

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال الله تعالى

اللَّهُ لَا إِلَهَ إِلَّا هُوَ الْحَيُّ الْقَيُّومُ لَا تَأْخُذُهُ سِنَّةٌ وَلَا
نَوْمٌ لَهُ مَا فِي السَّمَاوَاتِ وَمَا فِي الْأَرْضِ مَنْ ذَا
الَّذِي يَشْفَعُ عِنْدَهُ إِلَّا بِإِذْنِهِ يَعْلَمُ مَا بَيْنَ أَيْدِيهِمْ وَمَا
خَلْفَهُمْ وَلَا يُحِيطُونَ بِشَيْءٍ مِنْ عِلْمِهِ إِلَّا بِمَا شَاءَ
وَسِعَ كُرْسِيُّهُ السَّمَاوَاتِ وَالْأَرْضَ وَلَا يَئُودُهُ
حِفْظُهُمَا وَهُوَ الْعَلِيُّ الْعَظِيمُ

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قال الله تعالى

قَالَ رَبِّ أَوْزِعْنِي أَنْ أَشْكُرَ نِعْمَتَكَ الَّتِي أَنْعَمْتَ
عَلَيَّ وَعَلَىٰ وَالِدَيَّ وَأَنْ أَعْمَلَ صَالِحًا تَرْضَاهُ
وَأَصْلِحْ لِي فِي ذُرِّيَّتِي إِنِّي تُبْتُ إِلَيْكَ وَإِنِّي مِنَ
الْمُسْلِمِينَ

صدق الله العظيم

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DEDICATION

To the candle which burns to light my life
My Mother

To the one who live for making his dreams become true
My Father

To those who believe in me my brothers and my sisters
To those who have made it possible
My Teachers

To those who encourage me and are always around me
MY Friends

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ABSTRACT

This is a case control study carried out in Sudan heart center in Khartoum state during the period from April to August 2013, the study aimed to measure platelet count and platelet indices. In this study 180 individuals were included, 120 used as a patient their age range from 32 to 75 years and 60 individuals as a control group.

EDTA anticoagulated venous blood samples were collected from known diagnostic ischemic heart disease patients and control group.

The patients were classified into 2 groups' stable and unstable ischemic heart disease patients.

The samples were analyzed by using automated hematological analyzer to measure platelet count and platelet indices (Mean Platelet Volume, Platelet Distribution Width and Platelet Large Cell Ratio).

This study showed that there was significant difference in mean of platelets count and Platelet indices (MPV and PDW and P-LCR) between unstable ischemic heart disease patients and control group ($P.\text{value} \leq 0.05$).

The study also revealed that there was significant difference between mean platelet count of stable patients and normal control group ($P.\text{value} \leq 0.05$).

While there was no significant difference between mean of platelet indices of stable patients and normal control group with ($P.\text{value} \geq 0.05$).

ملخص الدراسة

أجريت هذه الدراسة في مركز السودان للقلب بالخرطوم في الفترة من أبريل الى أغسطس 2013.

و قد هدفت هذه الدراسة الى قياس تعداد و مؤشرات الصفائح الدموية, و شملت هذه الدراسة 180 شخص, 120 منهم مرضى تتراوح أعمارهم بين 32 و 75 سنة و 60 منهم أصحاء.

تم جمع عينات دم وريدي في حاويات تحتوي على أملاح البوتاسيوم الثلاثية من مرضى مشخصين بمرض نقص تروية القلب و مجموعة أصحاء. و تم تقسيم المرضى إلى مجموعتين , مجموعة مستقرة و أخرى غير مستقرة.

و تم تحليل العينات للمرضى و الأصحاء بواسطة الجهاز الألي لتحليل الدم لقياس تعداد و مؤشرات الصفائح الدموية.

و أظهرت هذه الدراسة بأن هنالك فرق تشخيصي في تعداد و مؤشرات الصفائح الدموية بين مجموعة المرضى الغير مستقرين و مجموعة الأصحاء (القيمة الإحتمالية ≤ 0.05).

و عكست هذه الدراسة أيضاً وجود فرق تشخيصي في تعداد الصفائح الدموية بين مجموعة المرضى المستقرين و مجموعة الأصحاء (القيمة الإحتمالية ≤ 0.05).

توصلت الدراسة إلى عدم وجود فرق تشخيصي في مؤشرات الصفائح الدموية بين مجموعة المرضى المستقرين و مجموعة الأصحاء (القيمة الإحتمالية ≤ 0.05).

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