



National Cancer Institute

Hematopoietic and Lymphoid Neoplasm Project





Background

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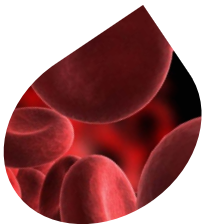
NCI SEER

September 2009



Objectives (1)

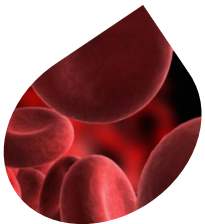
- Explain why rules were developed
- Describe Hematopoietic working group
 - General information
 - Membership
 - Objectives





Objectives (2)

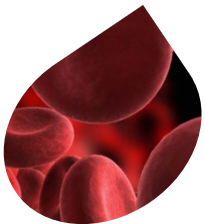
- Introduce products developed
 - Manual (Rules)
 - Database
- Explain why two products were needed





Why New Rules?

- Under-reporting of hem/lymph cases
- Medical advances
- New terminology
- Revised WHO Classification of Hem Tumors
- Abbreviated reporting rules
- Lack of documentation covering all neoplasms



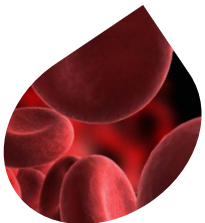


Hematopoietic Working Group (1)

Led by NCI SEER

Representatives from

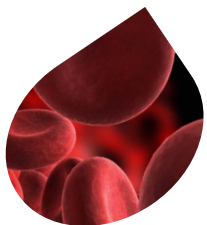
- National Program of Cancer Registries Centers for Disease Control (NPCR CDC)
- American College of Surgeons Commission on Cancer (ACoS CoC)
- National Cancer Registrars Association (NCRA)
- North American Association of Central Cancer Registries (NAACCR)
- Canadian Cancer Registries (CCR)





Hematopoietic Working Group (2)

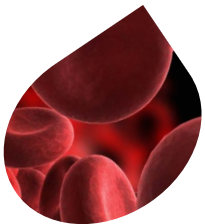
- Membership includes
 - Hospital registrars
 - Central registry registrars
 - Specialty physicians
 - Pathologists





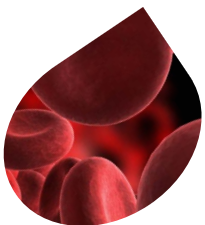
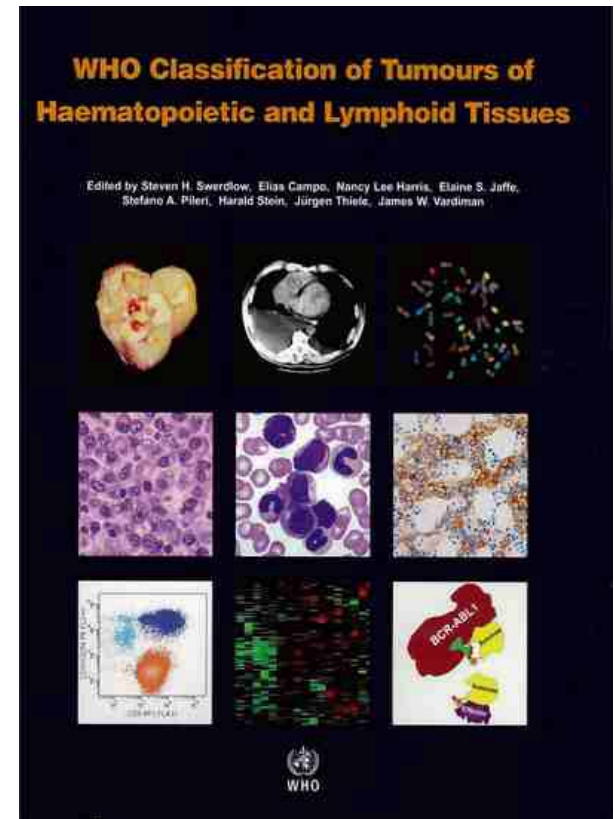
Working Group Objectives

- Define problems
- Recommend actions
- Develop solutions to
 - support cancer registrars
 - Improve data quality



What is New / Different? (1)

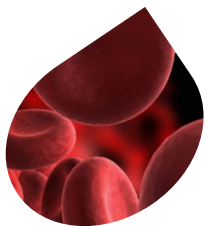
- Authoritative reference = WHO
- New histology terms
- Transformation = new primary





What is New / Different? (2)

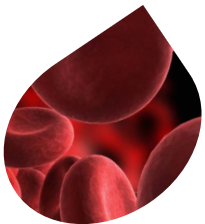
- Manual
 - Covers all hematopoietic and lymphoid neoplasms





What is New / Different? (3)

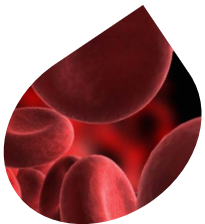
- Database
 - Replaces *Single Versus Subsequent Primaries of Lymphatic and Hematopoietic Diseases*” table
 - Replaces previous casefinding & reportable lists





Manual & Database

- Designed to work together
 - Use database in conjunction with manual



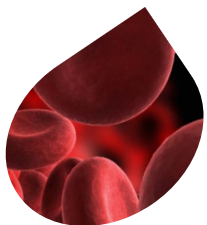


Manual (Rules)

- Reportability
- Multiple primary
- Primary site & histology
- Grade
- Glossary
- Tables

Database

- Definition
- Synonyms
- Definitive diagnostic method
- Transformations
- Abstractor notes
- Treatment types
- Genetic testing & immunophenotyping
- MP calculator





Hematopoietic Database



Multiple Primaries Calculator

Disease 1

Disease 2

Compare

Display Codes...

Close Calculator

Hemato Manual

14



Case Reportability and Coding Manual Glossary

Allogeneic bone marrow/stem cell transplant:

Marrow is used from a donor whose Human Leukocyte Antigens (HLA)...

Anemia: The number of red blood cells is below normal...

Apheresis: Process in which the blood of a donor or patient...

BCR-ABL cancer gene: A mutant gene that is formed...



Appendix A

History of Hematopoietic and Lymphoid Neoplasm Coding

Obsolete terms as defined in ICD-O-3
Hematopoietic and
Lymphoid Neoplasms

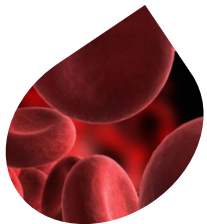


Table A2: Hodgkin Lymphoma (Hodgkin Disease) Obsolete Terms

| Obsolete Term | Notes | ICD-O-3 Code | Current Term |
|---|---|--------------|----------------------------------|
| Hodgkin disease, lymphocyte predominance, diffuse | <i>Source: Lukes-Butler classification, 1966; Obsolete: REAL classification 1994</i> | 9651/3 | Lymphocyte-rich Hodgkin lymphoma |
| Hodgkin disease, lymphocyte predominance, NOS | <i>Source : Rye classification, 1966 ; Obsolete : REAL classification 1994</i> | 9651/3 | Lymphocyte-rich Hodgkin lymphoma |
| Hodgkin disease, lymphocytic-histiocytic predominance | <i>Source: Lukes-Butler classification, 1966; Obsolete as of REAL classification 1994</i> | 9651/3 | Lymphocyte-rich Hodgkin lymphoma |



Appendix B

WHO Classification of Tumors of Hematopoietic and Lymphoid Tissues

Histology Lineage

*Note: Only the WHO Preferred Terms are listed.
Use the Hematopoietic Database to identify synonyms
that correspond to the WHO Preferred Term*

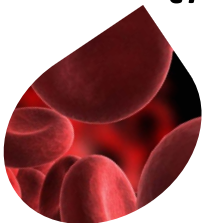


Table B1: Myeloproliferative Neoplasms

| WHO Preferred Term | ICD-O- 3 |
|---|----------|
| Chronic eosinophilic leukemia, NOS | 9964/3 |
| Chronic myelogenous leukemia, BCR-ABL1 positive | 9875/3 |
| Chronic neutrophilic leukemia | 9963/3 |
| Cutaneous mastocytosis | 9740/1 |
| Essential thrombocythemia | 9962/3 |
| Mast cell leukemia | 9742/3 |
| Mast cell sarcoma | 9740/3 |
| Myeloproliferative neoplasm, unclassifiable | 9975/3 |
| Polycythemia vera | 9950/3 |
| Primary myelofibrosis | 9961/3 |
| Systemic mastocytosis | 9741/3 |



Appendix C

Lymph Node/Lymph Node Chain

Reference Table

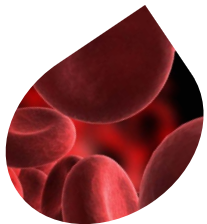




Table C1: Lymph Node / Lymph Node Chain Reference Table

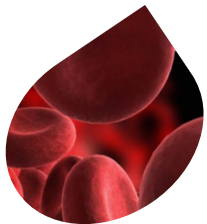
| Lymph Node / Lymph Node Chain | ICD-O-3 Code | ICD-O-3 Lymph Node Region(s) | AJCC Lymph Node Region(s) |
|--|---------------------|-------------------------------------|----------------------------------|
| Abdominal | C772 | Intra-abdominal | Pelvic, right and left* |
| Anorectal | C772 | Intra-abdominal | Pelvic, right and left* |
| Anterior axillary | C773 | Axilla or arm | Axillary, right and left* |
| Anterior cecal | C772 | Intra-abdominal | Para-aortic |
| Anterior deep cervical | C770 | Head, face and neck | Cervical, right and left* |
| Anterior jugular | C770 | Head, face and neck | Cervical, right and left* |
| Aortic NOS; ascending aortic lateral aortic; lumbar aortic; para-aortic; peri-aortic | C772 | Intra-abdominal | Para-aortic |



Appendix D

New Histology Terms and Codes

Hematopoietic and Lymphoid Neoplasms



Tables D1a & D1b

New Histology Terms and Codes

| New Histology Term | ICD-O Code |
|---|------------|
| Acute myeloid leukemia (megakaryoblastic) with t(1;22)(p13;q13); RBM15-MKL1 | 9911/3 |
| Acute myeloid leukemia with inv(3)(q21q26.2) or t(3;3)(q21;q26.2); RPN1EVI1 | 9869/3 |
| Acute myeloid leukemia with t(6;9)(p23;q34) DEK-NUP214 | 9865/3 |
| ALK positive large B-cell lymphoma | 9737/3 |
| B lymphoblastic leukemia/lymphoma with t(12;21)(p13;q22); TEL-AML1 (ETV6-RUNX1) | 9814/3 |
| B lymphoblastic leukemia/lymphoma with t(9;22)(q34;q11.2); BCR-ABL1 | 9812/3 |
| B lymphoblastic leukemia/lymphoma with t(v;11q23); MLL rearranged | 9813/3 |



Table D2: Histologic Terms and Codes with Changes in Case Reportability (Newly Reportable Conditions)

| Histology Term | ICD-O Code |
|--|------------|
| Langerhans cell histiocytosis, NOS | 9751/3 |
| Myeloproliferative neoplasm, unclassifiable/ Myelodysplastic/Myeloproliferative neoplasm, unclassifiable | 9975/3 |
| T-cell large granular lymphocytic leukemia/ Chronic lymphoproliferative disorder of NK-cells | 9831/3 |



Appendix E

Histology “NOS” Tables

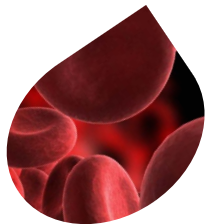


Table E1: ICD-O-3 “NOS” Terms and Codes and WHO New “NOS” Terms and Codes Alphabetic List

| Term | Reference | Code |
|--|-----------|--------|
| Malignant lymphoma, NOS | ICD-O | 9590/3 |
| Malignant lymphoma, non-Hodgkin, NOS | ICD-O | 9591/3 |
| Hodgkin lymphoma, NOS | ICD-O | 9650/3 |
| Burkitt lymphoma, NOS | ICD-O | 9687/3 |
| Mixed phenotype acute leukemia, B/myeloid, NOS | WHO | 9808/3 |
| Mixed phenotype acute leukemia, T/myeloid, NOS | WHO | 9809/3 |
| B lymphoblastic leukemia/lymphoma, NOS | WHO | 9811/3 |



Appendix F

Master Code Lists

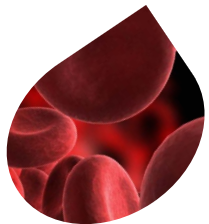


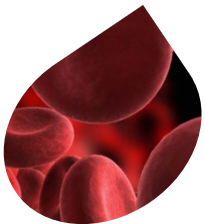
Table F1a: WHO/ICD-O-3 Master List of Histology Codes – Alphabetical List

| Histologic Term | 2010 WHO Only | ICD-O-3 Only | WHO and ICD-O-3 |
|---|----------------------|---------------------|------------------------|
| Acute basophilic leukemia | | | 9870/3 |
| Acute biphenotypic leukemia | | 9805/3 | |
| Acute erythroid leukemia | | | 9840/3 |
| Acute megakaryoblastic leukemia | | | 9910/3 |
| Acute monoblastic and monocytic leukemia | | | 9891/3 |
| Acute myeloid leukemia (megakaryoblastic) with t(1;22)(p13;q13);RBM15-1 | 9911/3 | | |



Summary

- Reason rules were developed
- Describe Hematopoietic working group
- Introduce Manual & Database
- Reason for two products





Conclusion

- The new hematopoietic and lymphoid neoplasm rules go into effect for cases diagnosed **January 1, 2010, and after**
- Email address for questions askseerctr@imsweb.com

