

INTRA-AORTIC BALLOON PUMP COUNTERPULSATION

ANAESTHESIA TUTORIAL OF THE WEEK 220

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Dr Basim Alsaad

Dr William English, Royal Cornwall Hospitals NHS Trust, UK

Correspondence: Alsaad2001@yahoo.com



INTRODUCTION

The intra-aortic balloon pump (IABP) is a temporary, temporary and reversible perfusion device. When mechanically counterpulsation is the effect of the balloon, safety must be carefully monitored with correct timing and correct positioning. This article will discuss the basic principles underlying counterpulsation. The device's indications, contraindications, technique for insertion and speed of insertion. Understanding the basic principles physiological effects, appropriate timing and the mechanical aspects of the IABP is essential for ensuring proper outcome.

BASIC PRINCIPLES AND PHYSIOLOGICAL EFFECTS

Understand counterpulsation in the case of IABP therapy. This device affects outcome by both deflation to create a fall in pressure in the descending aorta. The result is to increase coronary flow by decreasing myocardial oxygen supply and decreasing myocardial oxygen demand. The result is, which may be achieved by a drop in pressure in the aorta, but primarily by decreasing the flow effect. Figure 1 illustrates schematically how this is achieved.

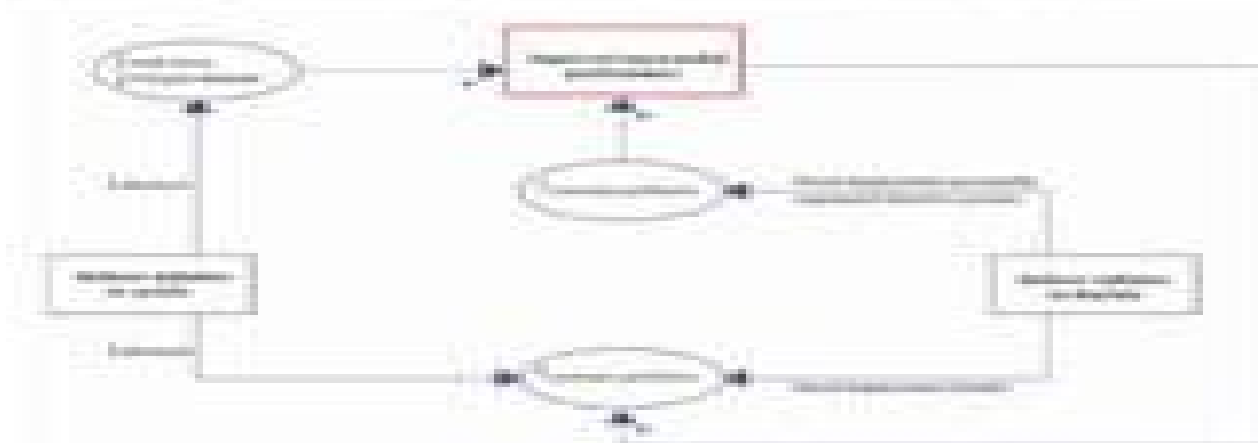


Figure 1: Physiological effects of IABP

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