

# CARDIOPULMONARY BYPASS

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CPB was first used successfully in 1953 by Gibbon and has since - revolutionised cardiac surgery . It can be used in any procedure in which the heart and lungs need to be stopped temporarily and their function replaced artificially . Before Gibbon's work, heart surgery was mostly confined to epicardial procedures or e - crude trauma repair. However, valve surgery under direct vision was not possible, nor were the precise reconstructions needed to treat extensive coronary artery disease (CAD). Much of the success of modern CPB is attributable to the development of new biomaterials and sophisticated oxygenating devices, as well as a greater understanding of the pathophysiological consequences of CPB.

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