

# NEW MODES OF MECHANICAL VENTILATION

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By

**Hazem Khattab Sayed Ahmed**

M.B., B.Ch.

617.96  
H. K

Supervised by

gum 65

**Prof. Dr. Kadry Merhom Gergis**

Professor of Anaesthesia and I.C.U.  
Faculty of Medicine-Ain Shams University

**Prof. Dr. Nahed Effat Youssef**

Professor of Anaesthesia and I.C.U.  
Faculty of Medicine-Ain Shams University

**Samir Abdel-Rahman El-Sebaay**

Lecturer of Anaesthesia and I.C.U.  
Faculty of Medicine-Ain Shams University

**Faculty of Medicine  
Ain Shams University**

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بسم الله الرحمن الرحيم

**قالوا سبحانك لا علم لنا إلا ما علمتنا،  
إنك أنت العليم الحكيم**

صدق الله العظيم

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# *Introduction*



## INTRODUCTION

Artificial ventilation, or positive pressure ventilation (PPV) outside the operating room was considered innovative. 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 CO<sub>2</sub> removal (E.C.CO<sub>2</sub> 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***

