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ANATOMIC TOTAL SHOULDER ARTHROPLASTY GUIDELINE

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These are <u>guidelines</u> only. Each patient is an individual and may have individual variations on the information below. Post operative instructions are documented on the operation note which should be provided with the referral or if not, obtained from the consultant's team. These guidelines are for use by a qualified physiotherapist in collaboration with the orthopaedic surgeon undertaking the patient's surgery. The authors take no responsibility for the use of this guideline by staff or individuals other than the above at UCLH NHS Foundation Trust.

Post Op	Post op precautions/support advice/ exercise suggestions
	• Sling: type of sling at the discretion of the surgeon.
	 Worn for 3 -6 weeks at all times except washing/dressing/ axillary hygiene and
	exercises. Instructions should be followed how to complete these safely.
	OT assessment
	• Safe range of motion: recommended in post-operative note by surgeon. If not specified
	Agreed Safe Zone: Forward Flexion to <90 degrees, External rotation to <0 with arm by side
	Restrictions:
	 No combined Abduction / External rotation
	 No shoulder extension - recommended to sleep with pillow behind arm to prevent
Immediately	dropping into extension overnight
Post-op –	 No Hand behind back
Week2/3	 No weight bearing through the upper limb
	 No heavy lifting – limit to cup/mobile phone
	 No resisted internal rotation (protection of subscapularis repair)
	 No active shoulder elevation
	\circ No External rotation beyond 0 degrees (protection of subscapularis repair)
	 Exercise suggestions/ considerations:
	 Exercises should be within comfort limits and should not exacerbate pain.
	 Exercises/ movement should be well controlled - do not force or stretch
	 Cervical spine/ elbow/wrist/ hand exercises as appropriate
	 Scapula mobility
	 Sling: as above in immediately post-op – 3 weeks
	 Safe range of motion: recommended in post-operative note by surgeon. If not specified
	Agreed Safe Zone : Forward Flexion to <90 degrees, External rotation to <0 with arm by side
	Restrictions:
	 No combined Abduction / External rotation
Week 2/3 –	\circ No shoulder extension - recommended to sleep with pillow behind arm to prevent
Week 6	dropping into extension overnight
	 No External rotation beyond 0 degrees (protection of subscapularis repair)
	 No Hand behind back
	 No weight bearing through the upper limb
	 No heavy lifting – limit to cup/mobile phone
	 No resisted internal rotation exercises (protection of subscapularis repair)
	Exercise suggestions/considerations:

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	• Exercises and movement should be within comfort limits and well controlled - do not
	force or stretch
	 Prevent any compensatory movement patterns as able Active-assisted / supported movement within limits of safe zone e.g. Assisted
	 Active-assisted / supported movement within limits of safe zone e.g. Assisted shoulder flexion below shoulder level: step back/table slides (flexion) / ball rolling/
	well-supported active-assisted short lever shoulder flexion in supine
	 Assisted and well supported external rotation with arm by side in sitting to 0 degrees
	or limits set by surgeon
	 From week 3 post operatively: Gentle sub-maximal static isometrics for deltoid and
	posterior rotator cuff (at 0 degrees) may commence within pain free limits when
	supported e.g. if in supine with folded towel behind arm to prevent extension or in
	supported sitting: short lever flexion/ external rotation (at 0 degrees)
	• Progression Criteria: Patient should be comfortable with good control of movement before
	progressing to next phase
	• Sling: Weaning of support/sling as appropriate and comfort allows - should have no signs of
	instability, good deltoid function and pain well controlled; may want to continue with poly
	sling outdoors/ travelling
	Restrictions:
	 No Combined Abduction/ External Rotation
	 No hand behind back
	 No weight bearing through upper limb
	 No heavy loading/ lifting
	 Movement within comfort limits: not to force, stretch or push into pain
	Exercise suggestions/ considerations:
Week 6 –	 External rotation exercises beyond 0 ensuring control, comfort and within restrictions
Week 12	– initially commence supported and with arm by side e.g. supine/ sitting with arm
	supported; do not use weights for RC control over 0.5kg
	 Progress to active-assisted to active movement in front of body within restrictions as
	control, stability and comfort allows e.g. table slides progress range and progress to wall slides incorporating kinetic chain / proprioception as appropriate
	 Gentle pain free submaximal isometric internal rotation in neutral with upper limb
	supported may commence
	 Progress deltoid activation in well controlled range and progression from weight of
	the arm to low weights, - short to long lever, supine – reclined – sitting/standing as
	control allows
	Progression Criteria: Patient should be comfortable with good control of movement before
	progressing to next phase
	Sling: Discard sling if not already
	Restrictions:
	 Hand behind back never forced
12 weeks +	 Avoid heavy lifting for 6 months minimum.
	\circ Some activities/ sports may not be appropriate $$ - liaise with surgeon as is variable
	depending on the individual
	Exercise suggestions/ considerations:
	\circ Progress rotator cuff control exercises to against gravity / unsupported as able

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	 Progress deltoid through range as control and comfort allows if used, weights should be kept low, using repetitions as appropriate for the individual patient Progress AROM for function; ensure good movement pattern and consider pre-
Milestones	 Progress AROM for function; ensure good movement pattern and consider pre- operative movement level/ soft tissue quality/ individual expectations
Week 6	Sling discarded, increasing active assisted movement
Week 12	Improving function as appropriate for individual

Return to Functional Activities

Driving	Timeframes will differ on an individual basis. Please discuss with your care team if you need further guidance.
Swimming	12 weeks + depending on stroke
Lifting	4-6 months + liaise with care team
Work	Sedentary 3-6 weeks/ Manual 3 months + liaise with surgeon re
	appropriateness

References: Kennedy, J.S., Garrigues, G.E., Pozzi, F., Zens, M.J., Gaunt, B., Phillips, B., Bakshi, A. & Tate, A.R. (2020). The American Society of Shoulder and Elbow Therapists' consensus statement on rehabilitation for anatomic total shoulder arthroplasty. *Journal of shoulder and elbow surgery*, *29*(10), 2149-2162. <u>https://doi.org/10.1016/j.jse.2020.05.019</u>

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