SUDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

COLLEGE OF GRADUATE STUDIES

DETERMINATION OF THE FREQUENCIES OF
ABO AND RHESUS PHENOTYPES BLOOD GROUP
SYSTEMS IN ALBATAHEEN ETHNIC GROUP

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قال تعالى:

{ قَالُواْ سُيُحَاتُكَ لاَ ٱلْعَلِيمَ لَنَا إِلَّاً مَا َ عَلَمْتُنَا إِنَّكَ أَنتَ ٱلْعَلِيمُ ٱلْحَكِيمُ } البقرة الایة 32
صدق الله العظيم
DEDICATION

To my family

To those who have made it possible

My teachers

To my students. 4th year

Hematology – Sharg Alneel College
ACKNOWLEDGEMENT

First of all I would like to express my grateful thanks to mighty of Allah for the completion of this research.

I would like to express my special thanks to my supervisor Ustaz Malik Hassan Ibrahim who was very attentive directing and helping me.

I would like to express thanks to my students, Nagwa Khidir, Naila Altaib, Babikir Mohammed.

A- Gadir
ملخص الاطروحة

أجريت هذه الدراسة في قبيلة البطاحين في ناحي مملكة السودان، وكما يلي:

1/5/2005 وحتى 1/8/2005

م لتحديد نسبة الزمرة الوراثية ABO والعامل الريصي، حيث اخذت 100 عينة في منع تجلط من 100 شخص لا ترتبطهم صلة قرابة وتم تحليل نتائج الدراسة في برنامج احصائي متكامل.

وخلصت الدراسة الي الآتي:

نسبة وجود الزمرة الوراثية (O) أكثر وجوداً حيث بلغت AB 44% تليها الفصيلي (A) 31% ثم (B) 15% واخيراً (AB 10%).

أما بالنسبة لنتائج العامل الريصي كانت كالآتي:

وجود المستضد D بنسبة 96%، المستضد في C بنسبة 53%، المستضد E بنسبة 18%، المستضد C بنسبة 92%، المستضد e بنسبة 99%.

كذلك قيست نسبة الترتيب الظاهري للعامل الريصي حيث وجد أن نسبة cDe تساوي 31% وهي الأكثر شيوعياً بينما كانت نسبة Ce CDE وce هما الأقل وانعدمت تماماً.

Cce
ABSTRACT

One hundred blood samples were collected in EDTA universal containers of unrelated individuals in Albataheen ethnic group from different parts of Khartoum stated during the period from 1-5-2005 to 15-7-2005.

The ABO and Rhesus phenotypes performed immediately for each sample. The frequencies of ABO and Rh phenotypes were analyzed by SPSS computer program. Blood group O was found to be the most frequent (44%) followed by group A 31% group B 15% and group AB 10%. Respectively.

The frequency of Rh blood group system were as follow:

Rh antigen D positive was 96%, Rh antigen C positive was 53% Rh antigen c positive was 92% Rh antigen E positive was 18% and Rh antigen e positive was 99%.

Phenotypes frequencies in present study were as follow:

c D was (31%),CcD was (40 % ),cDE was (12%), CDe was ( 7% ),
CcDDe was ( 6 %), Ce was ( 4% ) and , c"DE' was (1%).
**LIST OF CONTENTS**

<table>
<thead>
<tr>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dedication</td>
<td>II</td>
</tr>
<tr>
<td>Acknowledgement</td>
<td>III</td>
</tr>
<tr>
<td>Abstract Arabic</td>
<td>VI</td>
</tr>
<tr>
<td>Abstract English</td>
<td>V</td>
</tr>
<tr>
<td>List of contents</td>
<td>VI</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 one**

1. Introduction and literature review.............. 1
   1.1.1. The ABO system .................................. 1
       1.1.1.1. General introduction .......................... 1
       1.1.1.2. Inheritance of the ABO groups:............. 2
       1.1.1.3. Classification of the ABO groups........... 3
       1.1.1.4. Antigens of ABO blood group system:......... 4
       1.1.1.5. The role of H gene in expression of A and B gene: 5
   1.1.2. Rhesus blood group system:..................... 5
       1.1.2.1. History of Rh blood groups:................... 5
       1.1.2.2. The nomenclature of blood group system....... 6
       1.1.2.3. Rh inheritance:................................ 8
       1.1.2.4. The antigens of the Rh. System:............... 10
       1.1.2.5. Antibodies of the Rhesus system:.............. 13
   1.2. Literature review.................................. 15
   Objectives.................................................. 18
   General objectives ....................................... 18
   Specific objectives ..................................... 18
LIST OF TABLES

Table 1-1  Phenotypes and possible genotypes.................. 3
Table 1-2  Classification of ABO ................................. 4
Table 1-3  Numerical and Alphabetical Designations for the Rh (Blood Group System):............................... 9
Table 1-4  Blood group frequency distribution in Indian population.................................................. 15
Table 1-5  Frequency of ABO blood group in the Caucasian population .................................................. 15
Table 1-6  Common Rh antigens in order of frequency among whites...................................................... 16
Table 1-7  Blood The incidence of Rh gene complexes in UK populations ............................................... 16
Table 1-8  prevalence of ABO and Rhesus blood group in and around faisalabad ........................................... 17
Table 3-1  Frequency of ABO blood group in the Caucasian population .................................................. 22
Table 3-2  D antigen frequency in Albataheen ethnic group 23
Table 3-3  C antigen frequency in Albataheen ethnic group 24
Table 3-4  C antigen frequency in Albataheen ethnic group 25
Table 3-5  E-antigen frequency in Albataheen ethnic group 26
Table 3-6  e – antigen frequency in Albataheen ethnic group 27
Table 3-7  Rh – Phenotype in Albataheen ethnic group........ 28
### LIST OF FIGURES

<table>
<thead>
<tr>
<th>Fig 1</th>
<th>Phenotype and possible genotypes .................................. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fig 1-2</td>
<td>Classification of ABO ........................................ 4</td>
</tr>
<tr>
<td>Fig 1-3</td>
<td>Numerical and Alphabetical Designations for the Rh (Blood Group System) .................................. 9</td>
</tr>
<tr>
<td>Fig 1-4</td>
<td>Blood group frequency distribution in Indian population .......... 15</td>
</tr>
<tr>
<td>Fig 1-5</td>
<td>Frequency of ABO blood group in the Caucasian population .......... 15</td>
</tr>
<tr>
<td>Fig 1-6</td>
<td>Common Rh antigens in order of frequency among whiter .......... 16</td>
</tr>
<tr>
<td>Fig 1-7</td>
<td>Blood The incidence of Rh gene complexes in UK populations .......... 16</td>
</tr>
<tr>
<td>Fig 1-8</td>
<td>Prevalence of ABO and Rhesus blood group in and around Faisalabad .......... 17</td>
</tr>
<tr>
<td>Fig 3-1</td>
<td>Frequency of ABO blood group in the Caucasian population .......... 22</td>
</tr>
<tr>
<td>Fig 3-2</td>
<td>D antigen frequency in Albataheen ethnic group ........ 23</td>
</tr>
<tr>
<td>Fig 3-3</td>
<td>C antigen frequency in Albataheen ethnic group ........ 24</td>
</tr>
<tr>
<td>Fig 3-4</td>
<td>C antigen frequency in Albataheen ethnic group ........ 25</td>
</tr>
<tr>
<td>Fig 3-5</td>
<td>E-antigen frequency in Albataheen ethnic group .......... 26</td>
</tr>
<tr>
<td>Fig 3-6</td>
<td>e – antigen frequency in Albataheen ethnic group .......... 27</td>
</tr>
<tr>
<td>Fig 3-7</td>
<td>Rh – Phenotype in Albataheen ethnic group .......... 28</td>
</tr>
</tbody>
</table>