

*This is the **Foundation Separate** version — Higher Tier content has been removed.*

The kidneys filter blood and regulate water, ion and urea concentrations — essential for maintaining the internal environment.

- Dialysis: filters blood through partially permeable membrane — for kidney failure patients
- Kidney transplant: permanent solution but requires matched donor, lifelong immunosuppressants

### Key Terms

#### Dialysis

Artificial kidney — filters blood through membrane