# **Post-Operative Shoulder Rehabilitation**

These multidisciplinary guidelines form the basis of a progressive rehabilitation programme. These are general guidelines for the most common shoulder surgical procedures and are not designed to replace sound clinical reasoning. Any specific instructions from the consultant orthopaedic team either verbally or in post-operative notes must take precedence.

#### **Rehabilitation Goals**

- Preserve the integrity of surgical repair
- Restoration of functional range of movement
- Restoration of Rotator Cuff (RC) and scapula control through range
- Restore proprioceptive acuity
- Prevent compensatory movement patterns that may compromise recovery

#### **Principles of Post-operative shoulder rehabilitation**

## The following should be considered at all times throughout the rehabilitation process:

- Good communication with the consultant team is paramount to a successful outcome for the patient.
- Comprehensive pain control should be in place and supported prior to discharge from hospital. Patients should be educated regarding appropriate levels of pain, particularly in response to exercise to reduce fear and anxiety.
- Cervical spine, elbow, wrist and hand activity should be maintained throughout.
- Quality of movement should not be sacrificed in the pursuit of range.
- Progression should follow the basic principles of rehabilitation from passive (PROM), active assisted (AAROM), active (AROM), isometric and resistance training.
- Rehabilitation programmes should only include 2-4 exercises. Too many exercises will affect adherence.
- Consider using short lever movements or closed kinetic chain (CKC) positions in appropriate situations.
- Consider incorporating functional movements whenever possible for example use of the hand for specific occupational or sports activities.
- Functional milestones are for guidance only. Patients should not be accelerated through time markers without discussion with a member of the consultant team. Similarly, range, control and strength goals must be met before patients are deemed ready for progression, regardless of whether or not they have reached the time marker.
- The law states that patients MUST be in full control of a car before returning to driving. It is the patient's responsibility to ensure this and to inform their insurance company of their surgery.

### Acute pectoralis major repair

Day 0	0-2 weeks	2-4 weeks	4-6 weeks	6-12 weeks	12weeks +
Sling / collar & cuff for 4- 6/52, removing for axillary hygiene and exercises	Continue with sling / collar & cuff as instructed	Passive forward flexion to 90 degrees	Gradually wean out of sling / collar & cuff	Discard sling Progress functional ROM	Progress functional active range of movement, strength and endurance
Neck/elbow/wrist/hand movements  Pendular shoulder exercises	Continue with neck/elbow/wrist/hand movements  Pendular shoulder exercises	External rotation to neutral only	Passive abduction to 90 degrees No resistance exercises	Light resistance exercises as tolerated – as a guideline no more than the weight of a cup of tea within field of vision, using short lever positions  Passive abduction to 90 degrees  Progress from passive, to AAROM, to AROM as directed by therapist	Progress cuff and scapula recruitment through range – isometrics in varying starting positions could be considered  Progress kinetic chain integration  Return to work/sport – gradually over a further 12/52 depending on requirements
AVOID:- • External rotation past neutral • Abduction • Resistance activities			AVOID:- • Resistance activities		

## **Key clinical points**

- Soft tissue healing is the priority in the first few weeks after surgery.
- Strength exercises should only be introduced in accordance with the principles of rehabilitation, for example:
  - Ability to perform a movement with the correct movement pattern
  - The patient being able to maintain good rotator cuff and scapula control
  - Evidence that movement can be performed without compensatory muscle patterning