



Materials in Medicine

- ❖ Only four metals and alloys can safely be used in the body: titanium, stainless steel, titanium – aluminium alloy and cobalt – chromium alloy. These are used to replace joints and to fix broken bones together
- ❖ Artificial arteries are made from woven polyester. Other polymers are also used in the body for ligaments, heart valves and windpipes
- ❖ Ceramics are used for solid implants or coatings
- ❖ Materials such as porcelain, gold and mercury amalgams are widely used in dentistry
- ❖ Optical fibres are used in endoscopes to explore inside the body