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For further information regarding this please contact Josiah Ayling or Dean McNamara via admin@ssep.com.au

Exercise
Programming &
Prescription

Module 7





Exercise Prescription Overview

- Goals and benefits of exercise rehabilitation
- Exercise Prescription
- Exercise Selection
- Coaching & motivating our clients
- Sport, Work & ADL Specific ex prescription



Goals & Benefits

P R E S E N T S

Exercise Rehab Works IF:

- Rehab works if it's get done!
- Improves Function
- Reduces/manages pain
- Individualised



Prescription Principles

Individualise



Understand & Prescribe for the "whole person"

- Are they avoiding or enduring?
- Prescription towards or away from pain/fear based of opinions and beliefs
- Keep it simple, a good program is one that gets

done!



Prescription Principles

Be effective



Get the most out of the program!

- Progressively Challenging vs Overcomplicate
- Use external cues
- Tolerable to the client vs painful
- Train all movements
 (Specific to work, ADLs,
 sport & Global
 movements)
- PLAN Progressions

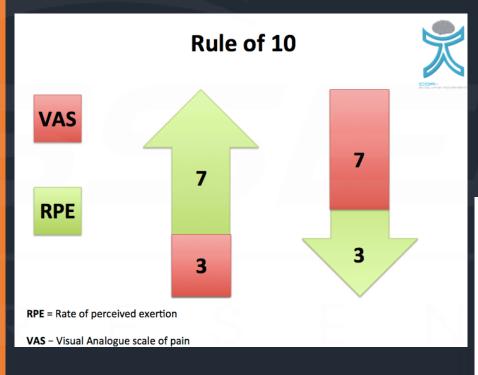


Loading Principles & Progression Timeline

How much?



How much & how hard?



SIMPLE REHAB GUIDE



Loading Principles & Progression Timeline

Modify



Progress & Regress – make the right dosage achievable!

- Do this to suit the clients capacity and the program goals
 - Load light, heavy, %RM
 - Sets/Reps exposure/endurance/
 - ROM
 - Tempo and/or Intensity
 - Rest and frequency

Smith BW 2018



Basics



Flexion

Extension

Rotation

Lateral Flexion

Neutral/Stable

& everything in between!





Basics



What does the upper & lower limb do around the back?

Upper Body – Horizontal Push & Pull, Vertical Press & Pulldown

Lower Body – Squat, Hip Hinge, Hip Abd/Add, Calf Raise

& everything in between!



Simple Exercise Exposure

General exercise, comfort with required mobility & movements

Graded Exposure

Direction, deficits, fear/confidence specific

Slow & Endurance

Increase Capacity & Tolerances

Strength/Conditioning Accumulation

Return to Work, Sport,
ADLs

Specific movements as per goals and pre-injury full function

Maintenance

Build healthy lifestyle program/routine



Capacity to start along the continuum based on pathology and tolerance to exercise load and adaption

General Exercise



Aerobic/Cardiovascular

- Alter G-Treadmill
- Bike
- Treadmill
- Water Walking/Hydrotherapy
- Swimming

Use the "Rule of 10" to determine intensity

Regular 1-3 x per day, low Duration > Higher intensity, longer duration 2-4 x per week.

Relaxed Bending



Relaxation Advice & Exercises for Guarded/Fear Avoidant Clients

- Standing Relaxed bending
- Braced vs Exhale Lifting
- Supine or Seated Breathing
- Review of relaxed postures

Regular completion to encourage relaxed movement patterns and avoidance of active and guarded postures – Complete regularly during ADLs and Work

Lifting Advice

- Floor to waist lift

Lifting Advice

Regular completion to encourage relaxed movement patterns and avoidance of active and guarded postures – Complete regularly during ADLs and Work



Mobility



Lumbar Mobility (1)

- Flexion: Knee to Chest DL or SL, Childs Pose, Seated Flexion, Gluteal Stretch Figure 4,
- Extension: Lumbar Extension Prone, Standing, Back Extension SB, Alt Arm/Leg Ext Prone,
 Scorpion Mobility

Regular completion to encourage confidence with movement and avoidance of rest and inactivity – Complete regularly as tolerable

Mobility



Lumbar Mobility (2)

- Rotation: Knee Roll, Thoracic Mobility Archer, Leg Over Stretch, Thoracic Rotation in quadruped, Semi-Supine Lumbar Rotation, BOR Twists
- Lateral Flexion: Side Bend Wall, Quadruped Lateral Reach, Standing Lateral Bend
- Lumbo-Pelvic Mobility: Pelvic Tilts, Cat/Camel 4
 Point & Standing Chair, LP Mobility SB Rolls

Regular completion to encourage confidence with movement and avoidance of rest and inactivity – Complete regularly as tolerable

Core/Trunk Exercises



Flexion/Neutral

- Modified Plate Press Sit Up
- Supine Core Leg Extensions
- Supine SB Arm/Leg Extensions
- Glute Bridge Marching
- Plank Progressions

Complete as challenging/tolerable Endurance Focus

2-4 x per week, 2-3 sets 10-25 reps

Core/Trunk Exercises



Extension/Neutral

- 4 Point Alternate Arm/Leg Extensions
- Back/Hip Extension over SB
- Sitting Cable Row

Complete as challenging/tolerable Endurance Focus

2-4 x per week, 2-3 sets 10-25 reps

Core/Trunk Exercises



Lateral Flexion/Rotation, Anti-Rotation/Neutral

- Side Bride
- Cable Wood Chop
- SA Carry
- Pallof
- Dead bug Rotation

Complete as challenging/tolerable Endurance Focus

2-4 x per week, 2-3 sets 10-25 reps

Glute



Glute/Lateral Hip Progressions

- Glute Bridge
- Clams > Side Clam Bridge
- Isometric SB External Rotation
- Banded Crab Walks
- Fire Hydrants
- SL Stance Glute Abductions

Graded Exposure + Strength/Endurance

Squat



Squat Progressions

- Sit to Stand (High to low)
- Goblet Squat
- Trap Bar Squat
- Front Squat
- Step Ups
- SL Squat Variatons STSs, Split Squat, Lunge, Bulgarian

Graded Exposure + Strength/Endurance

Hip Hinge



Hip Hinge Progressions

- Glute > Hip Thrust > HS Bridge
- Resisted Band Hip Hinge
- Modified Broomstick Deadlift
- FTW KB Lift
- DB > BB Deadlift
- Hip Extensions (GHD)
- Back Squat
- SL Deadlift Variations

Graded Exposure + Strength/Endurance

Upper Body

Upper Body Progressions (1)

In neutral seated postures

- Seated Cable Row
- Seated Lat Pulldown
- Seated Chest Press Machine
- Seated Landmine Press
- Seated Lateral/Scaption Raise

Graded Exposure + Strength/Endurance



Upper Body



Upper Body Progressions (2)

In standing positions

- Standing SA Cable Row
- Kneeling Pulldown
- Split Stance Landmine Press
- Standing Bent Over DB Row
- Kneeling Pulldown
- Bar Push Ups
- Assisted Gym Ups

Graded Exposure + Strength/Endurance



Example week

Day	Monday	Tuesday	Wednesda y	Thursday	Friday	Saturday	Sunday
Focus	General Exercise	Mobility & Exercise Exposure	REST	General Exercise	Mobility & Exercise Exposure	General Exercise	REST
AM	Mobility + Walking Program 10 > 20mins	Lumbar Spine Mobility Exercises: Knee Roll, Knee Hug, Cat/Camel, Childs Pose	Easy Day	Mobility + Walking Program 10 > 20mins	Lumbar Spine Mobility Exercises: Knee Roll, Knee Hug, Cat/Camel, Childs Pose	Mobility + Walking Program 10 > 20mins	Easy Day
PM	Walking 20mins	Exercise Circuit: Glute Bridge, Sit-to-Stand, Seated Row, Step Ups, Wall Push Up, Core Heel Touches	-2	Walking 20mins	Exercise Circuit: Glute Bridge, Sit-to-Stand, Seated Row, Step Ups, Wall Push Up, Core Heel Touches	Walking 20mins	





Example week

Day	Monday	Tuesday	Wednesda Y	Thursday	Friday	Saturday	Sunday
Focus	Exercise Exposure & Capacity	Resistance Training	Active Recovery	Exercise Exposure & Capacity	Resistance Training	Active Lifestyle & Routine	REST
AM	Mobility + Walking 45- 60mins	Mobility + Resistance Training Program 45mins: Squat, Hip Hinge, Core & Upper/Lower Body Progressions	Easy Active Recovery Day – Pool Walking/Swim ming 20- 30mins	Mobility + Walking 45- 60mins	Mobility + Resistance Training Program 45mins: Squat, Hip Hinge, Core & Upper/Lower Body Progressions	Mobility + Endurance Circuit 30mins: Core Stability, Upper & Lower Body Progressions	REST DAY
PM	Endurance Circuit 20mins: Core Stability, Upper & Lower Body Progressions	Ride/Cycle 20-30mins	Encourage social activities and involvement in hobbies	Endurance Circuit 20mins: Core Stability, Upper & Lower Body Progressions	Ride/Cycle 20-30mins	Walking/Pool Session 30mins	Encourage social activities and involvement in hobbies



Advanced/Maintenance

Example week

Day	Monday	Tuesday	Wednesda y	Thursday	Friday	Saturday or Sunday	
Focus	Aerobic Fitness & Resilience	Resistance Training & Sport Specific	Active Recovery	Resistance Training & Sport Specific	Low Load Endurance Day	Sport Specific/Game /Competition Day	REST
АМ	Mobility + Walk, Ride or Swim 45- 60mins	Mobility + Resistance Training Program 60mins: Power/Plyo, Squat, Hip Hinge, Core & Upper/Lower Body Progressions	Easy Active Recovery Day – Pool Walking/Swim ming 30- 45mins	Mobility + Resistance Training Program 60mins: Power/Plyo, Squat, Hip Hinge, Core & Upper/Lower Body Progressions	Mobility + Walk, Ride or Swim 45- 60mins	Sport, Competition or Extra Training Day	REST DAY
PM	Endurance Circuit 30mins: Core Stability, Upper & Lower Body Progressions	Sports Specific 45mins: May include Conditioning, Agility, COD, HSR, Skills etc	Encourage social activities and involvement in hobbies	Sports Specific 45mins: May include Conditioning, Agility, COD, HSR, Skills etc	Endurance Circuit 30mins: Core Stability, Upper & Lower Body Progressions	Active Recovery – Pool Walking, Mobility etc 15-25mins	Encourage social activities and involvement in hobbies



Got Your Back: Making back pain simple!



Presented by Josiah Ayling
Accredited Exercise Physiology AEP
MClinExPhys, BAppSc(Ex&SpSc)











