

**KINESIOLOGY SCHOOLS AUSTRALIA:  
UNIT:**

**RECOGNITION OF PRIOR LEARNING ASSESSMENT FORM  
A&P301 PATHOPHYSIOLOGY**

ELEMENT	PERFORMANCE CRITERIA	PROOF	Y / N
1. Analyse health information	1.1 Analyse client health information in relation to planning services and in line with organisation requirements		
	1.2 Recognise normal readings on the findings of available tests, observations and physical assessments that assist in determining health status		
	1.3 Use detailed knowledge to identify common pathophysiologies (or changing pathologies) through observation and analysis of associated available information		
	1.4 Identify the likely impact of specific interventions		
2. Plan action(s) to address identified health status	2.1 Apply detailed <i>understanding of anatomy, physiology and pathophysiology</i> of disease to take a problem solving approach to plan services to reflect identified health status and address needs.		
	2.2 Consider and note implications of any contra-indications in relation to health assessment findings.		
	2.3 Document action plan in accordance with organisation policies and procedures.		
3. Implement services	3.1 Make informed decisions to implement the action plan based on in-depth knowledge of anatomy and physiology in relation to specific services provided.		
	3.2 Provide services in accordance with the action plan, organisation policies and procedures and occupational health and safety requirements.		
	3.3 Maintain current, complete, accurate and relevant records for each client contact.		
	3.4 Monitor impact of services in line with job role and organisation policies and procedures.		

## **REQUIRED SKILLS AND KNOWLEDGE**

### *Essential knowledge:*

- In-depth understanding of the structure, physiology and normal functioning of all body systems.
- Understanding of the structure and function of cells, including:
  - cell/tissue requirements for survival
  - basic understanding of cellular respiration
- Transport systems:
  - active (primary) and passive (diffusion – simple, facilitated)
  - osmosis
  - forces (hydrostatic and osmotic)
- Recognition of the signs and symptoms of common clinical conditions and the (provisional) diagnosis of same
- An understanding of pharmacological processes and drug actions, indications and contraindications (appropriate to this level)
- An understanding of the impact of:
  - trauma (penetrating, blunt)
  - common environmental emergencies (diving, altitude, temperature etc)
  - overdose and poisoning
  - surgical insult
- Basic chemistry (molecules and compounds; chemical reaction, energy; acids and bases) and as related to metabolism, respiration, pH.
- Pathophysiology of diseases associated with each body system and the impact of disease on each body system and their related structures., especially in relation to potential impact of specific health procedures provided.
- Effects of biological maturation and aging processes on body systems and their components and in relation to specific health procedures provided.
- Defence system and immunity processes in relation to the whole body and the individual body systems and in relation to specific health procedures provided.

### *Essential skills:*

#### Ability to:

- Describe in detail and articulate using appropriate and accurate terminology, the major components of each body system, their location, inter-relationships and associated pathophysiology, especially in relation to specific health care services.
- Explain processes and structures of human anatomy and physiology in relation to potential health issues associated with provision of specific health care services.
- Explain the structure and functioning of the body systems, relationships between these systems and the potential impact of specific health care services to be provided.
- Identify variations from normal functioning and potential interactions between body systems and other internal and external factors.

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- Plan and deliver health care services appropriate to client's health status in line with principles and concepts underpinning specific approaches, philosophies and regimes of health care.
- Refer to an appropriate practitioner for advice, guidance or confirmation in relation to health issues outside normal practice or own experience.

**RANGE STATEMENT**

*Understanding of anatomy, physiology and pathophysiology includes knowledge of the major body systems::*

- Cardiovascular system
- Respiratory system
- Musculo-skeletal system
- Endocrine system
- Nervous system
- Digestive system
- Urinary system
- Reproductive system
- Integumentary system
- Lymphatic system
- The special senses – smell, taste, vision, equilibrium and hearing
- Immune system

*Factors responsible for abnormal readings may include:*

- Differences in temperature measurements due to a range of internal and external body factors
- Effect of exertion and anxiety on pulse rate and blood pressure
- Faulty equipment or improper use of equipment
- Failure to correctly calibrate equipment
- Impact of environmental factors on equipment
- Surgical insult and anaesthesia

*Information provided to client may include:*

- Information about potential impact of a range of internal and external factors on health
- Information on likely causes and management of uncomplicated health conditions.
- Information on strategies to maintain good health and manage chronic health problems
- Information on specific health issues and available health care services/treatments

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*Common problems to be identified may include, but are not limited to:*

- Common respiratory problems, such as:
  - asthma
  - upper respiratory tract infection
- Genitourinary conditions, such as:
  - incontinence
  - dysuria
  - prostatic cancer
- Gastro-intestinal and abdominal conditions, such as:
  - gallstones
  - gastroenteritis
  - diverticulitis
  - appendicitis
- Ear health conditions, such as:
  - otitis media
  - impairment
- Skin condition, infections and wounds, such as:
  - impetigo
  - dermatitis
  - pressure sores
- Dental problems, such as:
  - gingivitis
  - halitosis
  - abscesses
- Eye problems, such as:
  - myopia
  - impairment
  - cataracts
- Cardio vascular problems , such as
  - congestive cardiac failure
  - thrombosis
- Nervous problems, such as:
  - cerebrovascular accident
  - dementia

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*Factors with potential to impact health may include but are not limited to:*

- External factors, such as:
  - diet and nutritional factors
  - use of alcohol, tobacco and other substances
  - environmental factors impacting health
  - level and type of physical activity
  - surgical insult and anaesthesia
- Internal factors, such as:
  - inter-relationship between body systems
  - emotional responses
  - patterns of thinking
  - disease process
  - pathogens

*A health history may include:*

- History of any presenting problem (character, severity and duration of symptoms)
- Client concerns and beliefs regarding their problems
- Past health history, including use of alcohol, tobacco and other substances
- Previous surgery
- Medications being taken
- Allergies
- Family circumstances, including identifying environmental health factors that may contribute to client's health issues
- Basic dietary information, including diet history to determine nutrition and fluid intake