

EVIDENCE-BASED

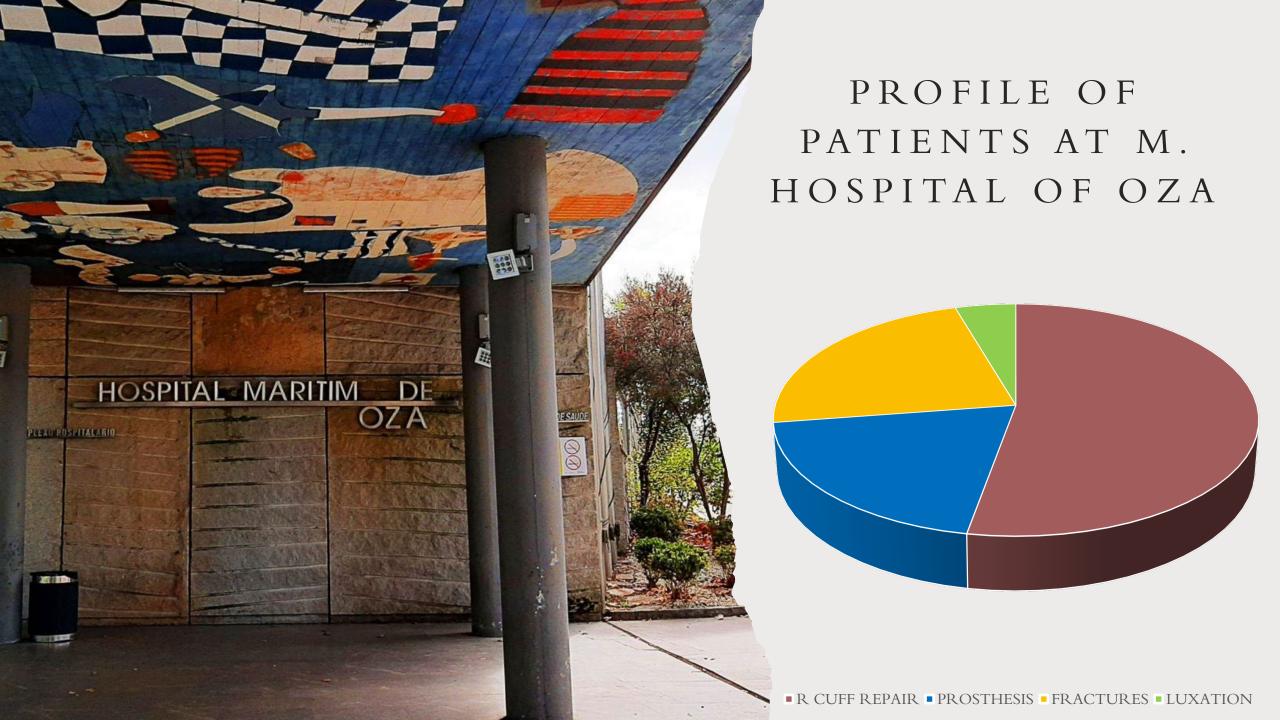
BEATRIZ MARTINEZ TOLEDO

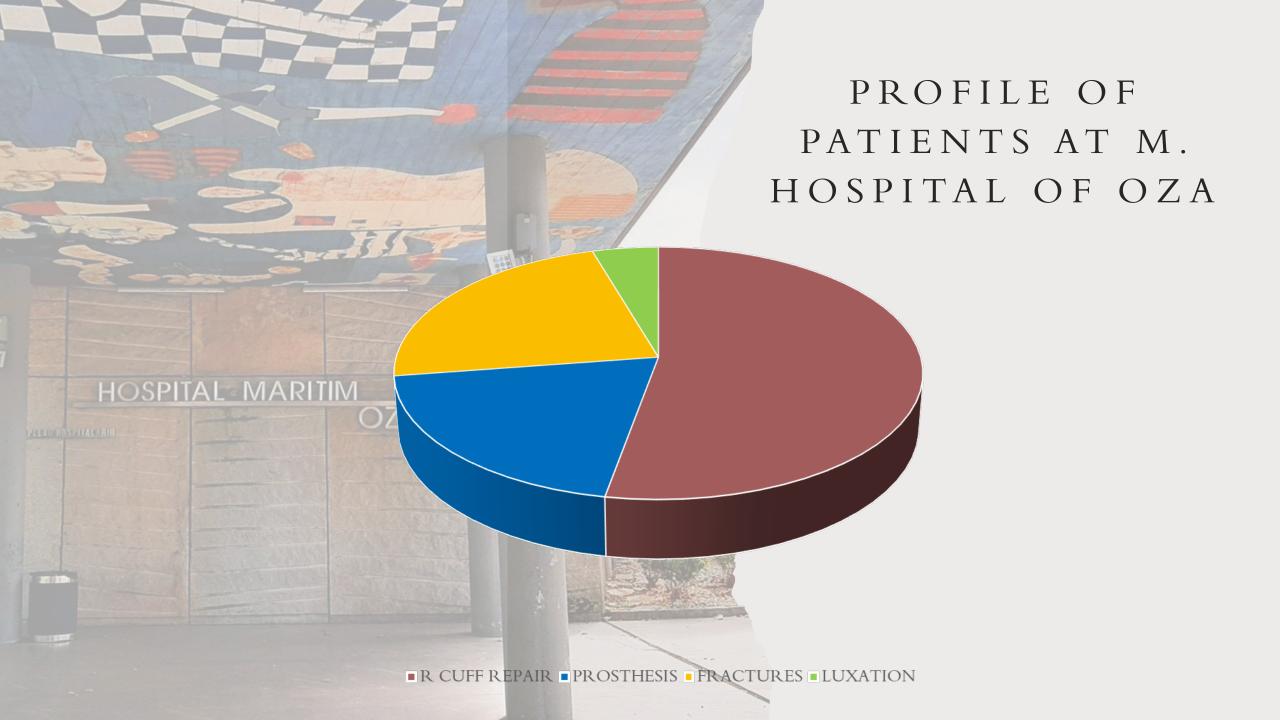
PT at the Faculty of Physical Therapy

University of A Coruña

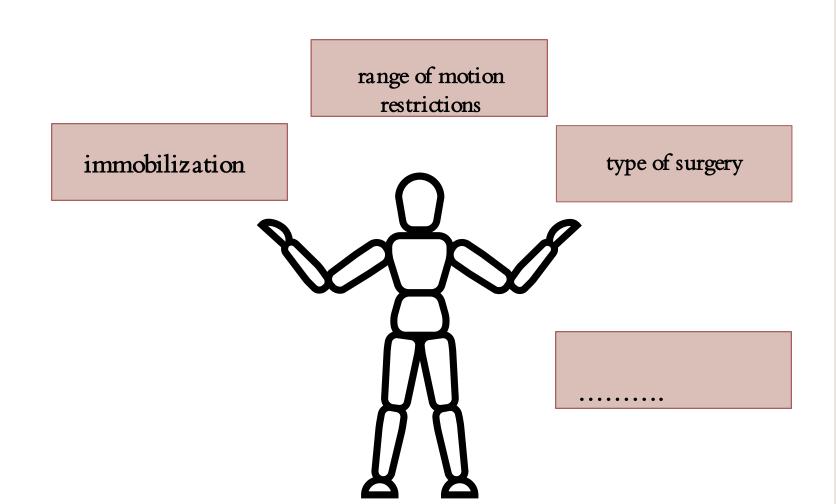








PHYSIOTHERAPY IN ROTATOR CUFF REPAIR: VARIABILITY OF FACTORS



There is not strong evidence on...

There is not strong evidence on...

More studies are needed to increase the evidence on...

There is not strong evidence on...

More studies are needed to increase the evidence on...

Guidelines Meta-analysis Systematic reviews

International consensus that suggests specific therapeutic interventions

More studies are needed to increase the evidence on...

Guidelines Meta-análisis Systematic reviews

International consensus that suggests specific therapeutic interventions

Published on the basis of the best available evidence...

Reduce the variability

Look for patterns of practice





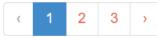


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Click on a title to view details of that record. If your search has returned many records you may need to move to the next page (at the top or bottom of the list of records). To display a list of records from one or a series of searches, click on Select and then Display Selected Records

Found 42 records



Title	Method	Score (/10)	Select Record
Rehabilitation following rotator cuff repair: a work of the commission rehabilitation of the German Society of Shoulder and Elbow Surgery eV (DVSE) in collaboration with the German Association for Physiotherapy (ZVK) eV, the Association Physical Therapy, Association for Physical Professions (VPT) eV and the Section Rehabilitation-Physical Therapy of the German Society for Orthopaedics and Trauma eV (DGOU)	practice guideline	N/A	<u>Select</u>
The effect of rehabilitation time on functional recovery after arthroscopic rotator cuff repair: a systematic review and meta-analysis	systematic review	N/A	<u>Select</u>
Conservative management versus surgical repair in degenerative rotator cuff tears: a systematic review and meta-analysis	systematic review	N/A	Select

Rehabilitation following rotator cuff repair

A work of the Commission Rehabilitation of the German Society of Shoulder and Elbow Surgery e. V. (DVSE) in collaboration with the German Association for Physiotherapy (ZVK) e. V., the Association Physical Therapy, Association for Physical Professions (VPT) e. V. and the Section Rehabilitation—Physical Therapy of the German Society for Orthopaedics and Trauma e. V. (DGOU)

This is an English translation of the publication Rehabilitation nach Rotatorenmanschettenrekonstruktion. Eine Arbeit der Kommission Rehabilitation der Deutschen Vereinigung für Schulter und Ellenbogenchirurgie e. V. (DVSE) in Zusammenarbeit mit dem Deutschen Verband für Physiotherapie (ZVK) e. V., dem Verband Physikalische Therapie, Vereinigung für die physiotherapeutischen Berufe (VPT) e. V. und der Sektion Rehabilitation—Physikalische Therapie der Deutschen Gesellschaft für Orthopädie und Unfallchirurgie e. V. (DGOU) Obere Extremität 2016, 11:16–31 DOI https://doi.org/10.1007/s11678-015-0346-9.

Introduction

Tears of the rotator cuff tendons (RC) are a frequent cause of shoulder complaints [44]. Improvement in terms of strength, movement and pain reduction can be expected after rotator cuff repair surgery [27]. Unfortunately, there is no consensus on the rehabilitation protocols and contents following the surgical procedure [24]. Conventional rehabilitation protocols after reconstruction of the rotator cuff (RCR) often vary considerably,

even in terms of basic content such as the length of immobilization, movement limitations and whether or not an orthosis should be used. There still is a lack of evidence for many common forms of rehabilitation contents, although in many health care systems evidence-based medicine has gained ground. In Germany, among others, the guideline program of the German Pension Insurance Association focused on this conflict [23, 25].



Journal of
Shoulder and
Elbow
Surgery

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CONSENSUS STATEMENT

The American Society of Shoulder and Elbow Therapists' consensus statement on rehabilitation following arthroscopic rotator cuff repair



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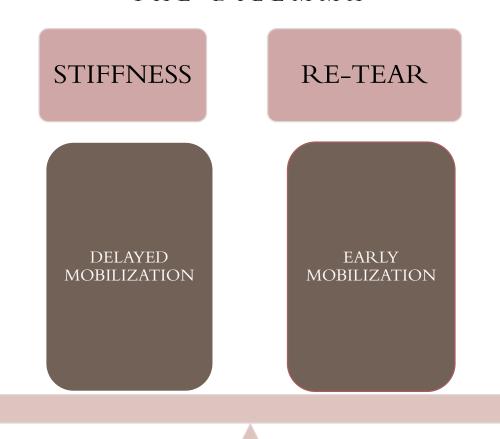
^dHuman Performance Rehabilitation Centers at St Francis Rehabilitation Center, Columbus, GA, USA

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^fRothman Institute, Jefferson Medical College, Philadelphia, PA, USA

⁸Department of Rehabilitation Services, Brigham & Women's Hospital, Boston, MA, USA

PHYSICAL THERAPY IN ROTATOR CUFF REPAIR. EVIDENCE-BASED THE DILEMMA



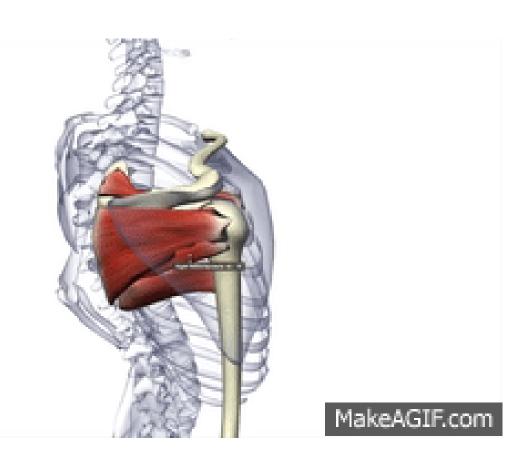
PHYSICAL THERAPY IN ROTATOR CUFF REPAIR. EVIDENCE-BASED THE DILEMMA

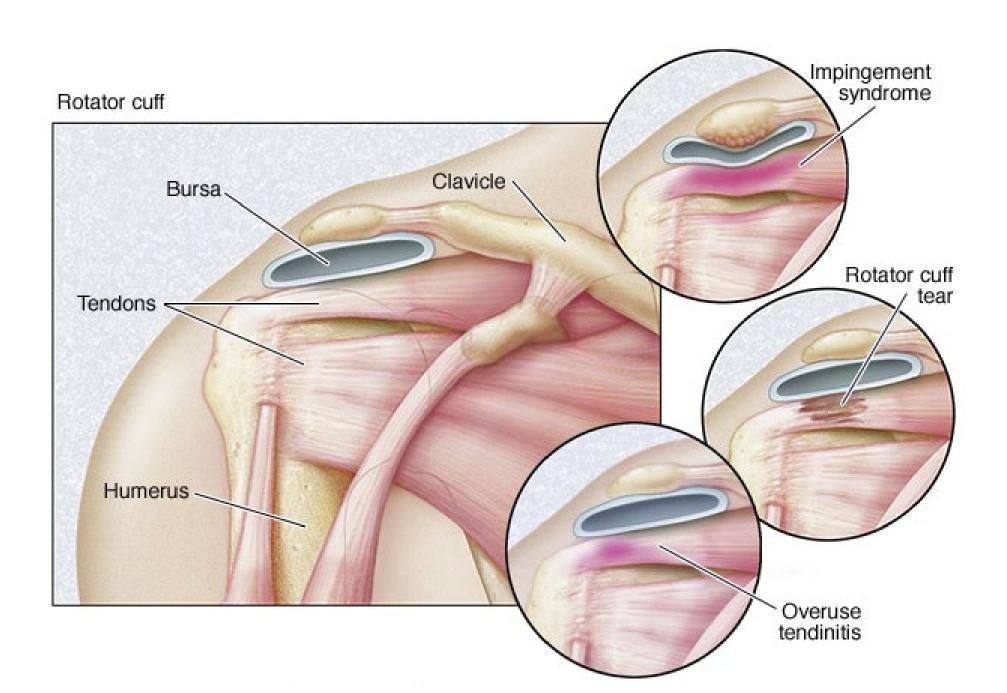
STIFFNESS RE-TEAR DELAYED EARLY MOBILIZATION **MOBILIZATION**

PHYSIOTHERAPY IN ROTATOR CUFF REPAIR. EVIDENCE-BASED THE DILEMMA

STIFFNESS RE-TEAR DELAYED EARLY MOBILIZATION MOBILIZATION

ROTATOR CUFF ANATOMY







PHYSIOTHERAPY IN ROTATOR CUFF REPAIR. EVIDENCE-BASED

- Rotator cuff tears affect approximately 30% of the population aged older than 60 years, and the rate doubles to nearly 60% of the population by age 80 years.
- Spain is the sixth country in the EU with the oldest population. As you can imagine, it will be an increasingly frequent pathology in the future.

CONSENSUS AMERICAN SOCIETY OF SHOULDER AND ELBOW

2 weeks

• Strict immobilization of shoulder

2-6 weeks

Protected passive ROM

6 weeks

• Protected active ROM

CONSENSUS AMERICAN SOCIETY OF SHOULDER AND ELBOW

2-6 weeks

• Protected passive ROM

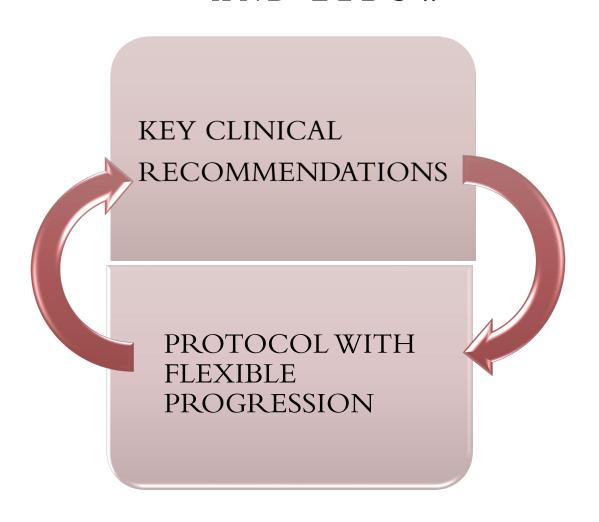
6 weeks

• Protected active ROM

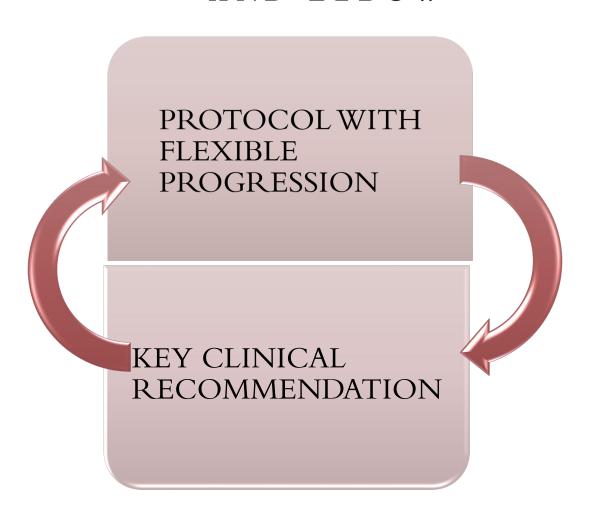
12weeks

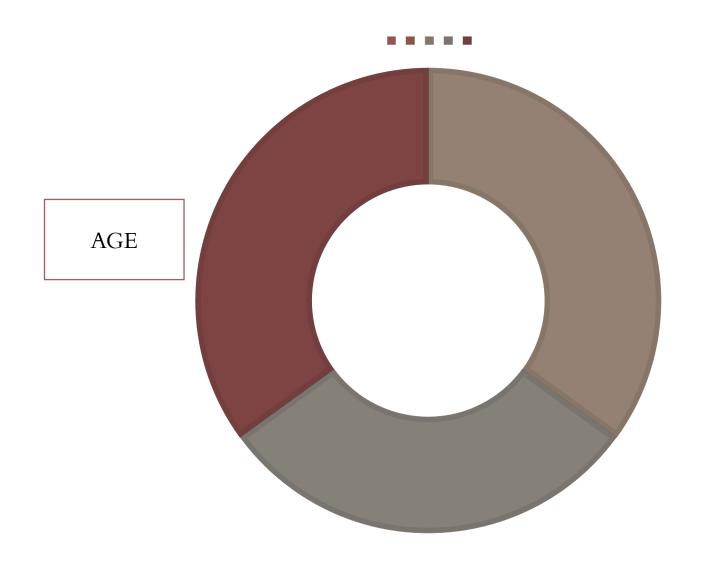
• Gradual strengthening progression

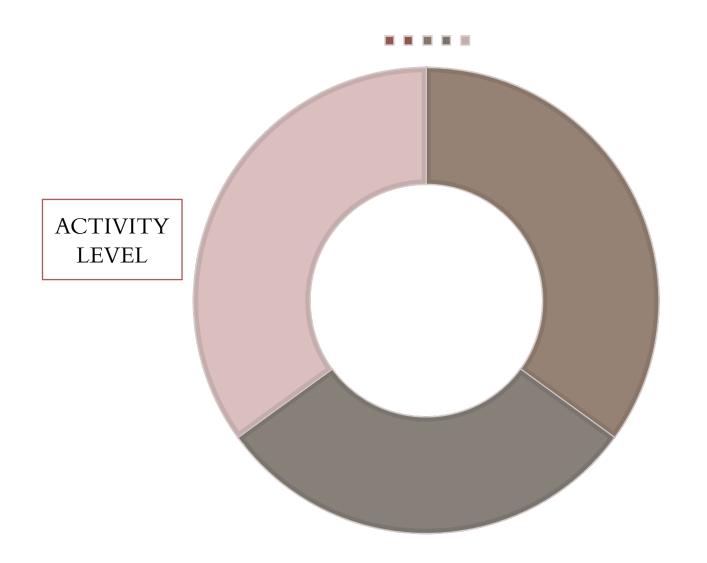
CONSENSUS AMERICAN SOCIETY OF SHOULDER AND ELBOW

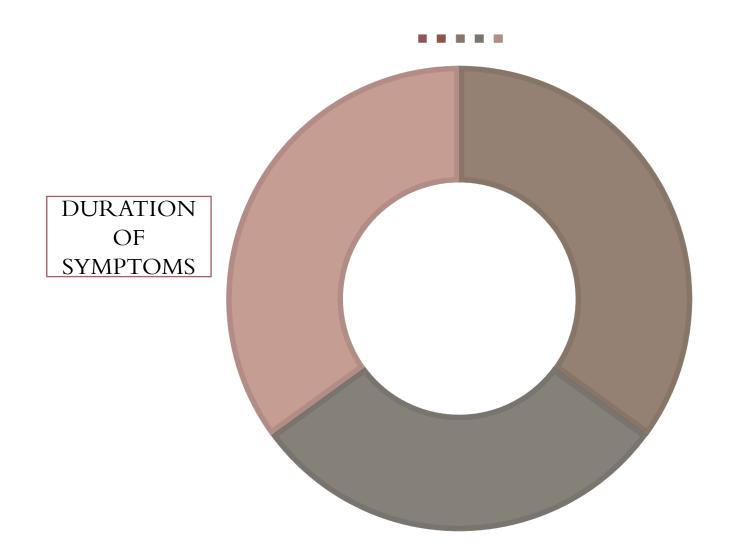


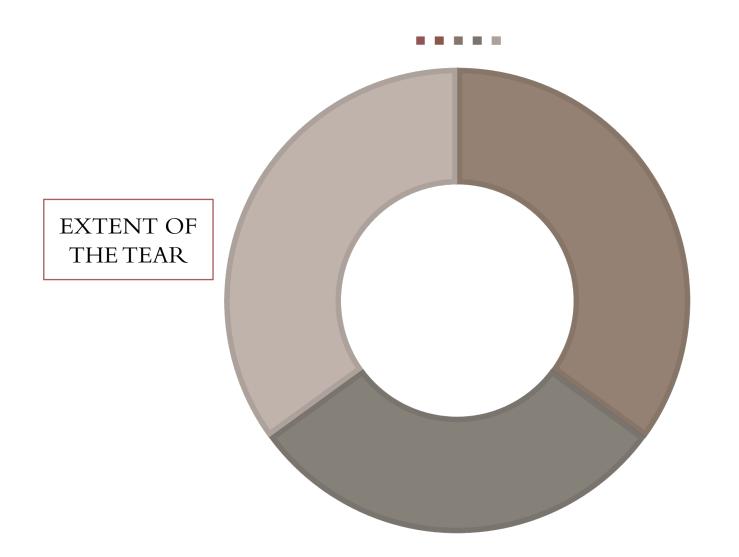
CONSENSUS AMERICAN SOCIETY OF SHOULDER AND ELBOW

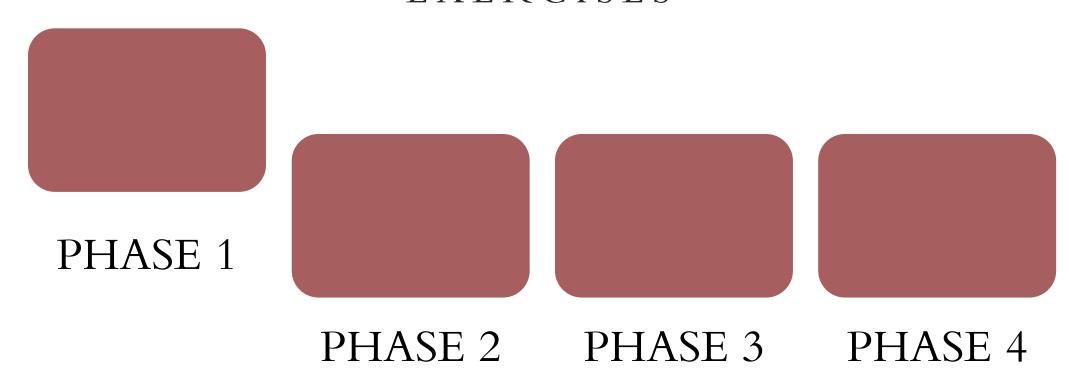


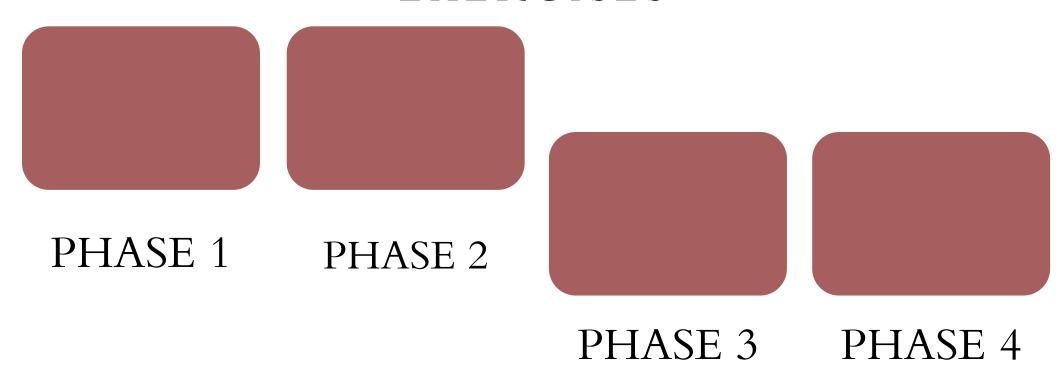


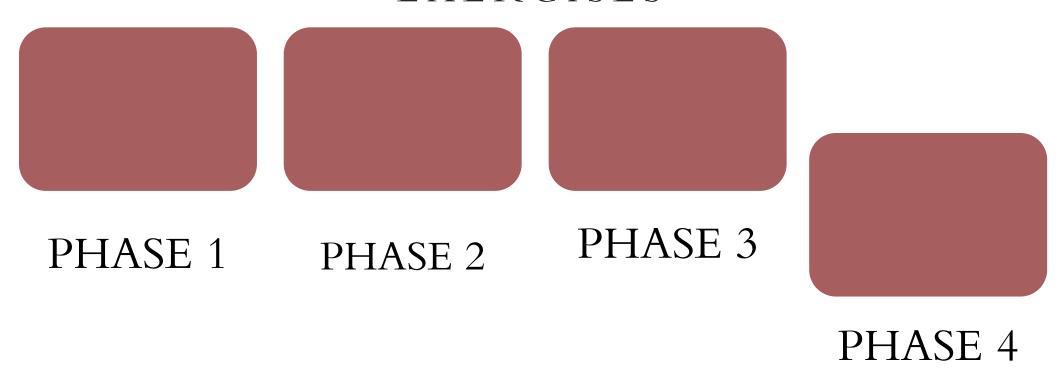














SCALES TO PROGRESS INTO THE PHASES

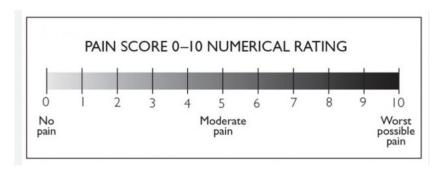
- Scale ASES
- Numeric Pain Rating Scale
- Penn Shoulder Score
- Dash Questionnaire

The American Shoulder and Elbow Surgeons Standardized Shoulder Assessment and Shoulder Score Index

	onounce beore much
Name	
Date	
Age Hand Dominance R L_ Ambi S	Sex M F
Diagnosis	nitial Assess? Y N
Procedure/Date	Follow-up M Y
PATIENT SELF-EVALUATION	DN
Are you having pain in your shoulder (circle correct answe Mark where your pain is	r) Yes No
Do you have pain in your shoulder at night? Do you take pain medication (aspirin, Advil, Tylenoi etc.)? Do you take narcotic pain medication (codeine or stronger)? How many pills do you take each day (average)? How bad is your pain today (mark line)?	Yes No Yes No Yes pills
No pain at all	Pain as bad as it can be
Does your shoulder feel unstable (as if it is going to dislocat How unstable is your shoulder (mark line)?	e)? Yes No
Very stable	Very Unstable
Circle the number that indicates your ability to do the following 0 = unable to do; 1 = very difficult to do; 2 = somewhat difficult.	activities:
Activity Right A	rm Left Arm
1. Put on a coat 0 1 2	3 0123
Sleep on your painful or affected side 0 1 2 3	
Wash back/do up bra in back 0 1 2	
4. Manage toileting 0 1 2	
5. Comb hair 0 1 2	
6. Reach a high shelf 0 1 2 7. Lift 10 th above shoulder 0 1 2	
7. Lift 10 lb above shoulder 0 1 2 8. Throw a ball overhand 0 1 2	
9. Do usual work - List: 0 1 2	
	3 0123

SCALES TO PROGRESS INTO THE PHASES

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SCALES TO PROGRESS INTO THE PHASES

- Scale ASES
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- Penn Shoulder Score
- Dash Questionnaire

	ease circle the number that best describes the level f difficulty you might have performing each activity	No difficulty	Some difficulty	Much difficulty	Can't do at all	do <u>before</u> injury
1.	Reach the small of your back to tuck in your shirt with your hand	3	2	1	0	x
2.	Wash the middle of your back/hook bra	3	2	1	0	×
3.	Perform necessary toileting activities	3	2	1	0	×
4.	Wash the back of opposite shoulder	3	2	1	0	×
5.	Comb hair	3	2	1	0	×
6.	Place hand behind head with elbow held straight out to the side	3	2	1	0	х
7.	Dress self (including put on coat and pull shirt off overhead	3	2	1	0	х
8.	Sleep on affected side	3	2	1	0	×
9.	Open a door with affected arm	3	2	1	0	X
10.	Carry a bag of groceries with affected arm	3	2	1	0	×
11.	Carry a briefcase/small suitcase with affected arm	3	2	1	0	x
12.	Place a soup can (1-2 lb) on a shelf at shoulder level without bending elbow	3	2	1	0	х
13.	Place a one gallon container (8-10 lb) on a shelf at shoulder level without bending elbow	3	2	1	0	х
14.	Reach a shelf above your head without bending your elbow	3	2	1	0	х
15.	Place a soup can (1-2 lb) on a shelf overhead without bending your elbow	3	2	1	0	х
16.	Place a one gallon container (8-10 lb) on a shelf overhead without bending your elbow	3	2	1	0	х
17.	Perform usual sport/hobby	3	2	1	0	×
18.	Perform household chores (cleaning, laundry, cooking)	3	2	1	0	х
19.	Throw overhand/swim/overhead racquet sports (circle all that apply to you)	3	2	1	0	х
20.	Work full-time at your regular job	3	2	1	0	x

Number of Xs x 3 =____(b), 60 -____(b) = ____ (c) (if no Xs are circled, function score = total of columns)

SCALES TO PROGRESS INTO THE PHASES

- Scale ASES
- Numeric Pain Rating Scale
- Penn Shoulder Score
- Dash Questionnaire

DISABILITIES OF THE ARM, SHOULDER AND HAND

THE



INSTRUCTIONS

This questionnaire asks about your symptoms as well as your ability to perform certain activities.

Please answer every question, based on your condition in the last week, by circling the appropriate number.

If you did not have the opportunity to perform an activity in the past week, please make your best estimate on which response would be the most accurate.

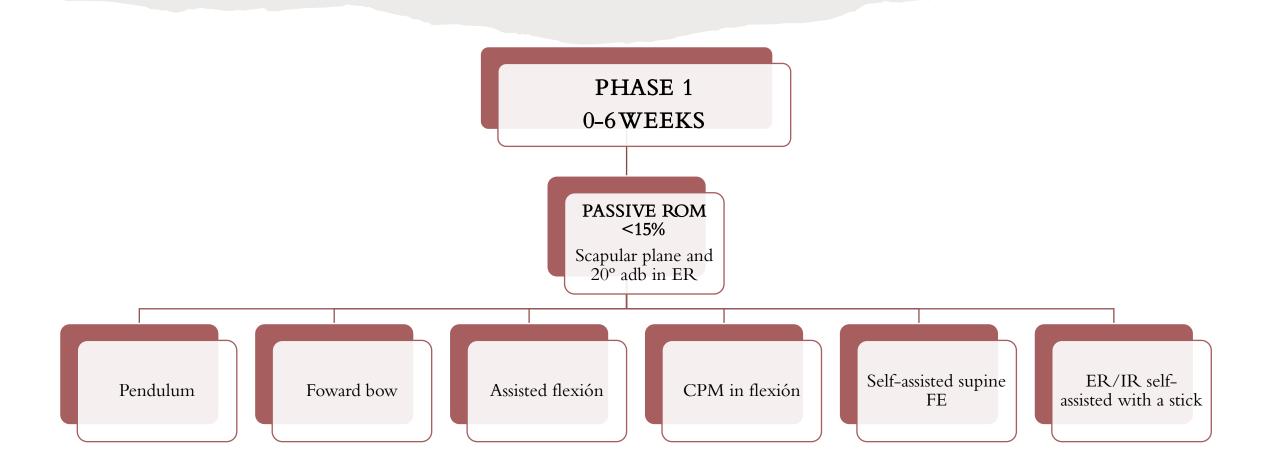
It doesn't matter which hand or arm you use to perform the activity; please answer based on your ability regardless of how you perform the task.



PHASE 1 0-6 WEEKS

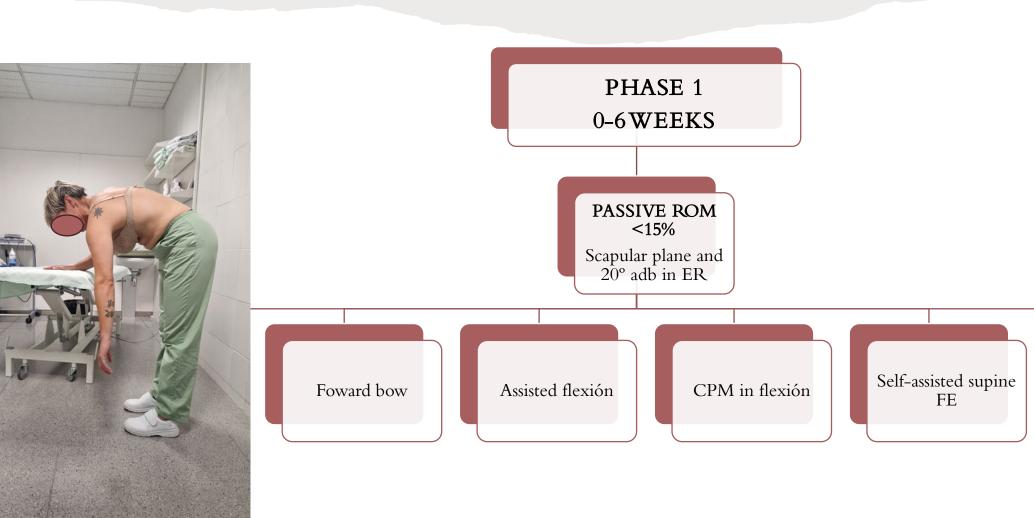
• PATIENT EDUCATION

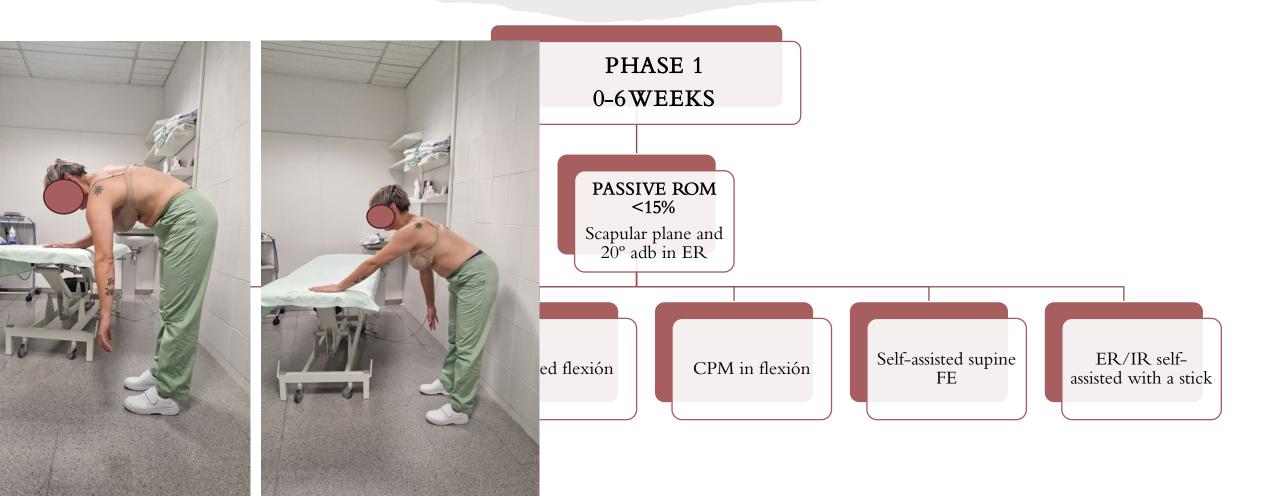
- Explain nature of the surgery
- Clarify interventions to avoid
- Limit use of upper extremity for activities of daily life
- Movements allowed



ER/IR self-

assisted with a stick





PHASE 1 0-6WEEKS







Self-assisted supine FE

ER/IR selfassisted with a stick

PHASE 1 0-6WEEKS





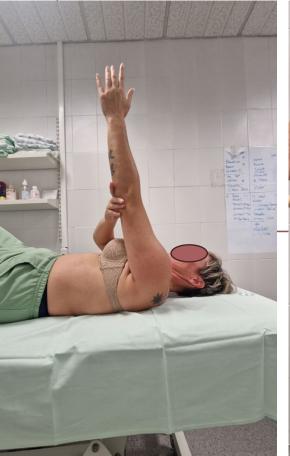




PHASE 1 0-6WEEKS

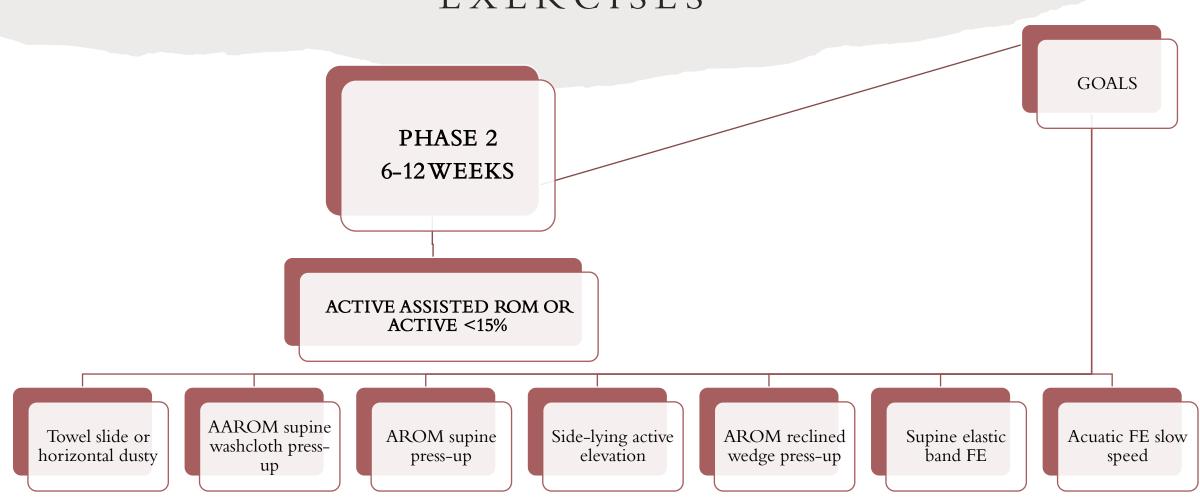


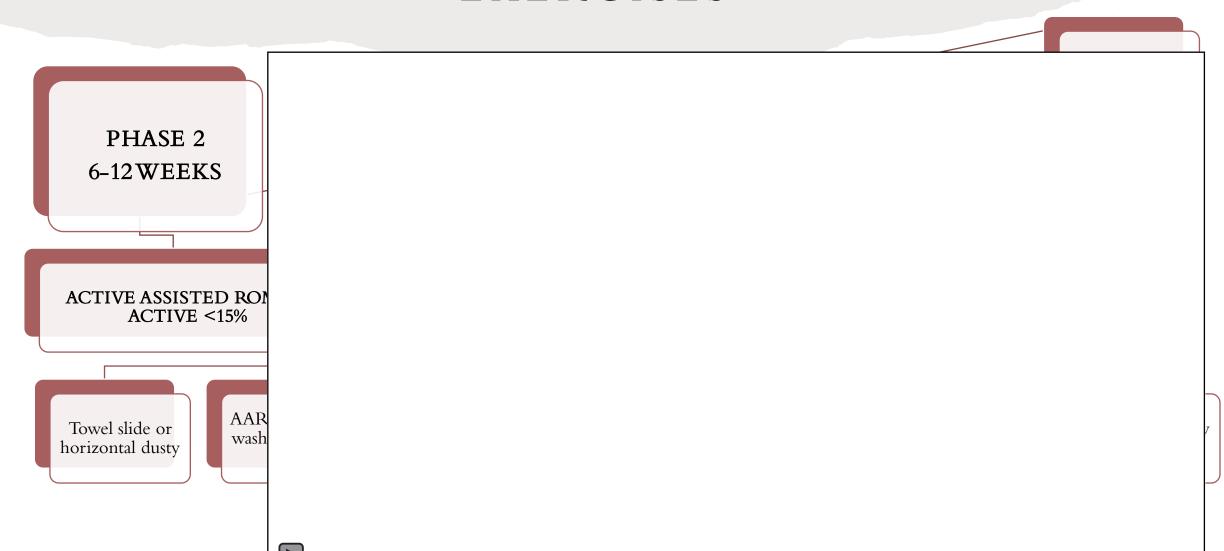


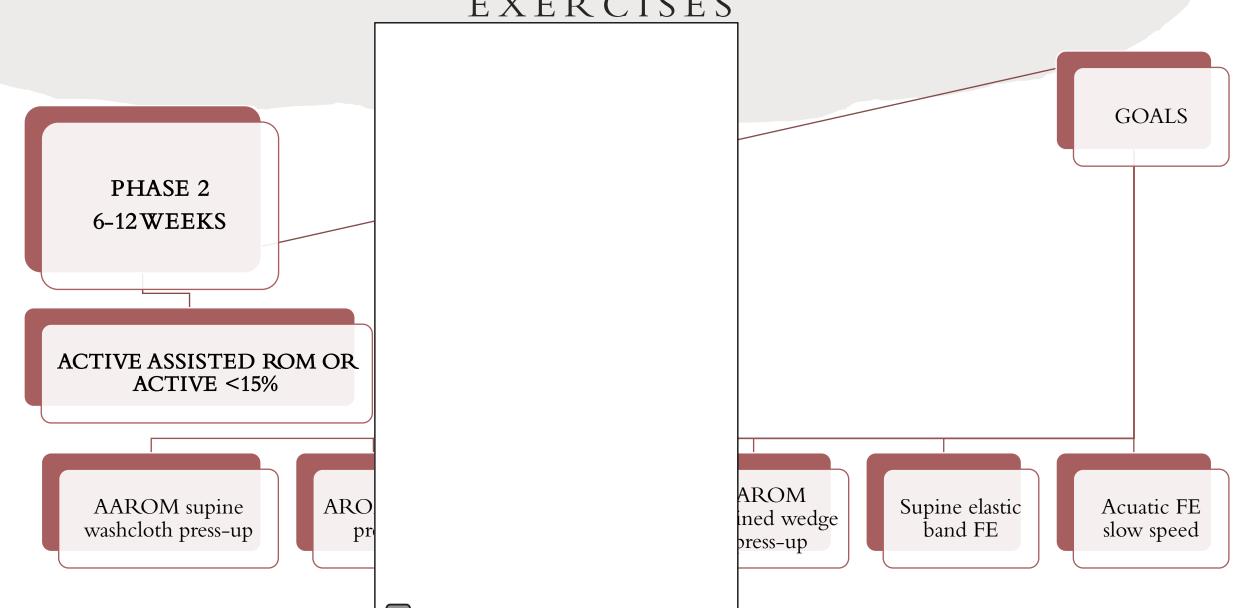


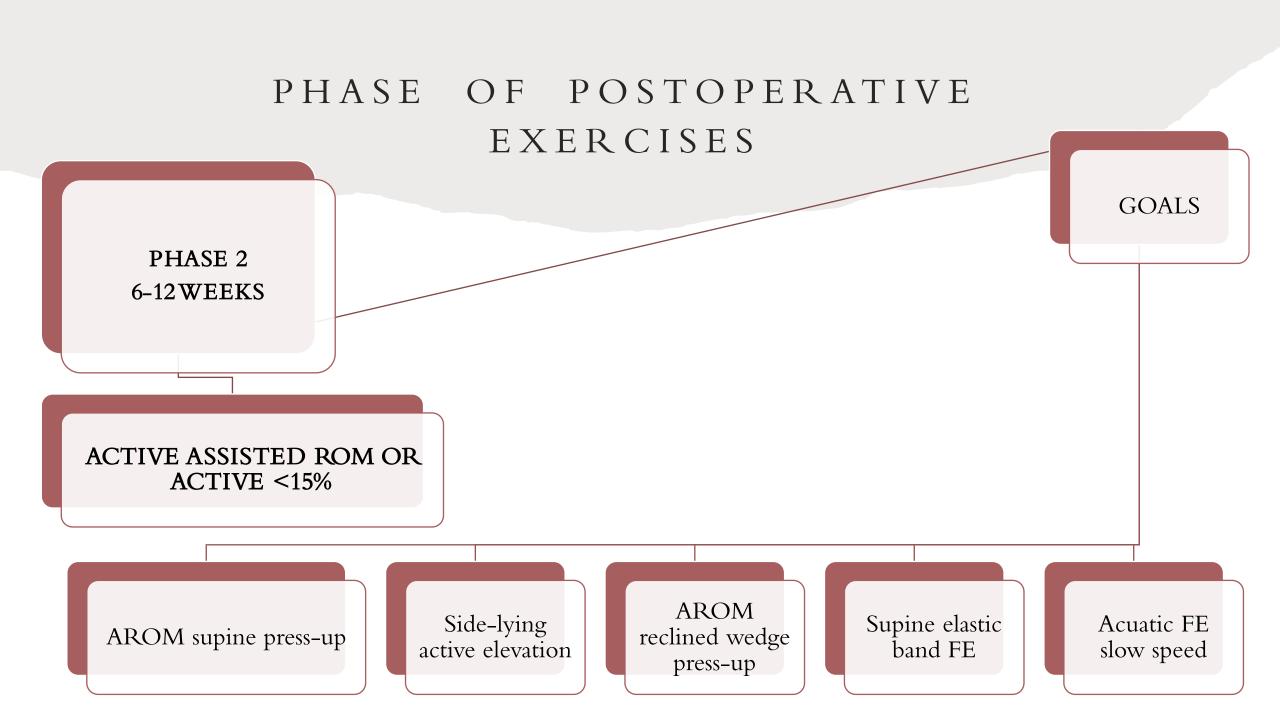


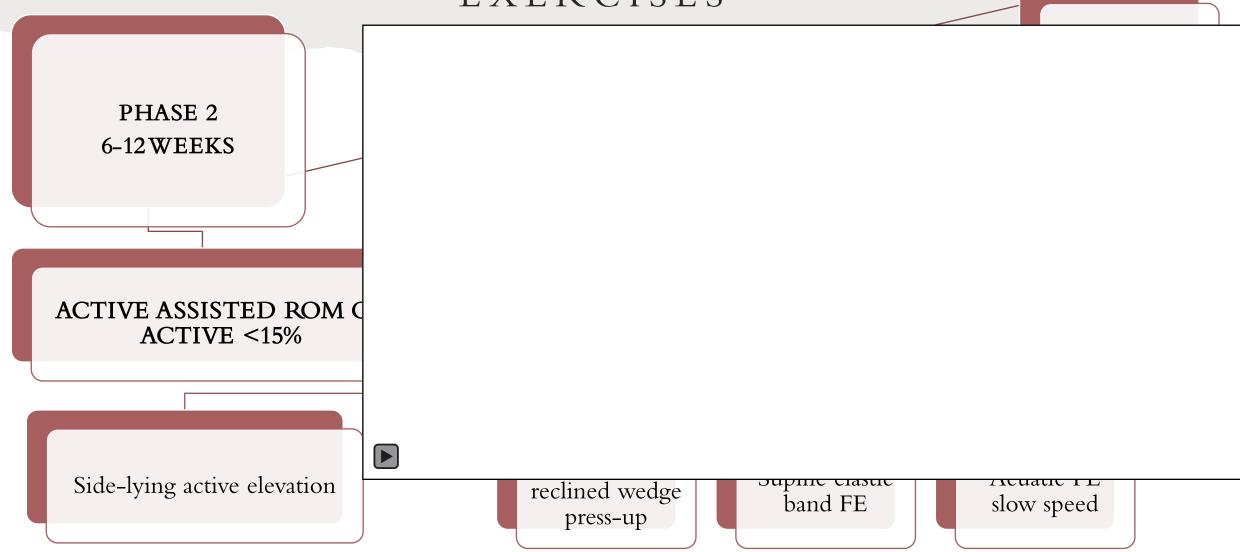
R/IR selfd with a stick

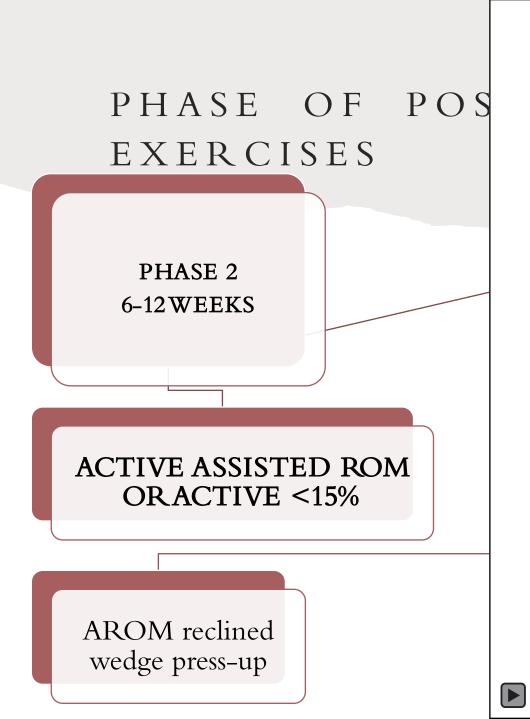


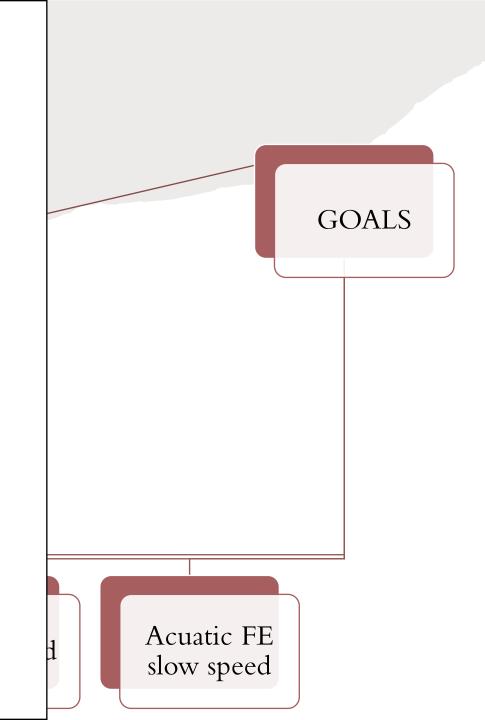














PHASE 2 6-12WEEKS

ACTIVE ASSISTED ROM OR ACTIVE <15%

Supine elastic band FE

GOALS Acuatic FE slow speed

PHASE 2 6-12WEEKS

ACTIVE ASSISTED ROM OR ACTIVE <15%

GOALS COMPLETED:

- 1. Full PROM without pain;
- 2. Active elevation of the arm to at least 120° without compensation;
- 3. Ability to perform light, non repetitive activities of daily life or work tasks without difficulty or pain
- 4. Muscle performance exercises should not begin until the patient's pain level is well controlled

PHASE 2 6-12WEEKS

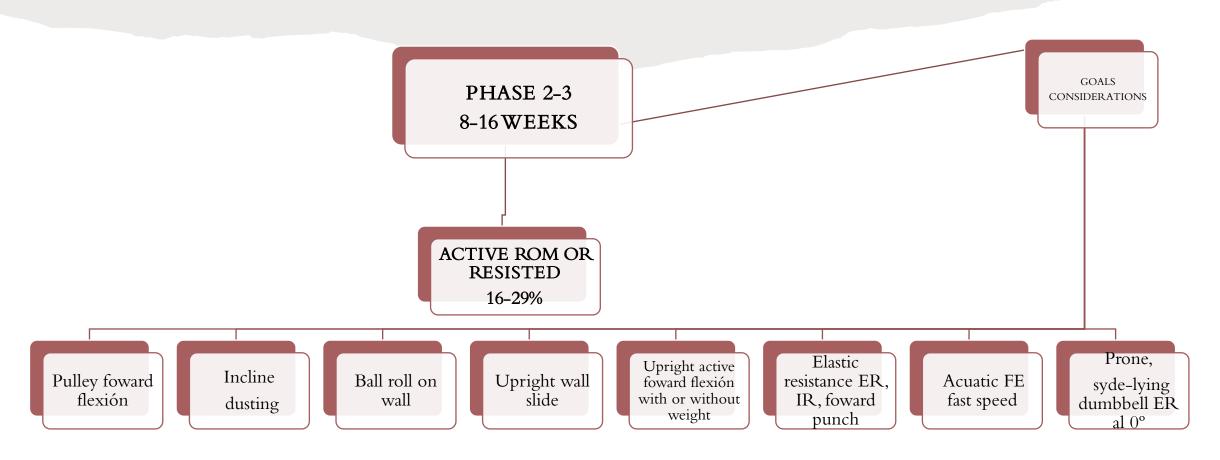
ACTIVE ASSISTED ROM OR ACTIVE <15%

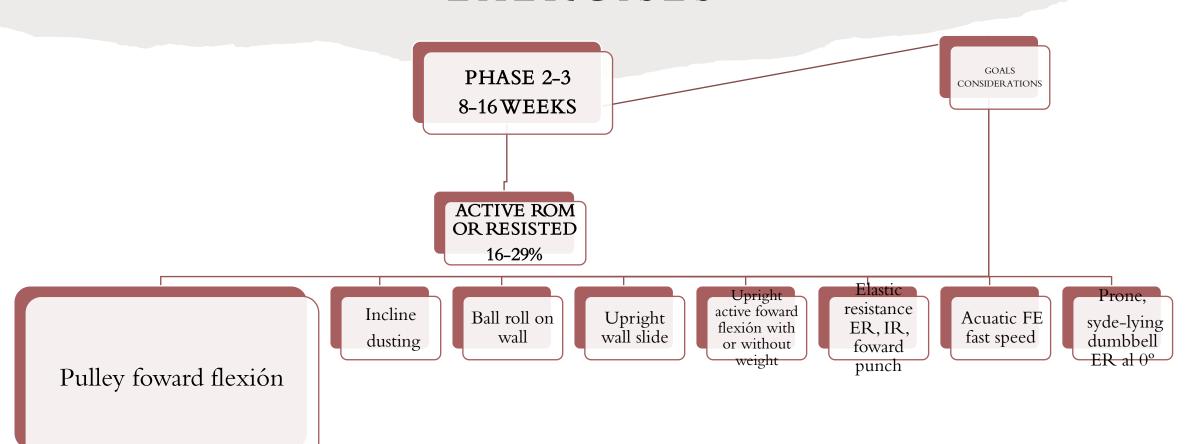
CONSIDERATIONS:

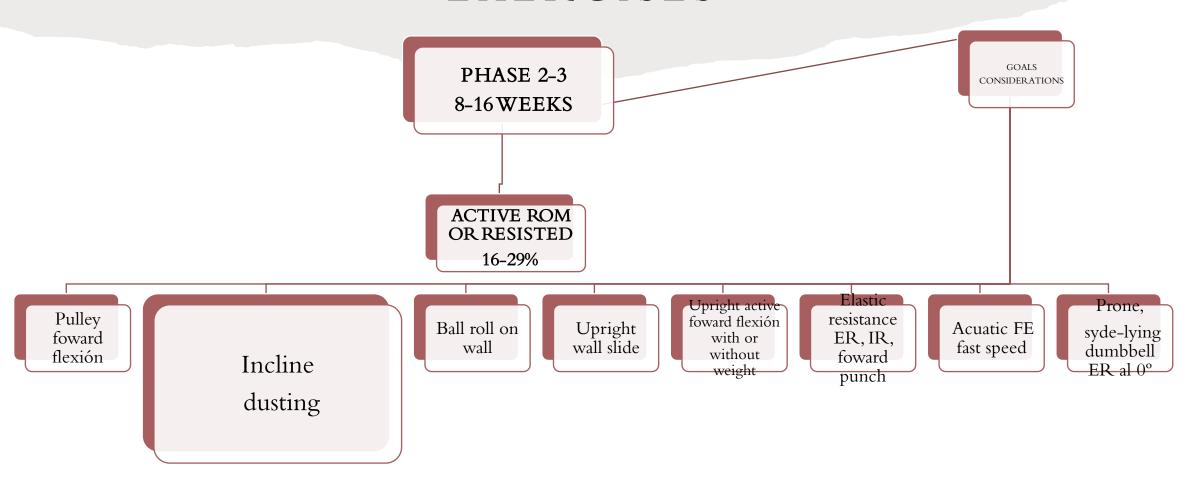
1. Maximal isometric exercises result in higher forces on the repair than AROM or concentric contractions.

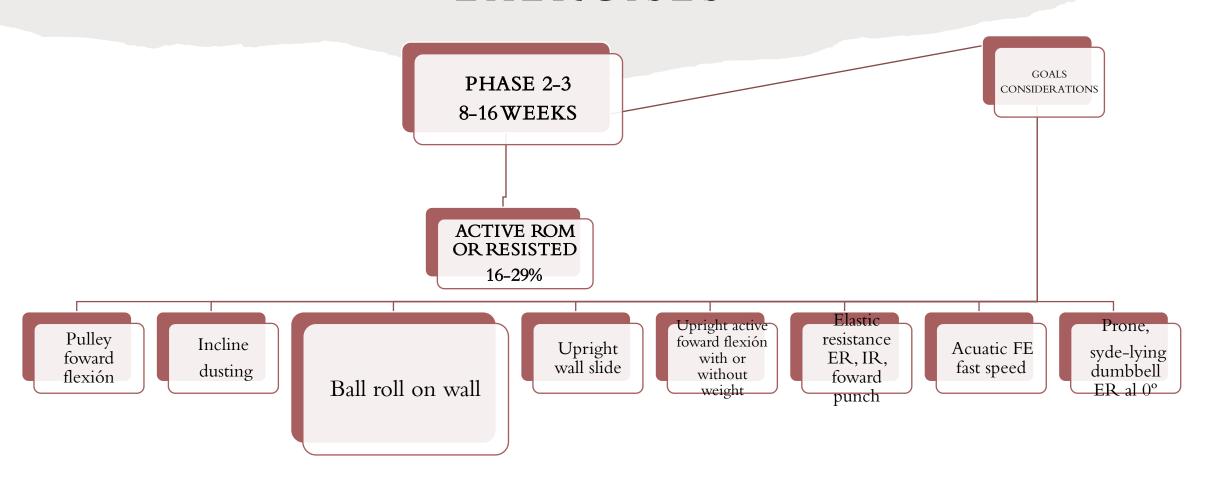
Better submaximal activation.

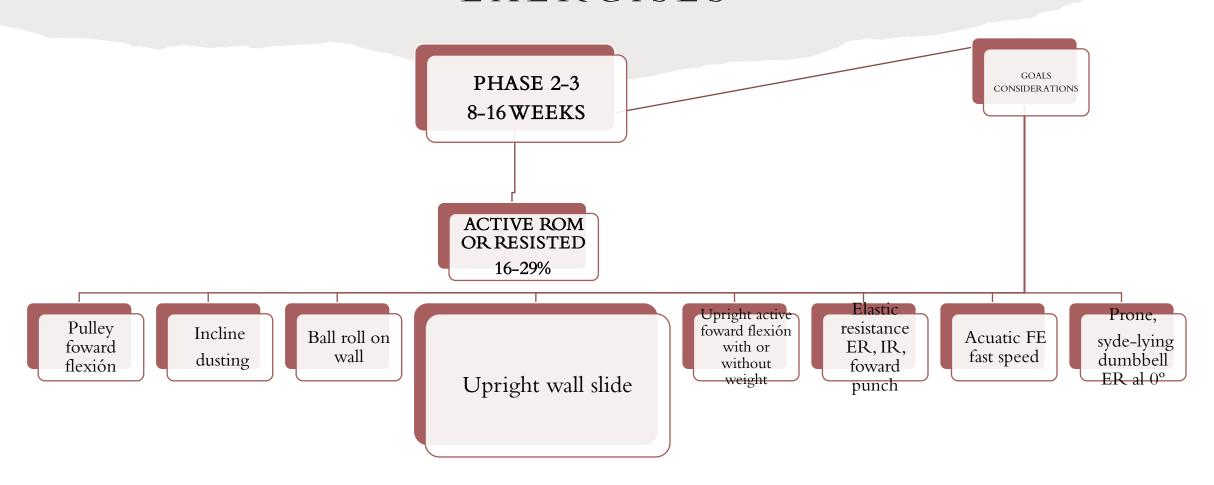
- 2. Isometric exercises for the periscapular muscles, deltoid, and trapezius.
- 3. Scapular dyskinesia, poor core stability, or spinal hypomobility

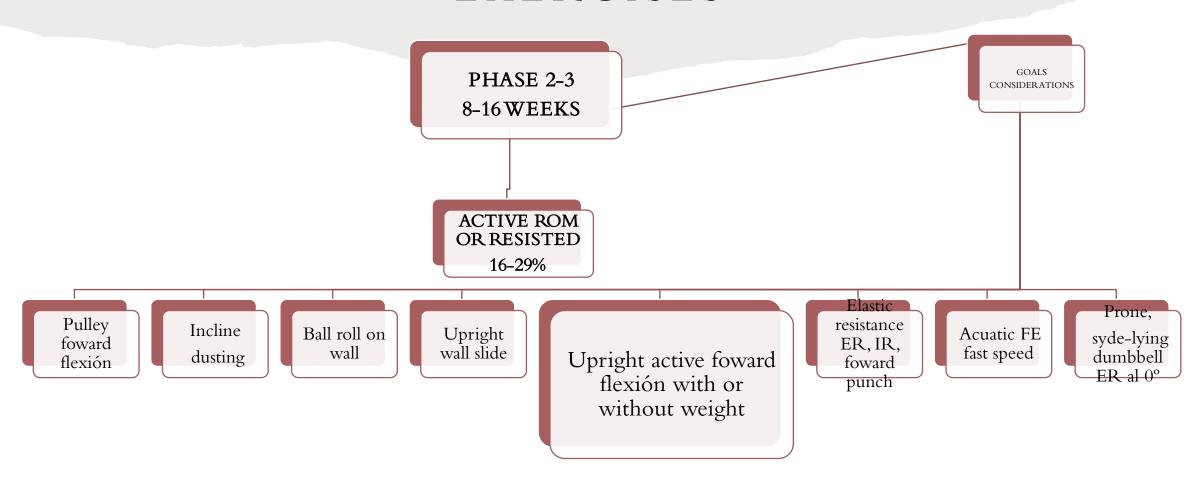


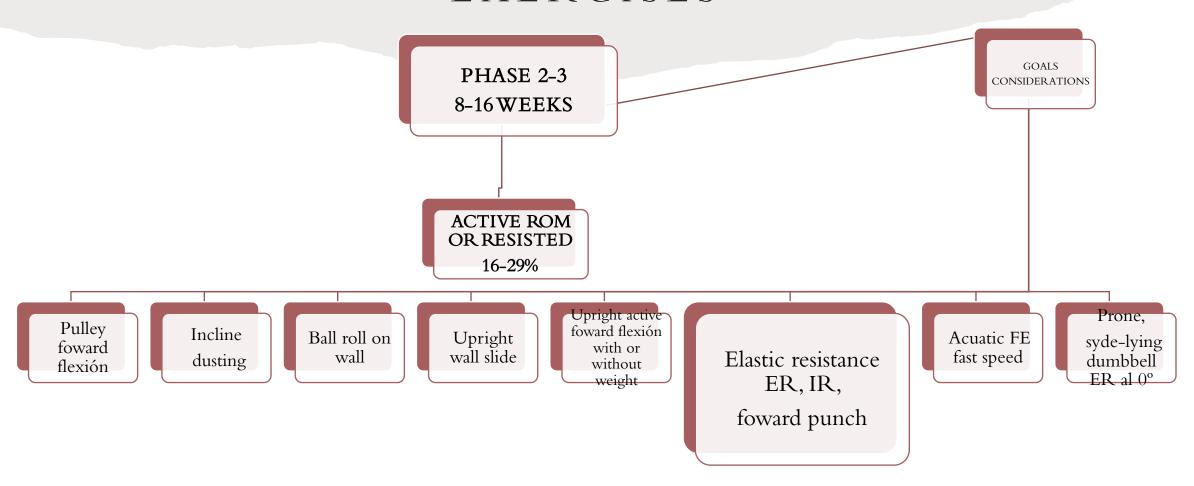


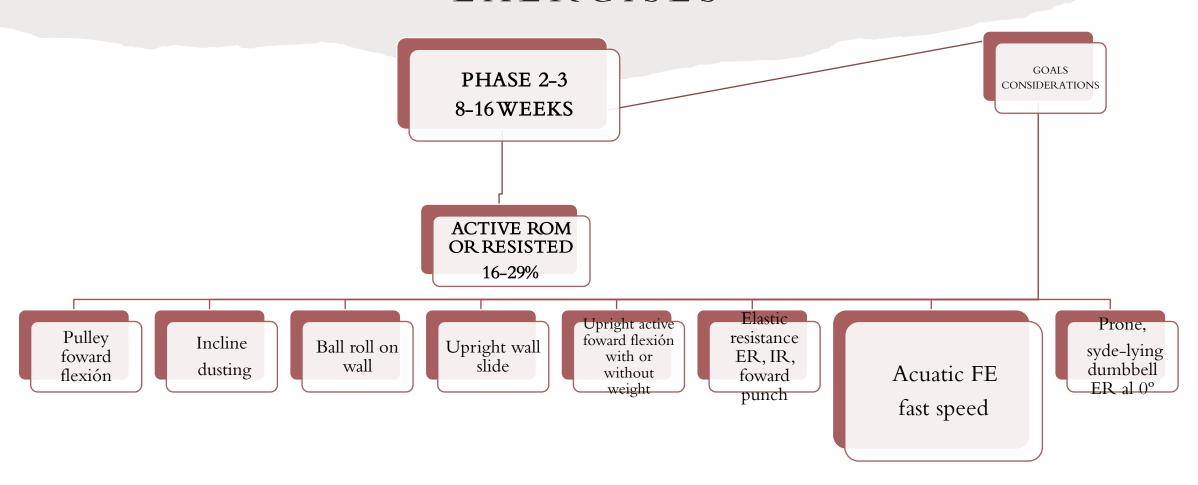




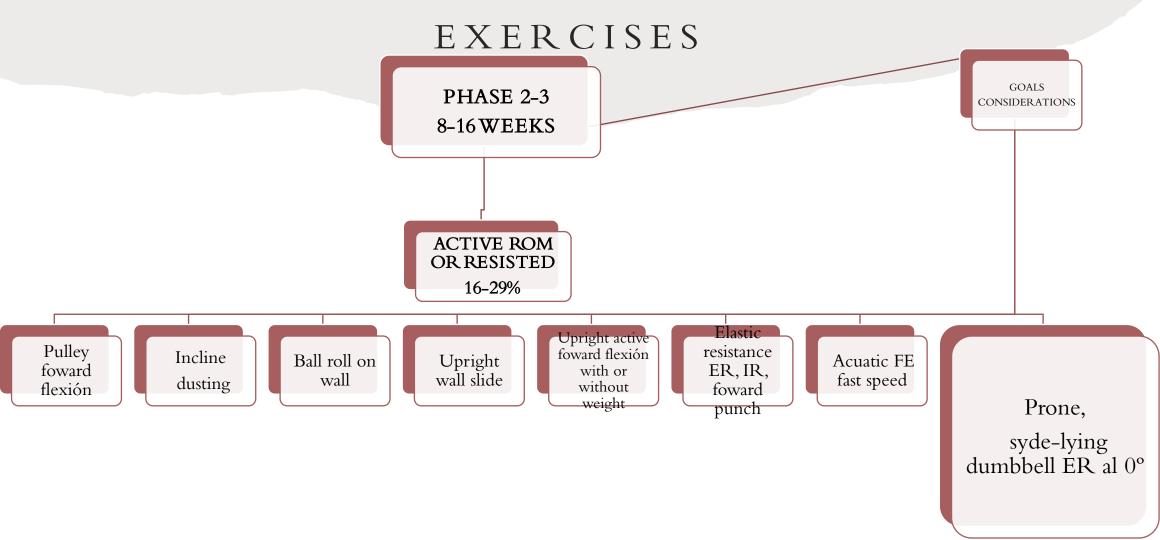


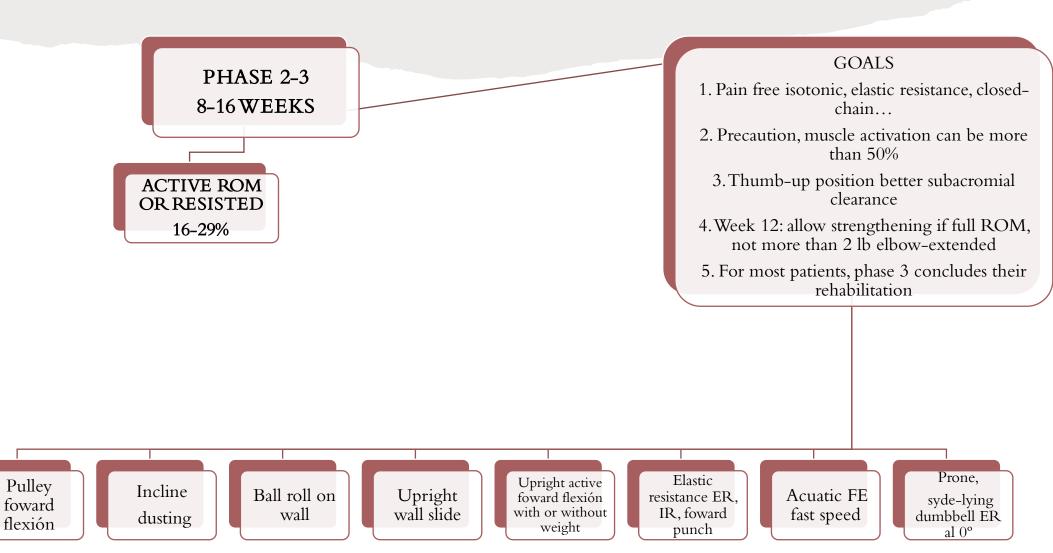


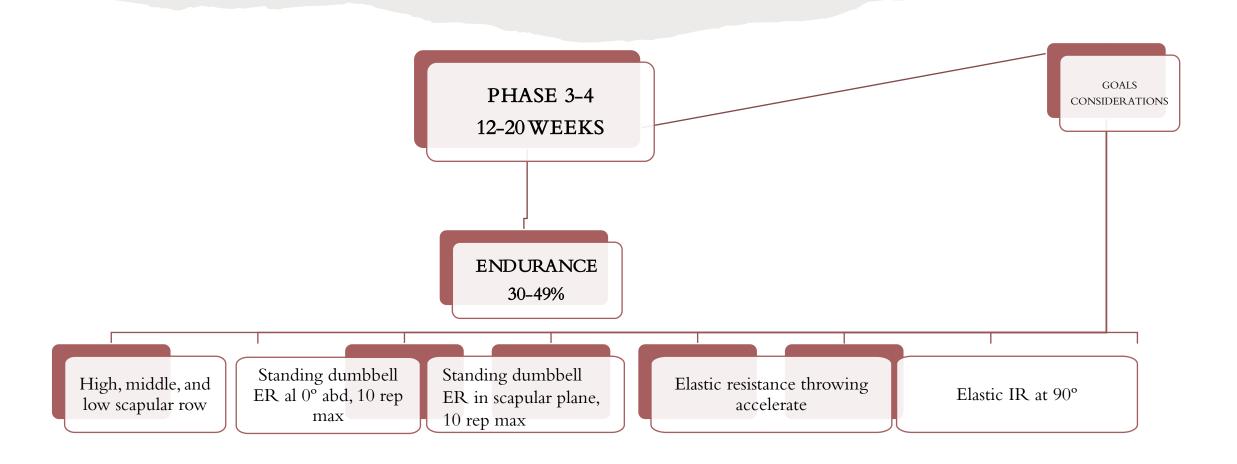




PHASE OF POSTOPERATIVE







FRECUENCY OF REHABILITATION

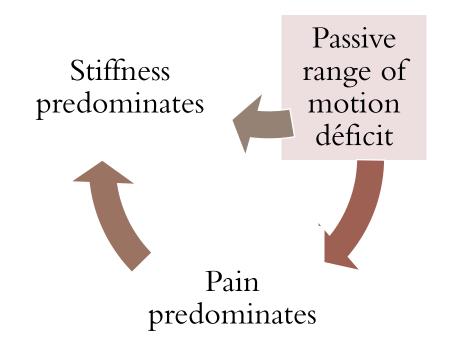
The ideal form are a matter of debate.

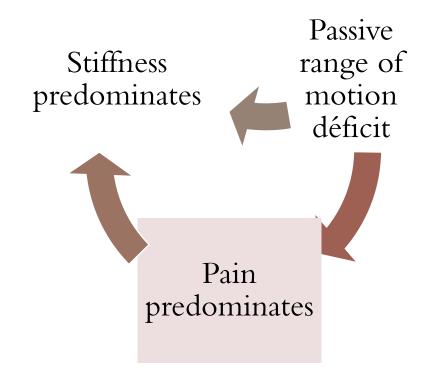
Our proposal:

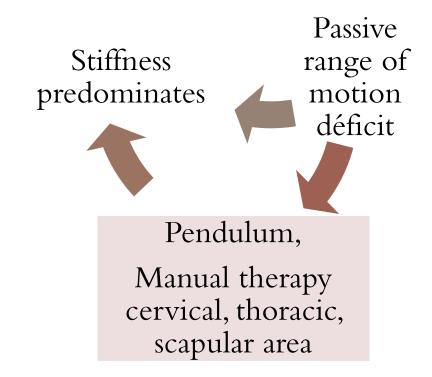
1 time/week phase 1 (0-6 weeks)

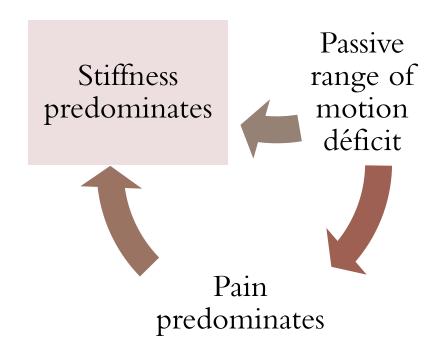
2 sessions/week for phases 2-4

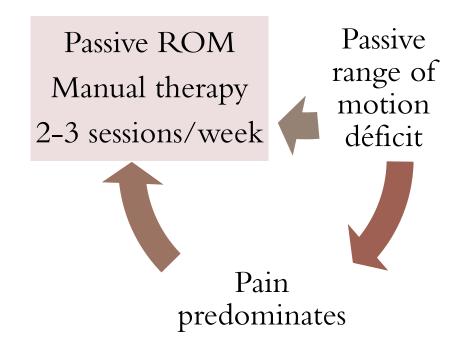
Total of sessions less than 25

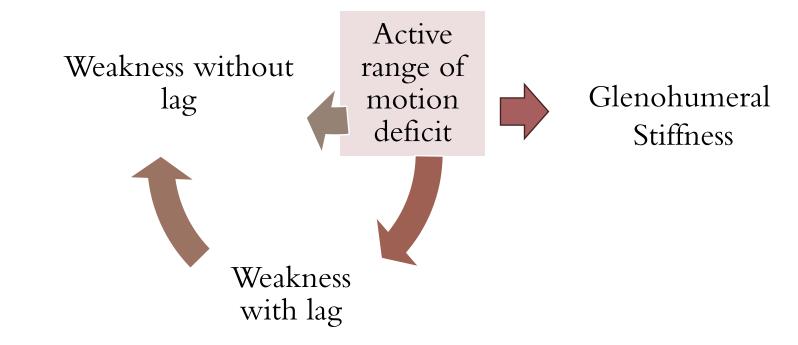


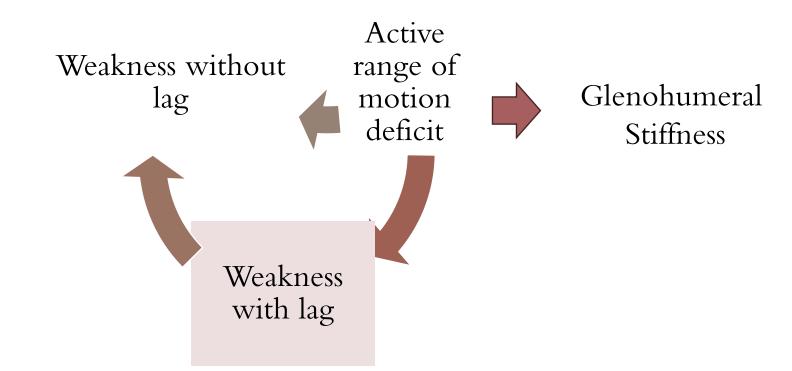


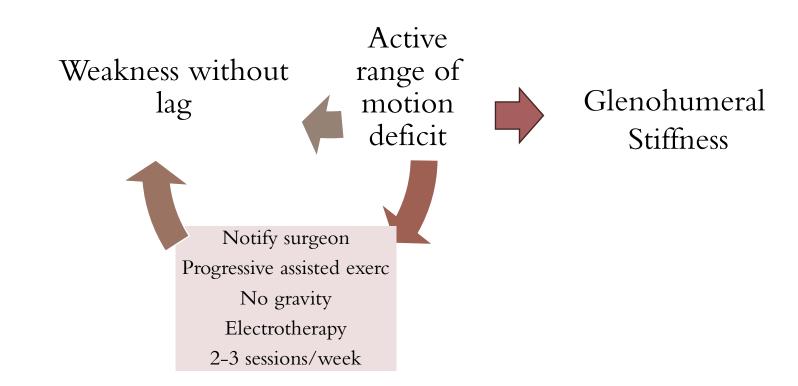


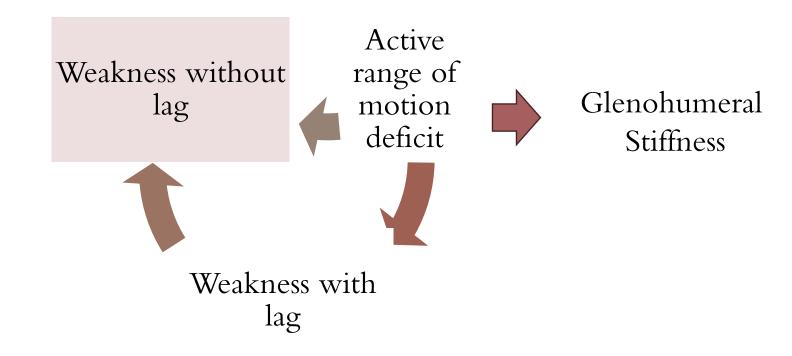


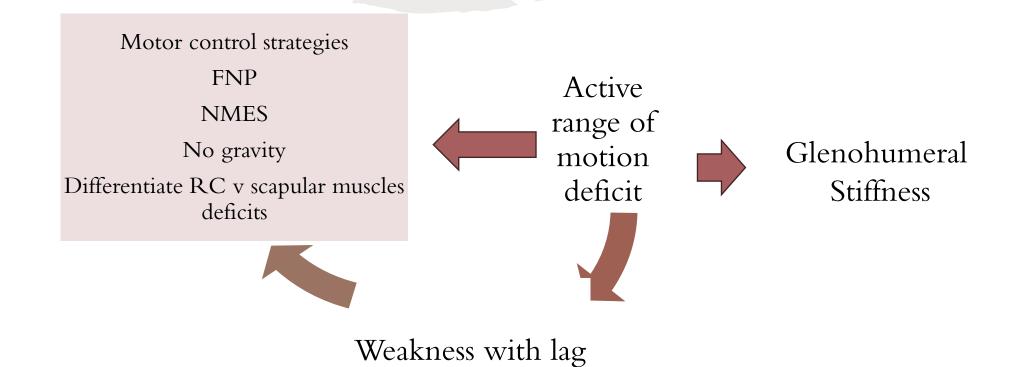


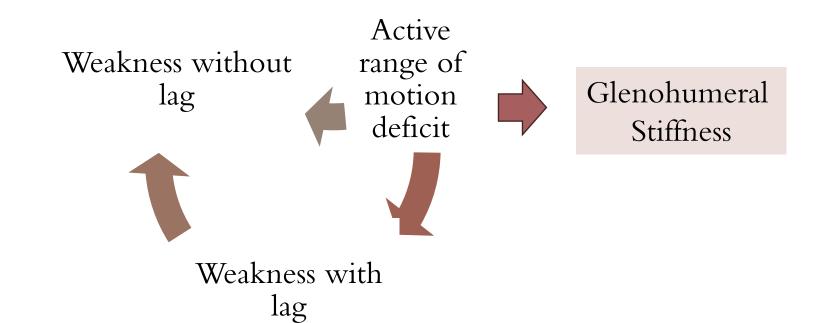


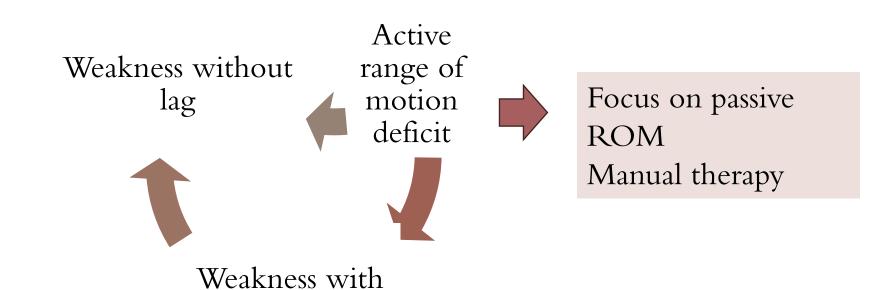












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