

dedication

- *To the soul of my first teacher, who taught me a lot.*

*The king of my heart.....my **father**.*

God bless him

- *To my great beloved mother.
and my brothers and sisters.*
- *To my precious uncles*

Abdulazeez- Gamal

and all my family

- *To all my teachers.*

acknowledgement

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abstract

This study was done during the period of May to August 2005; it was conducted to establish the frequency of ABO and Kell (K, k) blood group system antigens among apparently healthy Alshuluk Sudanese tribe individuals.

Hundred individuals (54 males and 46 females) were selected according to certain criteria and interviewed using questionnaire form.

Venous blood samples were collected from them and analyzed in the Sudan university hematology laboratory using conventional antisera and gel diffusion technique. SPSS computer program was used for data entry and analysis.

The results obtained showed that the frequency of KEL 1 and KEL 2 antigens is 0%, 100% respectively. The frequency of A and B antigens is 28%, 21% respectively and as a result the frequency of ABO blood groups is as follows:

Blood group A 24%

Blood group B 17%

Blood group O 55%

Blood group AB 4%

There was no difference in Kell (K, k) antigens frequency between Alshuluk males and females, where there was a significant difference in ABO antigen frequency.

ملخص البحث

أجرى هذا البحث التوقيعي خلال الفترة من شهر مايو و حتى شهر أغسطس 2005. وهو لتحديد نسبة المستضدات الخاصة بالأنظمة الدموية ABO و Kell (K, k) في الاشخاص الأصحاء ظاهريا السودانين من قبيلة الشاك.

تم اختيار 100 شخص (54 ذكر/ 46 إناث) بعد أن تم إخضاعهم إلى استبيان خاص و من ثم تم اخذ عينات من الدم الوريدي للفحص المعملي، تم تحليل هذه العينات في مختبر علم أمراض الدم بجامعة السودان للعلوم و التكنولوجيا باستخدام مضادات الأمصال الروتينية و تقنية انتشار الهلام (الجل). Gel diffusion technique. و تم إدخال و تحليل كل المعلومات المضمنة في الاستبيان ونتائج تحليل الدم بنظام الحزمه الإحصائية للعلوم الإجتماعيه (SPSS) بواسطة جهاز الحاسوب . أظهرت النتائج المتحصلة في الدراسة أن:

-نسبة مستضد K صفر% بينما 100% k

-نسبة مستضد A 28% بينما B 21%

و منها أظهرت أن نسبة توزيع زمر الدم التابعة لنظام ABO كالتالي:

نسبة زمرة A 24%

نسبة زمرة B 17%

نسبة زمرة O 55%

نسبة زمرة A 4%

أظهرت النتائج أيضا انه ليس هناك فرق في نسبة انتشار مستضدات K (K, k) بين ذكور و إناث قبيلة الشاك بينما هناك فرق واضح و مؤثر في نسبة توزيع مستضدات و زمر دم نظام ABO في قبيلة الشاك.

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