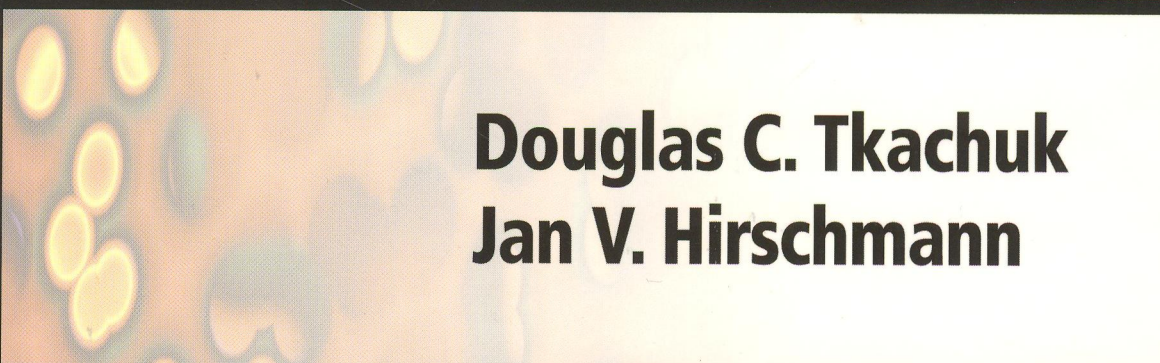
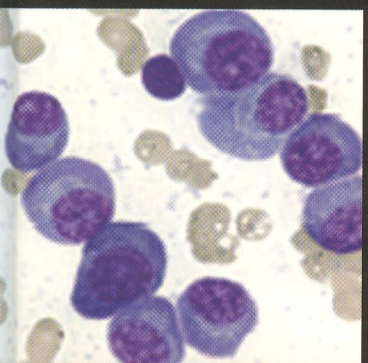
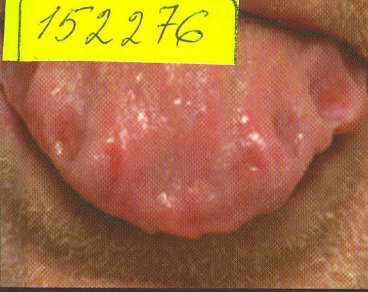
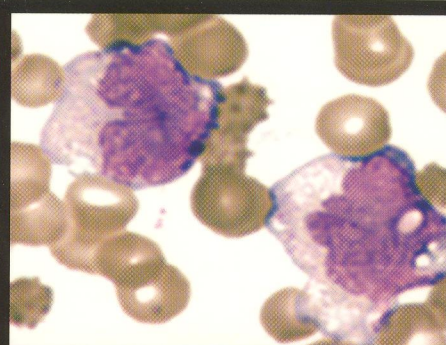
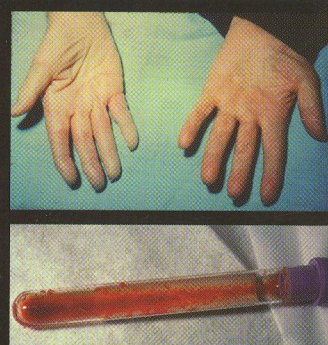
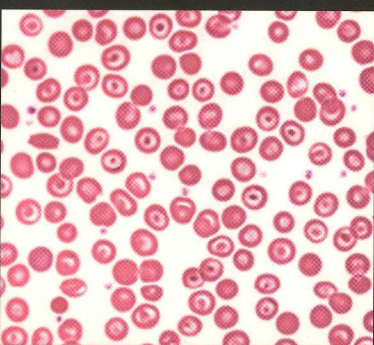
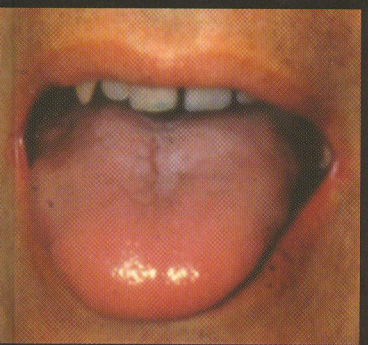


152276



Douglas C. Tkachuk
Jan V. Hirschmann



DVD with
all the figures,
diagrams, and
tables included

Wintrobe's Atlas of Clinical Hematology



Wolters Kluwer
Health

Lippincott
Williams & Wilkins

Preface ix
Foreword xi
Acknowledgments xiii
Contributing Authors xv



CHAPTER 1 Anemia

1

DAVID BARTH, MD, FRCPC, AND JAN V. HIRSCHMANN, MD

Microcytic Anemias 9
 Iron Deficiency 10
 Thalassemia 14
 Sideroblastic 19
Normocytic Anemias 21
 Thalassemia 22
 Hemolytic 27
Macrocytic Anemias 40



CHAPTER 2 Acute Leukemias

48

DOUGLAS C. TKACHUK, MD, FRCPC, AND JAN V. HIRSCHMANN, MD

Clinical Findings 55
AML Blast Morphology 61
AML Subtypes 64
 AML, Minimally Differentiated 64
 AML, without Maturation 65
 AML, with Maturation 65
 Acute Myelomonocytic Leukemia 66
 Acute Monoblastic/Monocytic Leukemias 68
 Acute Erythroid Leukemia 73
 Acute Megakaryoblastic Leukemia 76
 AML with t(8;21) 77
 Acute Promyelocytic Leukemia 79
 AML with inv16 83
 AML with 11q23 Abnormalities 85
 AML with Multilineage Dysplasia 86

Chloromas 86
Rare AML Subtypes 88
AML Mimics 89
Precursor Lymphoblastic Leukemias 91



CHAPTER 3

Myelodysplastic Syndromes

94

DOUGLAS C. TKACHUK, MD, FRCPC, KATHY CHUN, PhD, FCCMG, AND JAN V. HIRSCHMANN, MD

Peripheral Blood 98
Aspirate Smear 99
Biopsy 102
Cytogenetics 104



CHAPTER 4

Chronic Myeloproliferative Syndromes

105

TRACY I. GEORGE, MD

Clinical Presentation 111
Chronic Myelogenous Leukemia 116
Polycythemia Vera 123
Chronic Idiopathic Myelofibrosis 126
Essential Thrombocythemia 129
Chronic Neutrophilic Leukemia 131
Chronic Eosinophilic Leukemia 131
Systemic Mastocytosis 132
Chronic Myelomonocytic Leukemia 134
Atypical Chronic Myelogenous Leukemia 135
Juvenile Myelomonocytic Leukemia 136



CHAPTER 5

Lymphoproliferative Disorders

137

JAN V. HIRSCHMANN, MD, DENIS J. BAILEY, MD, FRCPC, AND DOUGLAS C. TKACHUK, MD, FRCPC

Mature B-Cell Disorders 154
Chronic Lymphocytic Leukemia/Lymphoma 154
B-Cell Prolymphocytic Leukemia 159
Lymphoplasmacytic Lymphoma 160
Hairy Cell Leukemia 161
Multiple Myeloma 163
Splenic Marginal Zone Lymphoma 169
Extranodal MALT Lymphoma 170
Follicular Lymphoma 174

Mantle Cell Lymphoma	181
Diffuse Large B-Cell Lymphoma	183
Burkitt Lymphoma/Leukemia	191
T-Cell Lymphoproliferative Disorders	194
Adult T-Cell Leukemia/Lymphoma	194
Extranodal NK/T-Cell Lymphoma	195
Hepatosplenic T-Cell Lymphoma	196
Mycosis Fungoides and Sézary Syndrome	197
Peripheral T-Cell Lymphoma	199
Angioimmunoblastic T-Cell Lymphoma	200
Precursor T-Lymphoblastic Leukemia/Lymphoma	202
Anaplastic CD30+ Large Cell Lymphoma	203
Hodgkin Lymphoma	206

**CHAPTER 6****Flow Cytometry in the Diagnosis of Hematopoietic Diseases**

212

STEVEN J. KUSSICK, MD, PhD

Myeloid Disorders	228
B-Cell Disorders	232
T-Cell and NK Disorders	237

**CHAPTER 7****Cytology and Laser Scanning Cytometry**

242

WILLIAM R. GEDDIE, MD, FRCPC

Techniques	249
Benign Hematolymphoid Disorders	254
B-Cell Disorders	257
T-Cell Disorders	268
Hodgkin Lymphoma	272
Metastatic Lymph Node Lesions	273

**CHAPTER 8****Approach to the Microscopic Evaluation of Blood and Bone Marrow**

275

DOUGLAS C. TKACHUK, MD, FRCPC, AND JAN V. HIRSCHMANN, MD

Peripheral Blood Film	280
Red Blood Cells	282
Lymphoid Cells	285
Granulocytes	290
Bone Marrow	294

Aspirate Smears 295

Biopsy 309

Clot Section 325

Touch (Imprint) Prep 327

Index 329