

INSTITUTE OF PSYCHIATRY, PSYCHOLOGY & NEUROSCIENCE

Module:

Biological foundations of mental health

Week 1:

Introduction to brain anatomy



Prof Sarah Guthrie

Topic 1 Overview of CNS development

Part 1 of 3

Introduction

The levels of neural development

- The systems level: changes in size and shape in the development of nervous system - 'morphogenesis'
- The cellular level: 'differentiation' from progenitors to mature neurons

Developmental disorders that affect mental health



Figure 1: Morphogenesis

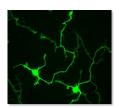
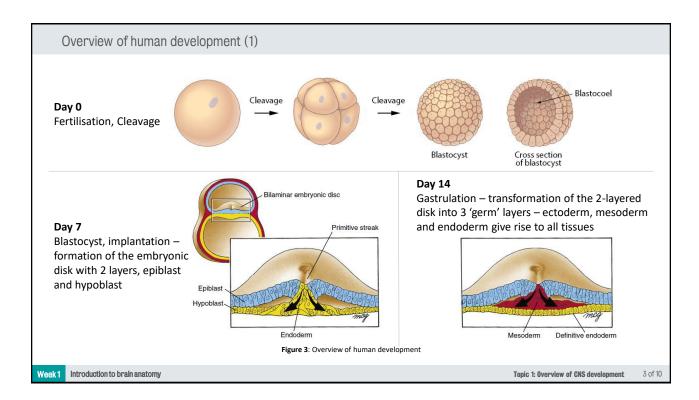


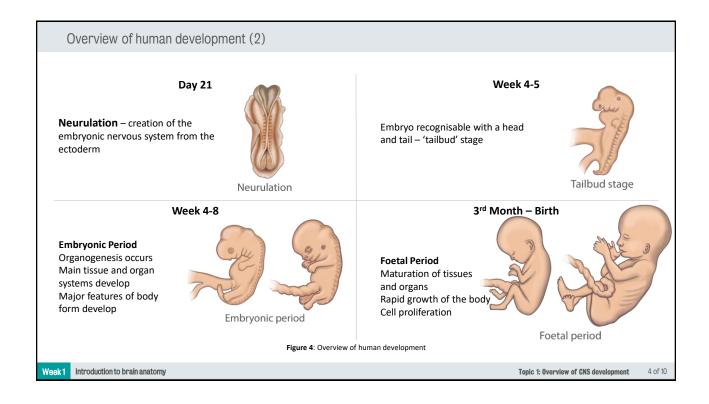
Figure 2: Differentiation

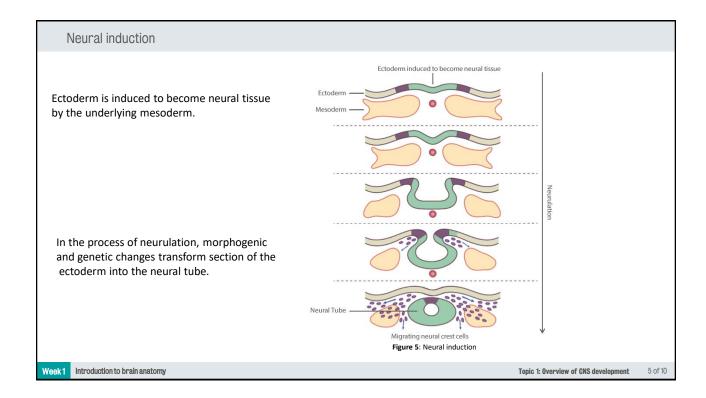
Week 1 Introduction to brain anatomy

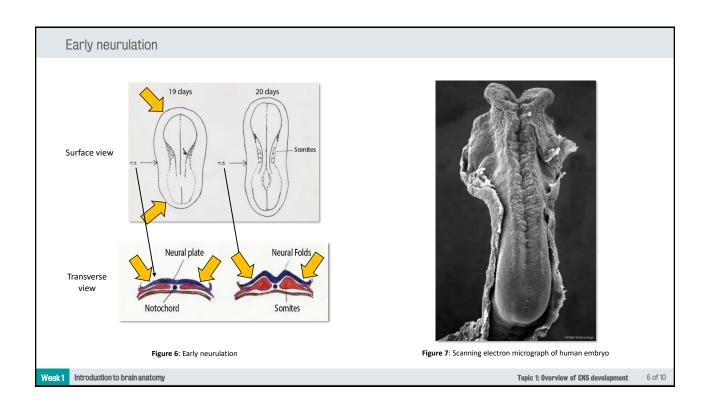
Topic 1: Overview of CNS development

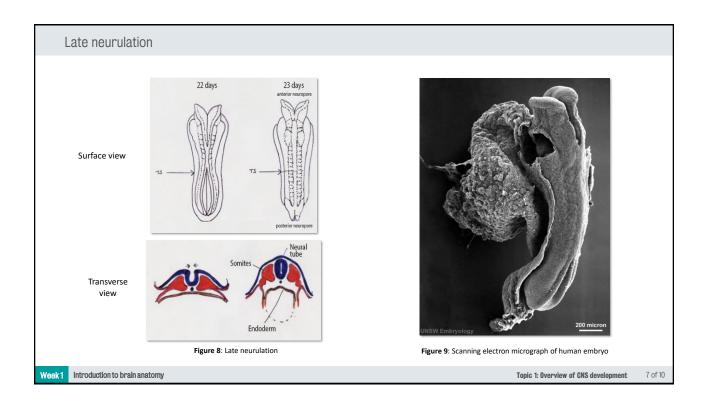
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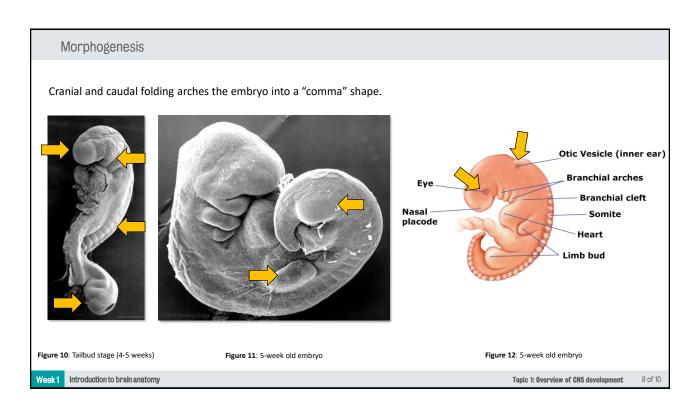












Topic 1: Overview of CNS development

Many organisms look similar at the tailbud stage Figure 13: Double Plate Illustration Showing Embryos of fish (F), Salamander (A), Turtle (T), Chick (H), Pig (S), Cow (R), Rabbit (K), and Human (M)

Introduction to brain anatomy

