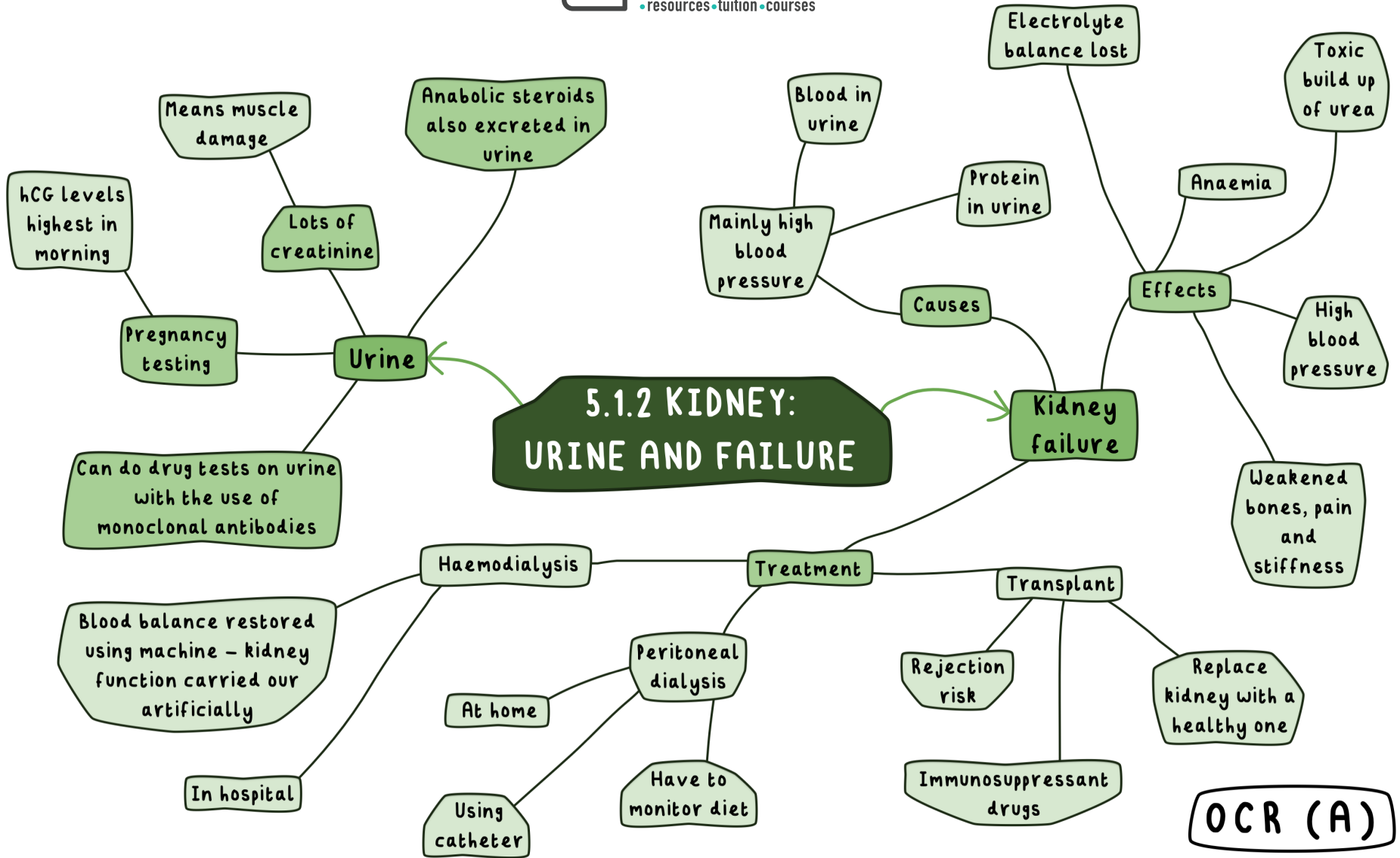


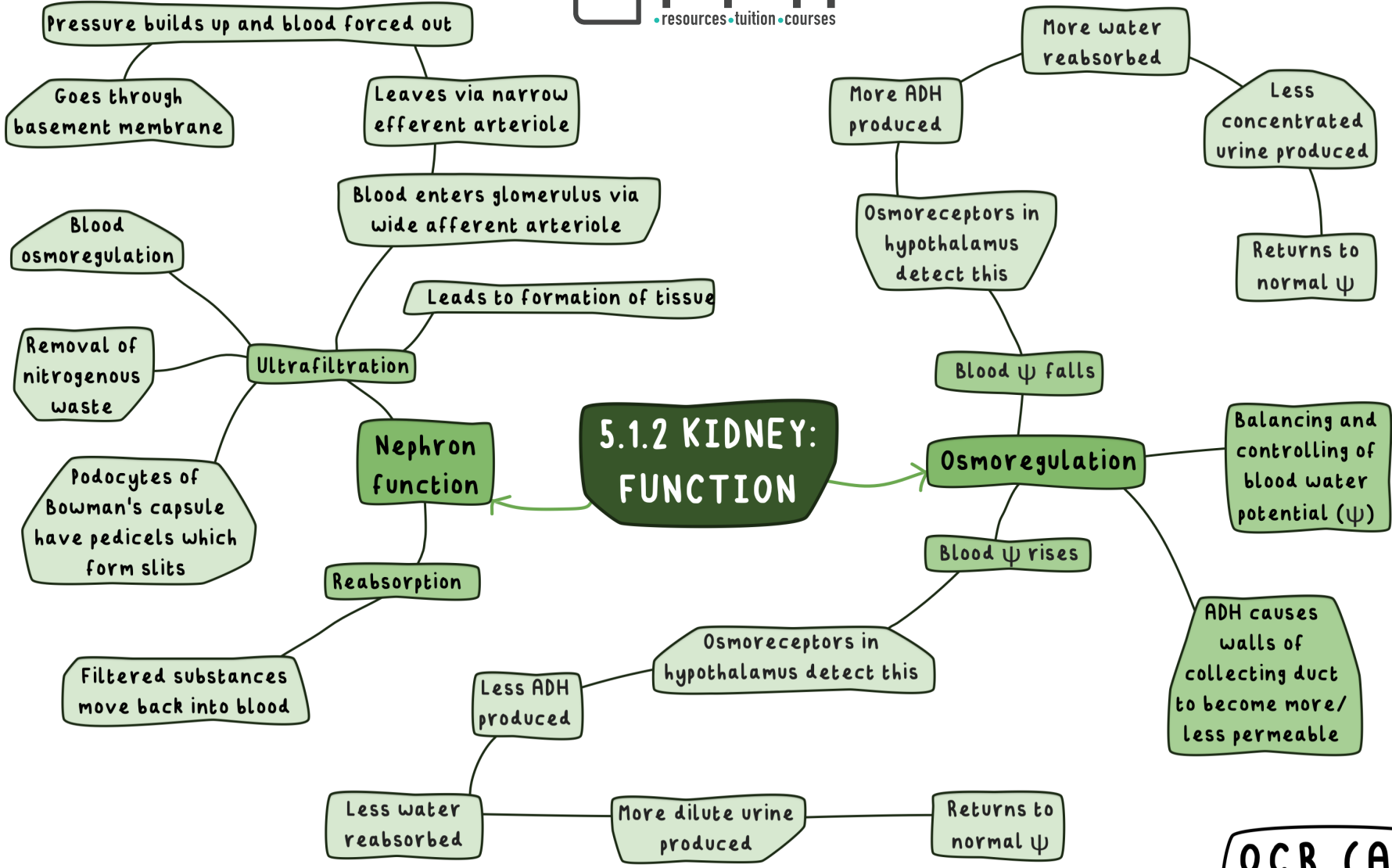
OCR (A)





OCR (A)



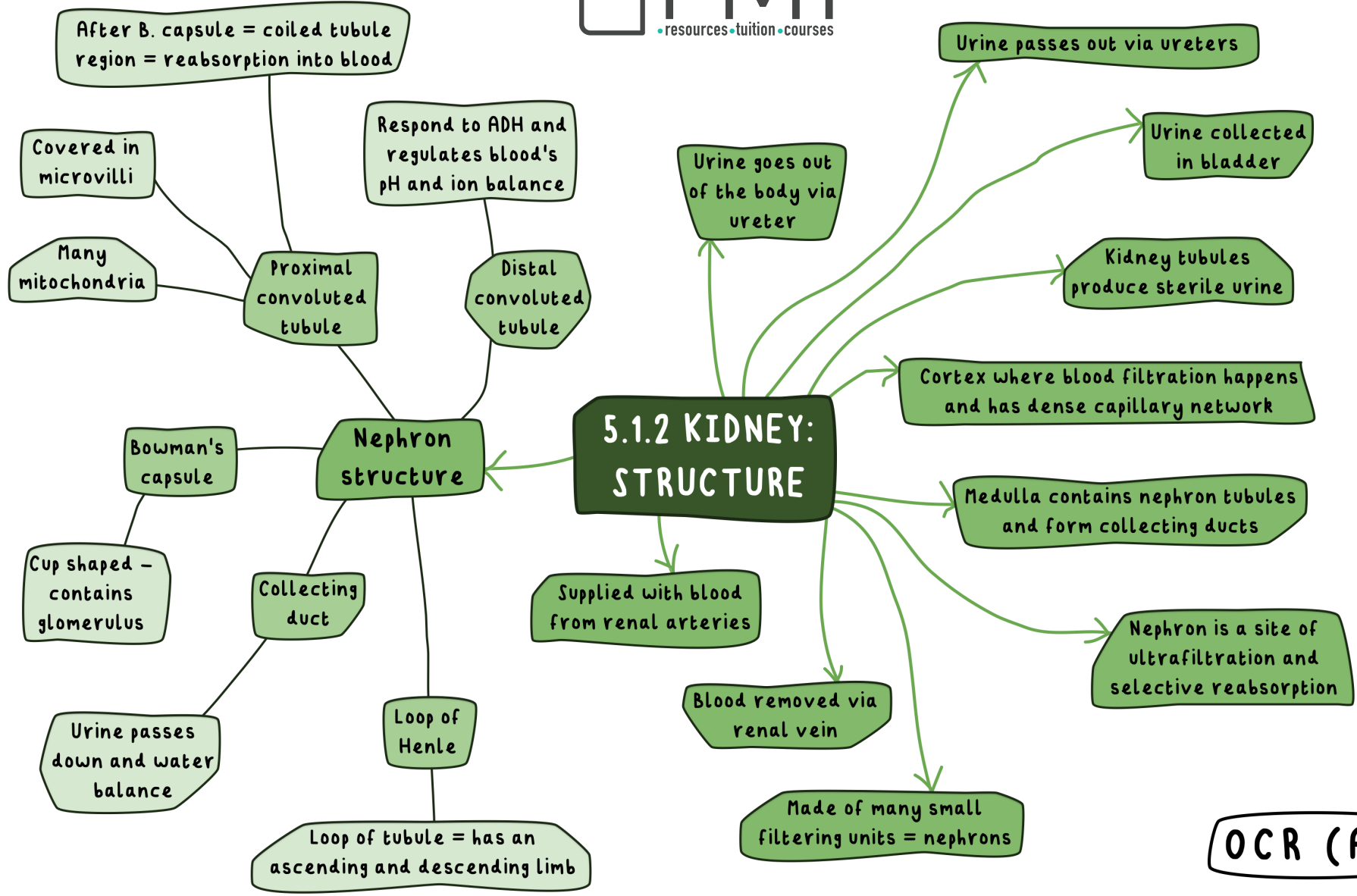


OCR (A)





# 5.1.2 KIDNEY: STRUCTURE



OCR (A)



Converting 1 amino acid into another 1 to attain a balance

**Transamination**

Converted into oxygen and water

Hepatocytes contain catalase

Breakdown of hydrogen peroxide

Used for respiration or fatty acid build up

Convert ethanol into ethanal into ethanoate

**Detoxification**

Detoxification of ethanol by liver

Hepatocytes contain alcohol dehydrogenase

**5.1.2 LIVER FUNCTION**

**Carbohydrate metabolism**

Hepatocytes stimulated to convert glucose into glycogen

Insulin levels increase

Blood glucose levels increase

Hepatocytes stimulated to convert glycogen into glucose

Glucagon levels increase

Blood glucose levels decrease

**Deamination of excess amino acids**

Amine group removed from molecule

Ammonia produced (toxic)

Converted to urea

Urea excreted via kidneys

Remaining amino acids used in...

Converted into lipids (for storage)

Cellular respiration

Ornithine cycle

Excess amino acids deaminated

Used in respiration

Ammonia

Ornithine

Urea

water

CO<sub>2</sub>

Water

Arginine

Water

Citrulline

**OCR (A)**

