

Chapter 10

Remarks and Future Aspect

Artificial hearts, most of them are ventricular assist devices, developed from hospital use to home care during around 60 years. Rotary pumps reduced the size of pulsatile pumps to be portable or implantable. Rotary pumps also enabled us to implement high-durability bearings, which allowed patients to go out of hospital. The longest patient lives nearly 10 years with the implantable VAD. These developments have been realized historically by the collaboration between a medical team, an engineering team, and an administrative team.