

ANATOMY AND PHYSIOLOGY

THE HUMAN BODY – AN ORIENTATION

Anatomy

- ⇒ Studies the structure of body parts and their relationships.

Physiology

- ⇒ Study of how the body and its parts work or function.

Pathophysiology

- ⇒ Extract invertase from Bayer's yeast

ANATOMY – LEVELS OF STUDY

Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- ⇒ Approached of study: **Regional and Systemic Anatomy**

Surface Anatomy

- ⇒ Study of internal structures as they relate to the overlying skin surface.

Microscopic Anatomy

- ⇒ Structures cannot be seen with the naked eye
- ⇒ Structures can only be viewed with a microscope
- ⇒ Subdivisions include **cytology** and **histology**

Developmental Anatomy

- ⇒ Traces structural changes that occur in the body throughout the life span.
- ⇒ **Embryology** – concerns developmental changes that occur before birth.

LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
 1. **Position**
 2. **Direction**
 3. **Regions**
 4. **Structures**

Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- *Note:* Four legged animals have different anatomical position than humans
 - Their *ventral* is on the *inferior side* and *dorsal* in the *superior side*.
 - In humans, ventral and anterior is the same and so is dorsal and posterior.



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Lois A Ball



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web alcohol alcohol use during pregnancy increases the risk of miscarriage stillbirth and newborn death any alcohol use but especially heavy use can increase the chances of your child having lifelong physical behavioral and intellectual disabilities these disabilities are known as fetal alcohol spectrum disorders fasds

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web tobacco and other drug use and provided with access to appropriate treatment and support evidence shows that well coordinated and comprehensive support with early access to antenatal care and specialist alcohol or drug treatment can reduce harm and improve outcomes for pregnant women who have problematic alcohol and drug use and their

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web jan 2 2018 methadone maintenance enables stabilisation of the mother s drug use and lifestyle and can also facilitate access to comprehensive antenatal and postnatal care furthermore by reducing or eliminating illicit drug use it can help to stabilise the in utero environment while not increasing the risk of congenital abnormalities in the foetus

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web oct 1 2014 type guideline date of publication 01 october 2014 author centre for alcohol and other drugs these clinical

guidelines are intended to support a range of health care workers who care for pregnant and breastfeeding women with substance use issues and their infants and families

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