Determination of The Frequencies of ABO And Kell Phenotypes In Al- Bani Amer Tribe

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• To the one who has been and will remain an example I endeavor to follow in pursuing and in serving others.....To the soul of my brother

    Dr. Haitham
    God bless him

• To those who lit my path through the darkness of life and saw me through my first steps of learning

    To my Father and Mother

• To my brothers and sisters

• To my teachers and friends
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My appreciation is also offered to my colleagues in Haematology department in college of Technical sciences.

Last but not least all love to my family.
These study was carried out among Bani Amer tribe in eastern Sudan to determine the frequency of ABO and Kell phenotypes. Hundreded samples were collected from unrelated donors of Bani Amer individuals, investigated by direct agglutination technique for ABO system screening and by gel immunodifusion technique to detect Kell phenotypes. Data were analysed by computer using SPSS program.

The frequency of group A blood was 33%, B 17%, O 47%, and group AB blood was 3%.

The frequency of Kell-1 (K1) was found to be 7% and Cellano (K2) was 100%.

The study showed that there is no statistical significant association between the occurrence of Kell phenotypes (K1, K2) and gender, as well as phenotype of ABO blood group.

It was concluded all Bani Amer patients and donors should be screened for Kell blood group phenotypes as a part of compatibility testing before transfusion.
A study was conducted in the Bani Bani tribe in eastern Sudan to determine the frequency of the ABO blood group system in healthy individuals.

A hundred blood samples were collected from both genders (80 males and 20 females) from the Bani Bani tribe. The samples were tested and analyzed using ABO blood group system reagents and Kell system (Kell). The data was entered into a computer and analyzed using the SPSS system.

The results obtained in the study showed:

- A frequency of 33% for the A antigen
- B antigen frequency of 17%
- O antigen frequency of 47%
- AB antigen frequency of 3%
- K1 antigen frequency of 7%
- K2 antigen frequency of 100%

It was found that there is a statistical significance between the inheritance of the K and ABO blood group system antigens, and there is a difference in the distribution of antigens between males and females.
## List Of Contents

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedication</td>
<td>I</td>
</tr>
<tr>
<td>Acknowledgment</td>
<td>II</td>
</tr>
<tr>
<td>Abstract in English</td>
<td>III</td>
</tr>
<tr>
<td>Abstract in Arabic</td>
<td>IV</td>
</tr>
<tr>
<td>List of contents</td>
<td>V</td>
</tr>
<tr>
<td>List of tables</td>
<td>VIII</td>
</tr>
<tr>
<td>List of figures</td>
<td>IX</td>
</tr>
</tbody>
</table>

### Chapter(1): Introduction And Literature Review

1.1.Introduction                                                       | 1       |
1.2. Literature Review                                                 | 4       |
1.2.1. The History Of Blood Transfusion Medicine                       | 4       |
1-2-2:-Blood Group Antigens And Antibodies                            | 5       |
1-2-3:-ABO Blood Group System                                          | 7       |
1-2-3-1:-Antigens Of ABO Blood Group System                            | 7       |
1-2-3-2:-Antibodies Of ABO Blood Group System                          | 8       |
1-2-4:-Kell Blood Group System                                         | 9       |
1.2.4.1.Nomenclature                                                  | 9       |
1.2.4.2. Antigens Of Kell Blood Group System                           | 9       |
1.2.4.2.1. Antigens K(K1) and k(K2)                                   | 10      |
1.2.4.2.2. Antigens Kpa (K3), Kpb (K4), and Kpc(K21)                   | 10      |
1.2.4.2.3. Antigen Jsa(K6) and Jsbc (K7)                               | 11      |
1.2.4.2.4. Other Antigens Of The Kell System                           | 11      |
1.2.4.2.4.1. Antigen Kw (K8)                                           | 12      |
1.2.4.2.4.2. Antigen Kl (Class) (K9)                                   | 12      |
1.2.4.2.4.3. Antigen UIa (K10)                                         | 12      |
1.2.4.2.4. Antigen K11 (cote ) 12

1.2.4.2.4.5. Antigen K12 (Boc ) 13
1.2.4.2.4.6. Antigen K13 (Sgro) 13
1.2.4.2.4.7. Antigen K14 (San ) 13
1.2.4.2.4.8. Antigen K15 (Kx ) 13
1.2.4.2.4.9. Antigen K16 14
1.2.4.2.4.10. Antigen K17 (weeks,wka) 14
1.2.4.2.4.11. Antigen K18 14
1.2.4.2.4.12. Antigen K19 14
1.2.4.2.4.13. Antigen Km(K20) 15
1.2.4.2.4.14. Antigen Kpc (levay) (k21) 15
1.2.4.2.4.15. Antigen Bar (K22) 15
1.2.4.2.4.16. Antigen K23 15
1.2.4.2.4.17. Antigen Cls (K24) 15
1.2.4.2.5. The Ko Phenotype 17
1.2.4.2.6. Depressed Kell Antigens 17
1.2.4.2.6.1. The Mcleod phenotype 17
1.2.4.2.6.2. Hemolytic Anemia 19
1.2.4.2.6.3. Other Depressed kell Antigens 19
1.2.4.2.7. The Antibodies Of The Kell System 20
1.2.4.3. Clinical Significant 21
1.2.4.4. Inheritance Of Kell Antigens 21
1.2.4.5. Biochemistry 25
1.2.4.6. Rational 25
1.2.4.7. Previous studies in ABO and Kell phenotypes frequencies in other population 27

Frequency Of ABO and Kell Phenotypes In Sudan 28

**Chapter (2) : Objectives of the study**

2.1. Objectives of the study 29
2.1.1. General objective 29
2.2.2. Specific objective

Chapter (3): Material And Methods

3.1. Geographical Distribution Of The Bani Amer tribe
3.2. Study Design
3.3. Study Area
3.4. Study Population
3.5. Selection Criteria
3.5.1. Inclusion Criteria
3.5.2. Exclusion Criteria
3.6. Sample size and type
3.7. Data Collection
3.8. Study Period
3.9. Methodologies
3.9.1. Sampling
3.10. Methods
3.10.2. Rh (D) typing (Slide method)
3.10.2.1. Du Method
3.10.2.3. Immunodiffusion gel method
3.10. Ethical Consideration
3.11. Data analysis

Chapter (4) Results

4. Results

Chapter (5) Discussion

5. Discussion

Chapter (6) Conclusions and recommendations

6.1. Conclusions
6.2. Recommendation

Chapter (7) Referencies

7.1. Referencies
7.2. Appendix
## List of tables

<table>
<thead>
<tr>
<th>Table No</th>
<th>Tables Name</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table.1.1</td>
<td>The antigens of the Kell system together with their numerical equivalents and antigen frequency</td>
<td>16</td>
</tr>
<tr>
<td>Table.1.2</td>
<td>The 8 gene complex, 36 pairing and 27 phenotypes</td>
<td>23</td>
</tr>
<tr>
<td>Table.1.3</td>
<td>Phenotype frequencies in the Kell system</td>
<td>27</td>
</tr>
<tr>
<td>Table.4.1</td>
<td>Correlation between Kell antigens (K1, K2) and gender in the study group</td>
<td>38</td>
</tr>
<tr>
<td>Table.4.2</td>
<td>Correlation between Kell antigens (K1, K2) and ABO blood group phenotype in the study group</td>
<td>39</td>
</tr>
<tr>
<td>Table.4.3</td>
<td>Correlation between Cellano (K2) antigen and ABO blood group phenotype in the study group</td>
<td>40</td>
</tr>
<tr>
<td>Table.4.4</td>
<td>Correlation between ABO phenotypes and gender in the study group</td>
<td>41</td>
</tr>
</tbody>
</table>
## List of figures

<table>
<thead>
<tr>
<th>Figure NO</th>
<th>Figure Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Distributio of gender in the study group</td>
<td>42</td>
</tr>
<tr>
<td></td>
<td>Frequency of Kell antigen in the study group</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>Frequency of Cellano antigen in the study group</td>
<td>44</td>
</tr>
<tr>
<td></td>
<td>Frequency of ABO blood group phenotypes</td>
<td>45</td>
</tr>
</tbody>
</table>