The Shoulder Replacement

A total shoulder arthroplasty (TSA) is a surgery to replace the damaged parts of the "ball and socket" shoulder joint with an artificial prosthesis. The damage to the shoulder can be the result of a number of causes including degenerative joint diseases like arthritis or a traumatic fall:

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Causes	ARTHRITIS		
	• Osteoarthritis: this is an age-related form of arthritis,		
	typically occurring in those over 50 years of age. The		
	cartilage between the bones of the shoulder wears		
	away, causing the bones to rub against one another		
	resulting in shoulder pain and stiffness.		
	Rheumatoid Arthritis: Inflammatory arthritis where		
	the membrane surrounding the shoulder joint is		
	chronically inflamed, causing damage to the cartilage.		
	Post-traumatic Arthritis: Can occur		
	after a serious injury to the shoulder		
	joint. A traumatic event may cause a tear		
	or damage to the cartilage that worsens		
	over time to result in limited shoulder		
	function and joint pain.		
	ANATOMIC TOTAL CHOILI DED DEDIACEMENT		

ANATOMIC TOTAL SHOULDER REPLACEMENT:

Also known as an Anatomic **Total Shoulder Arthroplasty (TSA)**, this shoulder replacement mirrors the anatomy of the shoulder joint, replacing the top of the humerus bone with a metal ball and stem and the glenoid surface with a plastic socket. Patients with osteoarthritis and those with intact rotator cuff tendons are typically recommended an anatomic TSA.



TSA Components

The orientation of the humeral head can be adjusted by the surgeon with a plate positioned underneath the metal ball implant.



The augment, or angle and shape, of the plastic socket can also vary to correct for different types of wear on the glenoid surface.



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Reverse Total Shoulder Arthroplasty

ROTATOR CUFF ARTHROPATHY: May occur following a chronic rotator cuff tear. The changes to the joint from the rotator cuff tear can build up and result in arthritis and destruction of the joint cartilage.





REVERSE TOTAL SHOULDER ARTHROPLASTY A reverse prosthesis is a newer technology that utilizes a "non-anatomic" shoulder replacement in patients who have shoulder arthritis and are without normal rotator cuff muscles and tendons. This means the "ball and socket" are reversed. This prosthesis can also be used as a salvage procedure for failed surgery or in older patients with severe fractures of the proximal humerus (shoulder) that may be beyond surgical repair (due to loss of bone or a large number of fracture pieces).





FRACTURES	A fracture of the humerus bone may be so severe that it cannot be pieced back together. Additionally, the blood supply to the bone pieces may be compromised. A shoulder replacement surgery may be the only option for fractures of this severity.	
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