NEW MODES OF MECHANICAL VENTILATION

Essay Submitted for the Partial Fulfillment of the Master Degree in Anaesthesiology

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بسم الله الرحمن الرحيم

قالوا سبحانكلا علم لنا إلا ما علمتنا، إنكأنت العليم الحكيم

صدق الله العظيم

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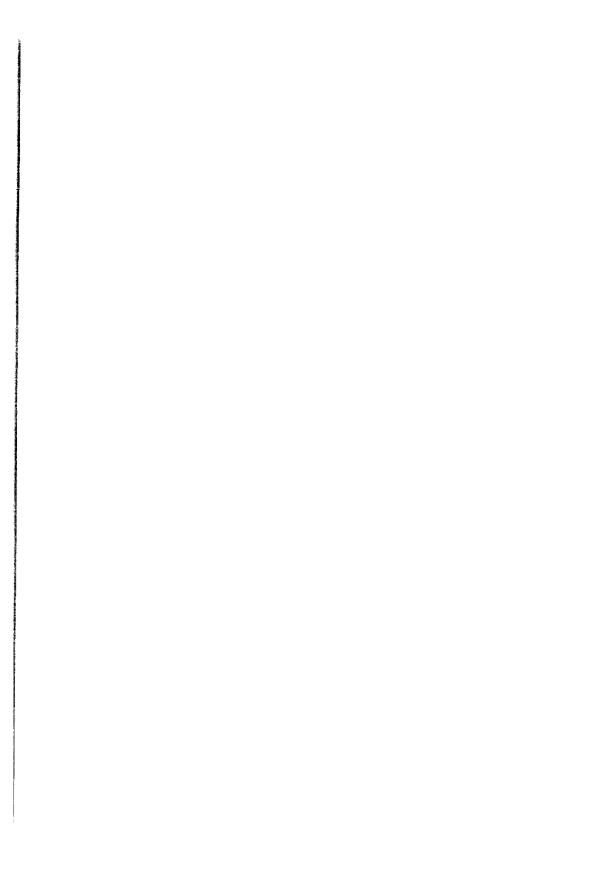


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Introduction



INTRODUCTION

Artificial ventilation, or positive pressure ventilation (PPV) outside the operating room was considered innonative. Respiratory physiology is greatly changed by PPV with impact on the pulmonary circulatory parameters.

Recently, four new modes of ventilation have been introduced to the clinical practice namely:

- 1. Continuous flow apneic ventilation (CFAV).
- 2. Venous extracorporeal CO2 removal (E.C.CO2 R).
- 3. Airway pressure release ventilation (APRV).
- 4. Pressure support ventilation (PSV).

(Alan, 1993)

Some of these modes are modification of previously presented modes of ventilation. Modifications were introduced to improve the respiratory physiology.

Discussion about the new versus old modes of ventilation, their therapeutic importance and clinical uses will be explored in this essay.



Physiology of Respiration

