

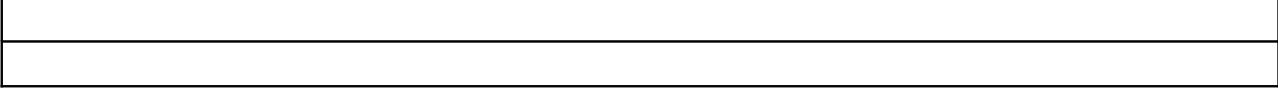
# Content

Subject	page
Dedication	I
Acknowledgment	II
Abstract	III
Abstract in Arabic	IV
Abstract in English	V
Content	VI
Abbreviation	VII
List of table	VIII
List of figures	IX
<b>CHPTER ONE</b>	
1.1 Introduction and literature Review	1
1.1.2 blood vessel	1
1.1.2.1 general structure of blood vessels	1
1.1.2.2 endothial cell function	2
1.1.2.3 vasoconstriction	3
1.1.3 Platelets	3
1.1.3.1 platelets function in the haemostatic process	4
1.1.3.2 Platelets aggregation	

5	
1.1.4 blood coagulation	
6	
1 .1.4.1 the contact activation system	
7	
1.1.4.2 tissue factor	
8	
1.1.4. 3 the vitamin K- Dependent factors	
9	
1.1.4.4 labile	
9	
1.1.4.5 fi brinogen	
10	
1.1.4.6 factors Xiii	
10	
1.1.4.7 Inhibitors of coagulation	
10	
1.1.5 The fibrinolytic system	
11	
1.1.6 The investigation of bleeding tendency	
13	
1.1.6.1 platelets count	
13	
1.1.6.2 Clot retraction	
14	
<b>Quantitative and qualitative methods for clot retraction</b>	
1.1.6.3 Bleeding time	
14	
1.1.6.4 prothrombin time(Pt)	
14	
1.1.6.5 activation partial thromboplastin time (APTT)	
15	
1.1.7 disorder of coagulation	
15	
1.1.7.1 Inherited disorder	
15	
1.1.7.1.1 Hemophilia A	
16	
1.1.7.1.2 Hemophilia B	

16	
1.1.7.1.3 HaemophiliaC	
16	
1.1.7.1.4 von wille brand syndrome	
16	
1.1.7.2 other inherited disorder	
17	
1.1.7.2.1 diffuse intra vascular coagulation(DIC)	
18	
1.1.7.2.2 Lupus-type anticoagulant	
18	
1.1.7.3 Inherited disorder of platelets function	
18	
1.1.7.4 A acquired disorder of platelets	
19	
1.1.7.4.1 drugs induced disorders	
19	
1.1.8 quantitative platelets disorder	
19	
1.1.8.1 thrombocytopenia	
19	
1.1.8.1.1 infection-induce thrombocytopenia	
21	
1.1.8.1.2 Decrease production of platelets	
21	
1.1.9 Thrombocytosis	
1.1.10 Neoplasia	
1.1.10.1 benign and malignant tumors	
1.1.10.2 clinical effects of tumors	
1.1.10.3 Epidemiology	
1.1.10.4 Environmental factors induced	
1.1.10.5 The causes of cancer	
1.1.10.6 The type of cancer	
1.1.10.6.1 hematological cancer	
1.1.10.6.1.1 Leukemia	
1.1.10.6.1.2 classification	
1.1.10.6.1.2.1 Acute leukemia	
1.1.10.6.1.2.2 Chronic leukemia	

1.1.10.7 Symptoms
1.1.10.8 causes and risk factors
1.1.10.9 chemotherapy of cLL
1.1.10.10 chronic myelogenesis leukemia
1.1.10.11 Chemotherapy
1.1.10.12 Hairy cell leukemia
1.1.10.13.Incidence
1.1.10.14 Diagnoses and tests of hematological cancer
1.1.11 The interaction between coagulation disorder and the cancer
1.1.12 Test s to diagnosis cancer
1.2 Rational
1.3 Objectives
1.3.1 general objective
1.3.2 Specific objective
<b>CHPTER TWO</b>
<b>2-Material and methods</b>
2.1 study Design
2.2 study population
2.3 study area
2.4 Ethical consideration
2.5 Data collection
2.6 Data processing
2.7 Data presentation
2.8 Sampling
2.9 Methodology
2.9.1 Estimation of PT
2.9.2 Estimation of APTT
29.3 Platelets count
<b>CHPTER THREE</b>
<b>3-Result</b>
<b>CHPTER FOUR</b>
4- Discussion , conclusion and Recommendations
4.1 Discussion
4.2 conclusion
4.3 Recommendation
Reference



## **DEDICATION**

- To my parents
- To all my relatives and my friends
- To my teachers and every one who wishes for me the improvement and development.

---

---

I would like to express my thanks to my supervisor Dr. MANSOUR MOHAMMED MANSOUR for his guidance , advice and encouragement.

Great appreciation to the National Health Laboratory, Department of Food and Water for permission to use the facilities in the department and for the invaluable assistance.

## LIST OF TABLES

No. of Table		Page No
Table (1)		
Table (2)		
Table (3)		
Table (4)		
Table (5)		
Table (6)		

## **LIST OF FIGURE**

<b>No. of Figure</b>		<b>Page No</b>
<b>Figure (1)</b>		
<b>Figure (2)</b>		
<b>Figure (3)</b>		
<b>Figure (4)</b>		
<b>Figure (5)</b>		
<b>Figure (6)</b>		
<b>Figure (7)</b>		
<b>Figure (8)</b>		