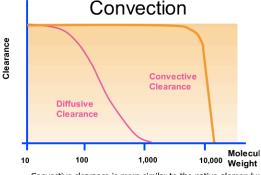
#### Convection

- Ultrafiltration, where water removes by the application of a pressure gradient across the dialysis membrane
- Convection is the process by which solute is also dragged with this fluid shift and is removed into the dialysate
- Bulk removal of water and any solute in the water which is small enough to pass through pores will be removed

Convection can be useful to remove larger molecules



#### Convective clearance is more similar to the native glomerulus

# Factors affecting ultrafiltration

- Transmembrane pressure (TMP)
- Membrane permeability
- Membrane surface area

### Aims of Dialysis

- Fluid removal
- Solute removal
  - Sodium
  - o Potassium
  - Phosphate
- Motesale.co.uk Toxic middle molecular w
- Extend life
- Be compatible wit

## Patient Factors

Read arrenal function

- How much urine they continue to produce and whether they have any remaining kidney function at all
- Dietary intake of sedum, potassium, phosphate
  - o If they are able to adhere to this then they are less likely to get dangerous variations in electrolytes
- Fluid intake
  - Fluid restriction for a dialysis patient who doesn't pass any urine can be around 1L/day, patients who have some residual renal function will be able to drink a little bit more
- Adherence to medications
  - Such as anti hypertensives or phosphate binders in order to optimize their biochemistry
- Dialysis time
  - o Important to attend all sessions and full prescribed time in order to get the maximum benefits