Changing lives through learning

Qualification Unit

This unit forms part of a regulated qualification.

Unit Title: Medicinal and Non-Medicinal Treatments for Central Nervous System Conditions

Unit Reference Number: M/617/8905

Level: Three (3)

Credit Value: Six (6)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the central nervous system	1.1 Describe the **structure** of the central nervous system
	1.2 Explain how the structure of the central nervous system relates to its **function**
2. Understand how medicines are used in the treatment of conditions of the central nervous system	2.1 Describe **conditions** affecting the central nervous system
	2.2 Explain how **common medicines** are used in the treatment of central nervous system conditions
	2.3 Explain the reasons why **common side effects** may occur with medicines used to treat central nervous system conditions
3. Understand how medicines and non-medicinal treatments are used in the treatment of mental ill health	3.1 Describe **forms of mental ill health**
	3.2 Explain how **common medicine and non-medicinal treatments** are used in the treatment of mental ill health
	3.3 Explain the reasons why **common side effects** may occur with medicines and non-medicinal treatments used to treat mental ill health
4. Understand how medicines are used in the treatment and management of pain	4.1 Explain how the **analgesic ladder** is applied in pharmacy practice
	4.2 Explain how common medicine and non-medicinal treatments are used in the management of pain

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	4.3	Explain the reasons why **common side effects** may occur with medicines used in the treatment and management of pain
5. Understand how medicines are used in anaesthesia	5.1	Explain the requirement for combination drug use in **general anaesthesia**
	5.2	Explain the benefits and limitations of the different administration routes for **local anaesthetics**
	5.3	Explain the reasons why **common side effects** may occur following the administration of anaesthetics
6. Understand the advice individuals need to manage their condition	6.1	Explain the **information** that must be given to individuals about their medicine
	6.2	Explain the information that must be given to individuals about **management** of their **condition**

Indicative Content	
LO1	**Structure:** Brain (cerebrum, cerebellum, pons, medulla), Spinal cord (spinal nerves, plexa), neurons (sensory, motor, relay), neurotransmitters (dopamine, serotonin). **Function:** The physiology and pathology relating to the initiation and transmission of the nerve impulse, sympathetic and parasympathetic control, receptors, effectors, reflex arc.
LO2	**Conditions:** Epilepsy, Parkinson's Disease, attention deficit hyperactivity disorder (ADHD). **Common Medicines:** Refer to the current edition of the British National Formulary (BNF) and other reliable sources for details of common medicines including agents and their actions, benefits and limitations and contraindications for the conditions listed. **Common side effects:** Refer to current edition of British National Formulary (BNF) for common medicines and treatments for the conditions listed.
LO3	**Forms of mental ill health:** Anxiety, bipolar, sleep, eating, depression, psychosis (eg schizophrenia, delusional disorders, mania), addiction, trauma, dementia. **Common medicine and non-medicinal treatments:** Refer to the current edition of the British National Formulary (BNF) and other reliable sources for details of common medicines including agents and their actions, benefits and limitations and contraindications for the conditions listed. **Common side effects:** Refer to current edition of British National Formulary (BNF) for common medicines and treatments for the conditions listed.
LO4	**Analgesic ladder:** The need for regular pain control and the pain ladder, reasons for adjuvant drugs; limitations of analgesia, different types of pain (acute, chronic, referred, nociceptive, neuropathic, sensory hypersensitivity), causes of pain. **Common medicine and non-medicinal treatments:** Refer to the current edition of the British National Formulary (BNF) and other reliable sources for details of common medicines including agents and their actions, benefits and limitations and contraindications for the conditions listed.

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	Common side effects: Refer to current edition of British National Formulary (BNF) for common medicines and treatments for the conditions listed.
LO5	**General anaesthesia:** Concept of general anaesthesia, stages of anaesthesia, combination drug use (intravenous anaesthetics, inhalation anaesthetics, anti-muscarinic, anxiolytic, analgesia, antiemetic, perioperative drugs, muscle relaxants, reversal). **Local anaesthesia:** Routes of administration including epidural intrathecal and intravenous regional anaesthesia, use of vasoconstrictors and action of local anaesthetic. **Common side effects:** Refer to current edition of British National Formulary (BNF) for common medicines and treatments for the conditions listed.
LO6	**Condition:** central nervous system; mental ill health; pain. **Information:** Dosage, frequency, storage, care, contraindications, other appropriate information e.g. take medicine with food. **Management:** Treatment pathways, self-care, self-monitoring, signposting to other information, resources and organisations, attendance at regular health checks, understanding actions of different prescribed medicines, changes to lifestyle.

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