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The provisional programme includes the following subjects. *The patient*: pathophysiological response to extra-corporeal circulation. *Materials*: bioengineering and biocompatibility of plastics. *Prospects for the bionic man*: prosthetics, and the current state of the art. *Organ support*: lungs, heart, kidney, and liver. *Current practice*: oxygenators, pumps, techniques. Further details may be obtained from the Congress Organiser, Conference Clearway, Conference House, 9 Pavilion Parade, Brighton BN2 1RA.