b>	Permanent neurological deficit
<b>PTFE</b>	Polytetrafluoroethylene
<b>RADPAD</b>	Commercial radiation resistance drapes
<b>RCC</b>	Right common carotid artery
<b>RCP</b>	Retro-grade cerebral perfusion
<b>RSCA</b>	Right subclavian artery
<b>SACP</b>	Selective antegrade cerebral perfusion
<b>SINE</b>	Stent-graft induced new entry tear
<b>TAA</b>	Thoracoabdominal aortic aneurysm
<b>TAVI</b>	Transfemoral aortic valve implantation
<b>TEE</b>	Trans esophageal echocardiography
<b>TEVAR</b>	Thoracic endovascular aortic repair
<b>TND</b>	Temporary neurological deficit
<b>TTE</b>	Transthoracic Echocardiography

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# Introduction

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# Aim of the Work

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# Chapter (1)

## **Anatomical Perspectives**

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## Chapter (2)

# **Epidemiology and Pathology**

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## Chapter (3)

# **Radiological Evaluation**

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