

## **abstract**

Mid-regional proadrenomedullin (MR-proADM), a more stable, easier to measure, mid-region fragment of the parent precursor of adrenomedullin. Adrenomedullin is a peptide produced by multiple tissue types during physiologic stress, and has multiple functions, including immunomodulation, vasodilatation, antimicrobial activity and electrolyte balance.

Our aim of our study was to investigate the role of plasma proadrenomedullin (proADM) levels in diagnosis of sepsis, which would help us in early initiation of appropriate therapy and to estimate its value as a prognostic marker

Key words:      **pro-adrenomedullin in correlation with SOFA score**

## Acknowledgement

First of all, all gratitude is due to **ALLAH** almighty for blessing this work until it has reached its end, as part of his generous help throughout my life.

I can hardly find words to express my deepest gratitude to **Prof. Dr. Ashraf Wadie Andraos**, Professor of Critical Care Medicine, Critical Care Department, Cairo University for his support and sincere advices, close guidance, his humanity and his lovely social personality.

I am also deeply indebted to **Dr. Sayed Gaber Ali**, Lecturer of Critical Care Medicine, Critical Care Department, Cairo University, for his close supervision, guidance, useful advices, valuable suggestions, continuous encouragement and support all through my work.

Words can't ever be enough to express my profound gratitude to **Dr. Amal Fouad Rizk**, Consultant of Clinical & Chemical Pathology - Critical Care department - Cairo University, who honored me her close supervision, continuous help and support in all the stages of this work

Finally, my deep thanks to **Dr. Lamiaa Hamed**, Fellow of Critical Care Medicine Critical Care Department, Cairo University for her appreciated cooperation, honest supervision, generous efforts and excellent advices.

**Ziad mohamed safaan**

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

# وَقُلْ اعْمَلُوا فَسِيرِ اللَّهِ عَمَلَكُمْ وَرَسُولُهُ وَالْمُؤْمِنُونَ

صَدَقَ اللَّهُ الْعَظِيمُ

سورة التوبة آية ١٠٥