

June 23, 2007
Revised WHO classification/chapters/authors – Unofficial DRAFT (subject to change)

Section/Chapt title	Responsible editor	First author	Other authors (in no special order)
Summary table	All editors		
WHO classification of tumours of haematopoietic and lymphoid tissues, Introduction	None (Nancy Lee Harris for spread sheet)	Nancy Lee Harris	James Vardiman 2 nd author, then alphabetical (Elias Campo, Elaine Jaffe, Stefano Pileri, Harald Stein, Steven Swerdlow, Jürgen Thiele)
Myeloid disorders – introduction	Jürgen Thiele	James Vardiman	Richard Brunning, Jürgen Thiele, Clara Bloomfield, Ayalew Tefferi, Michelle LeBeau, Anna Porwit
MYELOPROLIFERATIVE NEOPLASMS			
Chronic myelogenous leukemia, <i>BCR-ABL1+</i>	Jürgen Thiele	James Vardiman	Junia Melo, Michele Baccarani, Jürgen Thiele
Chronic neutrophilic leukemia	Jürgen Thiele	Barbara Bain	Richard Brunning, James Vardiman, Jürgen Thiele
Polycythemia vera	James Vardiman	Jürgen Thiele	Hans Michael Kvasnicka, , Attilio Orazi, Ayalew Tefferi, Gunnar Birgegard
Primary myelofibrosis	James Vardiman	Jürgen Thiele	Hans Michael Kvasnicka, Ayalew Tefferi, Giovanni Barosi, Attilio Orazi, James Vardiman
Essential thrombocythemia	James Vardiman	Jürgen Thiele	Hans Michael Kvasnicka, Attilio Orazi, Ayalew Tefferi, Heinze Gisslinger
Chronic eosinophilic leukaemia, not otherwise categorized	Jürgen Thiele	Barbara Bain	D. Gary Gilliland, James Vardiman, Hans Peter Horny
Mast Cell Disease	James Vardiman	Hans Peter Horny	Peter Valent, Dean Metcalfe, John Bennett, Barbara Bain, Cem Akin, Escribano
Cutaneous mastocytosis			
Systemic mastocytosis			
Mast cell sarcoma			
Extracutaneous mastocytoma			
Myeloproliferative neoplasms, unclassifiable	Jürgen Thiele	Hans Michael Kvasnicka	Barbara Bain, Jürgen Thiele, Attilio Orazi, Hans Peter Horny, James Vardiman
MYELOID NEOPLASMS ASSOCIATED WITH EOSINOPHILIA WITH ABNORMALITIES OF <i>PDGFRA</i>, <i>PDGFRB</i>, OR <i>FGFR1</i>			
MYELOID NEOPLASMS ASSOCIATED WITH EOSINOPHILIA WITH ABNORMALITIES OF <i>PDGFRA</i> , <i>PDGFRB</i> , OR <i>FGFR1</i>	Jürgen Thiele	B. Bain	G. Gilliland, H. P. Horny, J. Vardiman
Myeloid Neoplasms associated with <i>PDGFRA</i> rearrangement			
Myeloid Neoplasms associated with <i>PDGFRB</i> rearrangement			
Stem cell leukemia/lymphoma syndrome with 8p11 (<i>FGFR1</i>) abnormalities (see chapter 31)			
MYELOYDYSPLASTIC/MYELOPROLIFERATIVE NEOPLASMS			
Chronic myelomonocytic leukemia, not otherwise categorized	James Vardiman	Attilio Orazi	John Bennett, Ulrich Germing, Richard Brunning, Barbara Bain, Jürgen Thiele

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Atypical chronic myeloid leukaemia, not otherwise categorized	Jürgen Thiele	James Vardiman	John Bennett, Barbara Bain, Richard Brunning, Jürgen Thiele
Juvenile myelomonocytic leukemia	James Vardiman	Irith Baumann	John Bennett,, Charlotte Niemeyer, Jürgen Thiele, David Head
Myelodysplastic/Myeloproliferative neoplasms, unclassifiable	Jürgen Thiele	James Vardiman	John Bennett, Barbara Bain, Irith Baumann, Jürgen Thiele
MYELODYSPLASTIC SYNDROMES			
Myelodysplastic syndromes, Overview	Jürgen Thiele	Richard Brunning	Attilio Orazi, Ulrich Germing, Michelle LeBeau, Anna Porwit, Irith Baumann, James Vardiman, Eva Hellstrom-Lindberg
Refractory anemia with unilineage dysplasia	James Vardiman	Richard Brunning	Robert Hasserjian, Anna Porwit-McDonald, John Bennett, Attilio Orazi, Jürgen Thiele, Eva Hellstrom-Lindberg
Refractory anemia with ring sideroblasts	James Vardiman	Robert Hasserjian	Norbert Gatterman, John Bennett, Richard Brunning, Jürgen Thiele
Refractory cytopenia with multilineage dysplasia	Jürgen Thiele	Richard Brunning	John Bennett, Estella Matutes, Attilio Orazi, James Vardiman, Jürgen Thiele
Refractory anemia with excess blasts	James Vardiman	Attilio Orazi	John Brunning, Robert Hasserjian, Ulrich Germing, JürgenThiele
Myelodysplastic syndromes associated with isolated del (5q)	James Vardiman	Robert Hasserjian	Michelle LeBeau, Alan List, John Bennett, JürgenThiele
0905 Myelodysplastic syndrome, unclassifiable	Jürgen Thiele	Attilio Orazi	Richard Brunning, Irith Baumann, Robert Hasserjian
Myelodysplastic syndromes in children	Jürgen Thiele	Irith Baumann	Charlotte Niemeyer, John Bennett, Kevin Shannon, JürgenThiele
Refractory cytopenia of childhood			
Refractory anemia with excess blasts in children			

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ACUTE MYELOID LEUKEMIA and RELATED PRECURSOR NEOPLASMS			
1010 Acute myeloid leukemia with recurrent genetic abnormalities	James Vardiman	Dan Arber	Clara Bloomfield, Michelle LeBeau, Georges Flandrin, Brunangelo Falini, James Vardiman, Jürgen Thiele, Richard Brunning
AML with t(8;21)(q22;q22), <i>RUNX1-RUNX1T1 (CBFA/ETO)</i>			
AML with inv(16)(p13q22) or t(16;16)(p13;q22), <i>CBFB-MYH11</i>			
Acute promyelocytic leukaemia with t(15;17)(q22;q11-12), <i>PML-RARA</i>			
AML with t(9;11)(p22;q23), <i>MLLT3-MLL</i> and other balanced translocations of 11q23			
AML with t(1;22)(p13;q13), <i>RBM15-MKLI</i>			
AML with t(9;22)(q34;q11), <i>BCR-ABL1</i>			
AML with normal cytogenetics and cytoplasmic/mutated NPM			
AML with mutation of <i>CEBPA</i>			
Acute Myeloid Leukemia with Myelodysplasia-related Features	James Vardiman	Daniel Arber	Richard Brunning, Attilio Orazi, Barbara Bain, James Vardiman, Michelle LeBeau
AML following a myelodysplastic syndrome			
AML with multilineage dysplasia			
AML with MDS-related cytogenetic features			

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Therapy-related acute myeloid leukemia, myelodysplastic syndromes and myelodysplastic/myeloproliferative neoplasms	Jürgen Thiele	James Vardiman	Daniel Arber, Richard Brunning, Richard Larson, Estella Matutes, Irith Baumann, Jürgen Thiele,
Therapy-related acute myeloid leukemia with recurrent balanced chromosomal translocations			
Therapy-related acute myeloid leukemia, MDS or MDS/MPN without recurrent balanced chromosomal translocations			
Acute myeloid leukemia, not otherwise categorized	James Vardiman	Daniel Arber	John Brunning Attilio Orazi LoAnn Peterson Anna Porwit-McDonald Jürgen Thiele
AML minimally differentiated			
AML without maturation			
AML with maturation			
Acute myelomonocytic leukemia			
Acute monoblastic and monocytic leukemia			
Acute erythroid leukemia (erythroid/myeloid, pure erythroid)			
Acute megakaryoblastic leukemia			
Acute basophilic leukemia			
Acute panmyelosis with myelofibrosis			
Myeloid sarcoma	Jürgen Thiele	Stefano Pileri	Attilio Orazi, Brunangelo Falini
Myeloid proliferations related to Down Syndrome	Jürgen Thiele	Irith Baumann	Charlotte Niemeyer, Richard Brunning
Transient abnormal myelopoiesis			
Other myeloid leukemias of Down Syndrome			
OTHER MYELOID RELATED PRECURSOR NEOPLASMS			
Precursor plasmacytoid dendritic cell neoplasm	Nancy Lee Harris	Fabio Facchetti	Daniel Jones, Tony Petrella
Stem cell leukemia/lymphoma syndrome with 8p11 (<i>FGFR1</i>) abnormalities	Nancy Lee Harris	Lynne Abruzzo	Elaine Jaffe, BEING CLARIFIED
ACUTE LEUKEMIAS OF AMBIGUOUS LINEAGE			
Acute leukemias of ambiguous lineage	Nancy Lee Harris	Michael Borowitz	Anna Porwit-MacDonald , Estella Matutes, Marie-Christine Bene
PRECURSOR LYMPHOID NEOPLASMS)			
B-cell lymphoblastic leukemia/lymphoma	Nancy Lee Harris	Michael Borowitz	John K.C. Chan (Hong Kong)
T-cell lymphoblastic leukemia/lymphoma	Nancy Lee Harris	Michael Borowitz	John K. C. Chan (Hong Kong)
NK-cell lymphoblastic leukemia/lymphoma	Nancy Lee Harris	John K. C. Chan (Hong Kong)	Michael Borowitz
MATURE B, T and NK CELL NEOPLASMS			
MATURE B, T and NK CELL NEOPLASMS (introduction)	Elaine Jaffe	Nancy Lee Harris	Harald Stein , Elaine Jaffe, Elias Campo, Stefano Pileri, Steven Swerdlow -differentiation (Harald Stein) -comparison of markers (Nancy Lee Harris) -frequency, age survival, geography (Elaine Jaffe)
MATURE B-CELL NEOPLASMS			
Chronic lymphocytic leukemia/small lymphocytic lymphoma	Steven Swerdlow	Hans-Konrad Muller-Hermelink	Emili Montserrat, Daniel Catovsky, Elias Campo, Nancy Lee Harris, Harald Stein
B-cell prolymphocytic leukemia	Steven Swerdlow	Elias Campo	Daniel Catovsky, Emili Montserrat, Hans Konrad Muller-Hermelink, Nancy Lee Harris, Harald Stein

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Splenic marginal zone lymphoma	Steven Swerdlow	Peter Isaacson	Miguel Piris, Nancy Lee Harris, Steven Swerdlow, Stefania Pittaluga, Francois Berger, Catherine Thieblemont
Hairy cell leukemia	Steven Swerdlow	Kathryn Foucar	Brunangelo Falini, Daniel Catovsky, Harald Stein
Splenic lymphoma/leukemia, unclassifiable	Steven Swerdlow	Miguel Piris	Brunangelo Falini, Kathryn Foucar, Elias Campo , M. Mollejo
Lymphoplasmacytic lymphoma	Harald Stein	Steven Swerdlow	Francois Berger, Nancy Lee Harris, Elaine Jaffe, Harald Stein, Stefano Pileri
Heavy chain diseases (gamma, mu, alpha)	Stefano Pileri	Nancy Lee Harris	Peter Isaacson, Thomas Grogan, Elaine Jaffe
Plasma cell neoplasms	Nancy Lee Harris	Robert McKenna	Robert Kyle, Michael Kuehl, Thomas Grogan, Nancy Lee Harris, Robert Coupland
Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue (MALT-type)	Steven Swerdlow	Peter Isaacson	Shigeo Nakamura, Steven Swerdlow, Nancy Lee Harris, Hans Konrad Muller-Hermelink, Andreas Chott
Nodal marginal zone B-cell lymphoma	Steven Swerdlow	Elias Campo	Stefano Pileri, Elaine Jaffe, Hans Konrad Muller-Hermelink, Bharat Nathwani
Follicular lymphoma	Steven Swerdlow	Nancy Lee Harris	Steven Swerdlow, Elaine Jaffe, German Ott, Bharat Nathwani, Daphne DeJong, Tadashi Yoshino, Dominic Spagnolo
Primary cutaneous follicle centre lymphoma	Steven Swerdlow	Rein Willemze	Steven Swerdlow, Nancy Lee Harris, Beatrice Vergier
Mantle cell lymphoma	Harald Stein	Steven Swerdlow	Elias Campo, Masao Seto, Hans Konrad Mueller-Hermelink
Diffuse large B-cell lymphoma, unspecified	Elias Campo	Harald Stein	Elias Campo, Roger Warnke, John (Wing) Chan, Elaine Jaffe, John K.C. Chan (Hong Kong), Kevin Gatter
Primary mediastinal (thymic) large B-cell lymphoma	Elias Campo	Philippe Gaulard	Stefano Pileri, Harald Stein, Elaine Jaffe, Nancy Lee Harris, Peter Moeller, Alla Kovrigina, Jeffrey Kutok
T cell/histiocyte rich large B-cell lymphoma	Elias Campo	Christine DeWolff-Peters	Jan Delabie, Elias Campo, Elaine Jaffe, Georges Delsol
Intravascular large B-cell lymphoma	Elias Campo	Shigeo Nakamura	Dottor Maurilio Ponzoni, Elias Campo
Primary DLBCL of the CNS	Elias Campo	Philip Kluin	Martina Deckert , Judith Ferry
Primary cutaneous DLBCL, leg type	Elias Campo	Chris Meijer	Elias Campo, Beatrice Vergier, Lyn Duncan
ALK positive DLBCL	Elias Campo	Georges Delsol	Elias Campo, Randy Gascyone
Plasmablastic lymphoma	Elias Campo	Harald Stein	Nancy Lee Harris, Elias Campo
DLBCL associated with chronic inflammation	Elias Campo	John K.C.Chan (Hong Kong)	Katuyuki Aozosa, Elias Campo, Philippe Gaulard
Primary effusion lymphoma	Elias Campo	Jonathan Said	Ethel Cesarman, Elias Campo
Lymphoma associated with HHV8-associated multicentric Castleman Disease	Elias Campo	Peter Isaacson	Nancy Lee Harris, Elias Campo

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Burkitt lymphoma	Elias Campo	Lorenzo Leoncini	Martine Raphael, Harald Stein, Nancy Lee Harris, Elaine Jaffe, Philip Kluin
B-cell lymphoma with features intermediate between Diffuse Large B-cell Lymphoma and Burkitt Lymphoma	Elias Campo	Nancy Lee Harris	Harald Stein, Lorenzo Leoncini, Martine Raphael, Elias Campo, Philip Kluin, Elaine Jaffe
B-cell lymphoma with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma	Harald Stein	ELAINE JAFFE	Harald Stein, Steven Swerdlow, Elias Campo, Stefano Pileri, Nancy Lee Harris
B-CELL LYMPHOPROLIFERATIVE DISORDERS OF VARIABLE MALIGNANT POTENTIAL			
Lymphomatoid granulomatosis	Elias Campo	Stefania Pittaluga	Wyndham Wilson, Elaine Jaffe
MATURE T-CELL AND NK CELL NEOPLASMS			
T-cell prolymphocytic leukemia	Elaine Jaffe	Daniel Catovsky	Hans Konrad Muller-Hermelink, Elisabeth Ralfkiaer
T-cell large granular lymphocytic leukemia	Elaine Jaffe	John (Wing) Chan	Kathryn Foucar, William Morice, Daniel Catovsky
Indolent large granular NK-cell lymphoproliferative disorder	Elaine Jaffe	Neus Villamor	John (Wing) Chan ,Kathryn Foucar, William Morice
0205 Aggressive NK cell leukemia	Elaine Jaffe	John K.C. Chan (Hong Kong)	Elaine Jaffe, Elisabeth Ralfkiaer, Young-Hyeh Ko
Fulminant EBV+ T-cell lymphoma of childhood	Elaine Jaffe	Leticia Quintanilla-Martinez	Hiroshi Kimura
Adult T-cell leukaemia/lymphoma, (HTLV1+)	Elaine Jaffe	Kochi Oshima	Elaine Jaffe, Masahiro Kikuchi
Extranodal NK/T cell lymphoma	Elaine Jaffe	John KC Chan (Hong Kong)	Leticia Quintanilla-Martinez, Judith Ferry, Suat-Cheng Peh
Enteropathy-Associated T-cell lymphoma	Elaine Jaffe	Peter Isaacson	Andreas Chott, Harald Stein, German Ott
Hepatosplenic T-cell lymphoma	Elaine Jaffe	Philippe Gaulard	Elaine Jaffe, Laszlo Krenacs, William Macon
Subcutaneous panniculitis-like T-cell lymphoma	Stefano Pileri	ELAINE JAFFE	Philippe Gaulard, Elisabeth Ralfkiaer, Lorenzo Cerroni, Chris Meijer
Mycosis Fungoides	Elias Campo	Elisabeth Ralfkiaer	Lorenzo Cerroni, Christian Sander, Bruce Smoller
Sezary Syndrome	Elias Campo	Elisabeth Ralfkiaer	Rein Willemze, Sean Whittaker
Extranodal peripheral T-cell lymphomas, rare subtypes	Elaine Jaffe	Philippe Gaulard	Emilio Berti, Rein Willemze, Elaine Jaffe
Primary cutaneous aggressive epidermotropic CD8 positive cytotoxic T-cell lymphoma			
Cutaneous gamma-delta T-cell lymphoma			
Primary cutaneous small/medium CD4 positive T-cell lymphoma (provisional)			
Angioimmunoblastic T-cell lymphoma	Stefano Pileri	Ahmet Dogan	Philippe Gaulard, Elaine Jaffe, Elisabeth Ralfkiaer, Hans Konrad Mueller-Hermelink
Peripheral T-cell lymphoma, unspecified	Elaine Jaffe	Stefano Pileri	Dennis Weisenburger, Hans Konrad Muller-Hermelink, Elaine Jaffe, Elisabeth Ralfkiaer, Shigeo Nakamura, Ivy Sng

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Anaplastic large cell lymphoma (ALCL), ALK positive	Harald Stein	Georges Delsol	Brunangelo Falini, Hans Konrad Muller-Hermelink, Elias Campo, Elaine Jaffe, Randy Gascoyne, Harald Stein, Marsha Kinney
Anaplastic large cell lymphoma (ALCL), ALK negative	Harald Stein	David Mason	Delsol, Elias Campo, Elaine Jaffe, Nancy Lee Harris, Harald Stein, Marsha Kinney, Brunangelo Falini
T-CELL LYMPHOPROLIFERATIVE DISORDERS OF VARIABLE MALIGNANT POTENTIAL			
Primary cutaneous CD30 positive T-cell lymphoproliferative disorders	Elaine Jaffe	Elisabeth Ralfkiaer	Rein Willemze, Marco Paulli, Marshall Kadin
HODGKIN LYMPHOMA			
Hodgkin Lymphoma -- Introduction	Nancy Lee Harris	Harald Stein	
Nodular lymphocyte predominant Hodgkin lymphoma	Harald Stein	Sibrand Poppema	Georges Delsol, Stefano Pileri, Harald Stein, Steven Swerdlow, Roger Warnke, Elaine Jaffe
Classical Hodgkin lymphoma, introduction	Nancy Lee Harris	Harald Stein	Georges Delsol, Stefano Pileri, Lawrence Weiss, Sibrand Poppema, Elaine Jaffe
Nodular sclerosis classical Hodgkin lymphoma	Nancy Lee Harris	Harald Stein	Reinhard Von Wasielewski, Sibrand Poppema, Kenneth MacLennan, Margarita Guenova
Mixed cellularity classical Hodgkin lymphoma	Harald Stein	Lawrence Weiss	Reinhard Von Wasielewski, Georges Delsol, Sibrand Poppema, Harald Stein
Lymphocyte-rich classical Hodgkin lymphoma	Harald Stein	Ioannis Anagnostopoulos	Peter Isaacson, Harald Stein
Lymphocyte depleted classical Hodgkin lymphoma	Harald Stein	Daniel Benharroch	Harald Stein, Suat-Cheng Peh
IMMUNODEFICIENCY ASSOCIATED LYMPHOPROLIFERATIVE DISORDERS			
0402 Lymphoproliferative Diseases associated with Primary Immune Disorders	Harald Stein	Han Van Krieken	Elaine Jaffe, Kojo Elenitoba-Johnson, Michaela Onciu
0404 Lymphomas associated with HIV infection (this is a slightly revised title)	Stefano Pileri	Martine Raphael	Jonathan Said, Bettina Borisch, Ethel Cesarman, Nancy Lee Harris
Post-transplant lymphoproliferative disorders	Harald Stein	Steven Swerdlow	Judith Ferry, Steven Webber, Amy Chadburn
Other iatrogenic immunodeficiency-associated lymphoproliferative disorders (this is a slightly revised title)	Stefano Pileri	Philippe Gaulard	Steven Swerdlow, Nancy Lee Harris, Elaine Jaffe, Christer Sundstrom
Other EBV positive lymphoproliferative disorders	Stefano Pileri	Shigeo Nakamura	Elaine Jaffe, Steven Swerdlow
HISTIOCYTIC AND DENDRITIC CELL NEOPLASMS			
Histiocytic / Dendritic-cell neoplasms and related disorders – introduction	Stefano Pileri	Ronald Jaffe	Stefano Pileri, Fabio Facchetti, Daniel Jones, Elaine Jaffe
Histiocytic sarcoma & variants	Stefano Pileri	Thomas Grogan	Stefano Pileri, John KC Chan (Hong Kong), Lawrence Weiss, Christopher Fletcher
Langerhans cell histiocytosis	Stefano Pileri	Ronald Jaffe	Lawrence Weiss, Fabio Facchetti
Interdigitating dendritic cell sarcoma	Stefano Pileri	Lawrence Weiss	Thomas Grogan, John KC Chan (Hong Kong)

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Follicular dendritic cell sarcoma/tumour	Stefano Pileri	John K.C. Chan (Hong Kong)	Stefano Pileri, Georges Delsol, Christopher Fletcher, Lawrence Weiss, Karen Grogg
Dendritic-cell sarcoma, not otherwise specified	Stefano Pileri	Lawrence Weiss	John K. C. Chan (Hong Kong), Christopher Fletcher
Juvenile xanthogranuloma (disseminated)	Stefano Pileri	Ronald Jaffe	Christopher Fletcher, Walter Burgdorf