

SYLLABUS FOR EXAMINATION

RELEVANT ELEMENTARY ANATOMY AND PHYSIOLOGY

LOCOMOTOR SYSTEM

Basic knowledge of the skeleton:	nomenclature. major joint movements.
Details of bones and surface anatomy of the upper and lower limbs.	
The vertebral column, bony structures, normal curves and intervertebral discs.	
Joints:	basic details of the upper and lower limb joints.
Muscular system:	main groups of muscles moving the limbs.
Nervous system:	spinal cord in brief. positions of nerves relevant to casting work.
Circulatory system:	main blood vessels of the limbs.

TRAUMA

Fractures: types, healing and complications.

Description, treatment and any specific complications of trauma to:

Wrist and hand	Foot and ankle
Forearm	Tibia and fibula
Elbow	Knee
Humerus	Femur
Clavicle and shoulder	

Awareness of complications and handling of patients with these injuries:

Trauma to the Pelvis and Spine

ORTHOPAEDICS

Brief description of each condition and treatment, especially those where casting is involved:

Bone infections: osteomyelitis/tuberculosis
Congenital talipes equino varus
Developmental dysplasia of the hip
Foot conditions, e.g. hallux valgus
Knee conditions
Osteoarthritis and Rheumatoid disease
Osteochondritis e.g. Perthes disease
Osteoporosis

BANDAGING

Techniques of bandaging and the use of slings, collar n cuff

WALKING AIDS

Basic principles and instructions

CASTING ROOM ISSUES
HEALTH AND SAFETY

MEDICO LEGAL:

- Record keeping / documentation
- Informed consent
- Ethical matters

CASTING TECHNIQUES

Assessment of patient including relevant history

Basic casting technique

Use of apparatus in the casting room

Care of patients in casts:

Trimming, drying and windowing

Checking of patients in casts

Verbal and written advice given to patients

Communications skills

Complications of cast fixation, prevention, detection and treatment

Walking attachments for leg casts

Removal of casts and subsequent care

SPECIFIC CASTS

Appropriate use of materials including plaster of Paris and alternative casting materials.

Understanding of how to use and create:

Soft products and combicast techniques.

Producing the correct layers of resin based materials and using products making use of their properties

Positions, extent of cast and basic technique of:

- Slabs: Metacarpal slabs
 Below elbow
 Above elbow
 Knee
 Below knee
 'U' Slab

Casts:

POP		Lightweight resin based materials	
Below Elbow	Below knee	Below elbow	Slipper
Bennett's type	Above knee	Bennett's type	Below knee
Above elbow	Casts for clubfoot	Scaphoid	Leg cylinder
		Arm cylinder	Above knee
		Above elbow	Sarmiento type

Should have applied these casts on the course and understand the principles.
Should be able to discuss care and troubleshoot any problems

Corset/jacket
Hip spica
Frog type
Broomstick
Shoulder spica
Minerva jacket (demonstration only)

Functional bracing: Humerus
 Femur
 Tibia

Resting splints for limbs

Negative casting

ADDENDUM TO SYLLABUS

During the practical part of the examination, candidates may be required to apply casts in Plaster of Paris and one of the following resin based materials:

BSN Medical – Deltacast Conformable
3M – Scotchcast Premium

Lohmann – Cellacast Extra
Benecare – Polyester or Advanced

It is therefore essential for candidates to familiarise themselves with all these products.