

Users Guide for NCI's Online Hematopoietic and Lymphoid Database

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What's New in the Hematopoietic and Lymphoid Database

The **Hematopoietic and Lymphoid Database** has been updated with the following changes:

- The 2010 and 2012 databases have been combined into one database, which also has all changes for 2014.
- The **Home** page is now one panel with two columns displaying disease names and ICD-O-3 morphology codes for all the diseases in the database.
- Each disease is now displayed in its own tab. This allows the user to bookmark and send and store links to specific diseases.
- The **Search** function now searches all fields.
- A relevance column has been added to the search results page when a search term is used showing the relevance of each specific entry based upon the search term used.
- The search results are now displayed in a sortable table and the table can be sorted by relevance, by name or by ICD-O-3 morphology code.
- The information presented for each disease has been modified. New fields for the ICD-O-1 and ICD-O-2 code have been added and some of these data have been back-filled. This is to show the user how/if the ICD code has changed over the years. The effective date for each ICD code is now also displayed.
- The user must now select a diagnosis year to be shown the correct information for that diagnosis year. This information will change depending upon the diagnosis year selected.
- The Heme manual is now displayed as a link on the disease page, since the manual shown is dependent upon the diagnosis year chosen.

Home Page

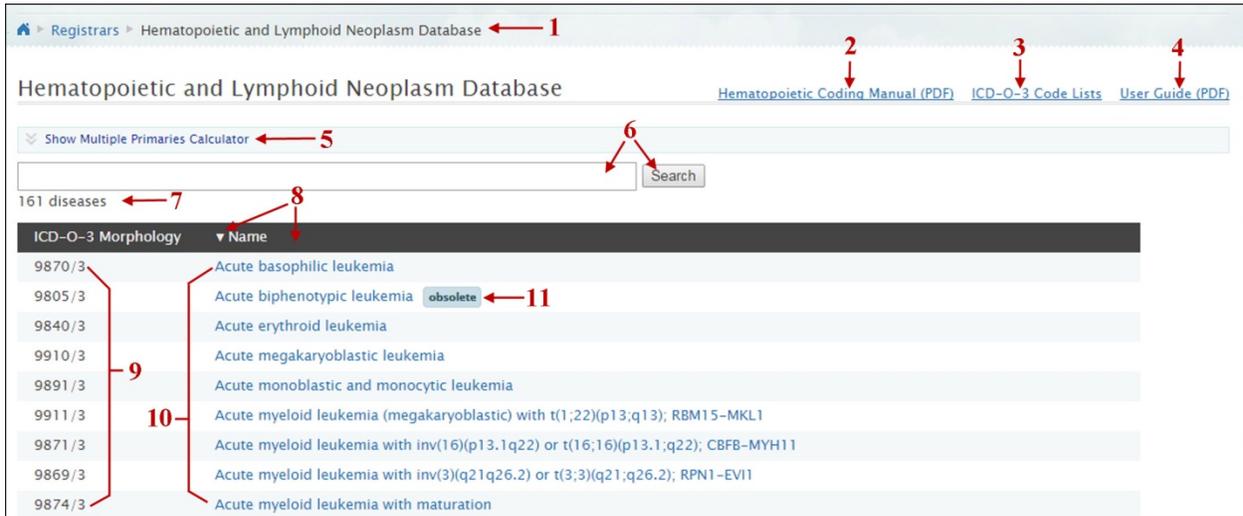


Figure 1 – Hematopoietic and Lymphoid Database Home Page

When the **Hematopoietic and Lymphoid Database** opens the search field is blank, all of the entries in the database appear under the **ICD-O-3 and Morphology** and **Name** columns. When the user highlights a disease, the Disease Information page opens.

1. The breadcrumbs appear at the top of each page of the **Hematopoietic and Lymphoid Database**, telling you where you are on the web site.
2. **Hematopoietic Coding Manual** links to the most recent **Hematopoietic and Lymphoid Neoplasm Coding Manual** for information on coding any hematopoietic and lymphoid neoplasms.
3. **ICD-O-3 Code Lists** links to the **ICD-O-3 Code Lists** page. From that page you can select the ICD-O Code List you want to display. (See the section Using ICD Code Lists for more information.)
4. **Users Guide (PDF)** links to this guide.
5. To open the **Multiple Primaries Calculator**, click on the link on the upper left side of the screen. The calculator compares ICD codes, as long as the latest diagnosis year of one of the codes is 2010 or later, to determine whether they represent the same primary or a new primary.
6. The database search field and **Search** button are above the **ICD-O-3 and Morphology** and **Name** title bar (#6). (See the section **Searching the Database** for more information.)
7. The number of the diseases in the database appears above the title bar for the **ICD-O-3 and Morphology** and **Name**. When a search has been run, this number becomes the number of results for that search.
8. The title bar for the **ICD-O-3 and Morphology** and **Name**. The diseases can be sorted by ICD-O-3 code or name in descending order (down arrow) or ascending (up arrow) order by clicking on the title by which you want to search. The arrow toggles to point either up or down by clicking again.
9. The **ICD-O-3 and Morphology** column holds the ICD-O-3 and morphology codes for each disease on the list.

10. The names of each disease appear in the **Name** column.
11. Indication that a disease has been declared obsolete. (See *Viewing the Information for an Obsolete Disease*.)

Searching the Database

▲ Relevance	ICD-O-3 Morphology	Name
—	9863/3	Chronic myeloid leukemia, NOS
—	9875/3	Chronic myelogenous leukemia, BCR-ABL1 positive
—	9945/3	Chronic myelomonocytic leukemia
—	9823/3	Chronic lymphocytic leukemia/small lymphocytic lymphoma
—	9837/3	T lymphoblastic leukemia/lymphoma
—	9860/3	Myeloid leukemia, NOS

Figure 2 – Search Screen

1. Enter terms for the search in the Search field.
2. Click the **Search** button to see the results of an “or” search for those terms. An “or” search treats multiple terms as if there is an “or” between each search term. In the example above, either the word “chronic” or the word “leukemia” must appear in every result. There will be two links above, the selected link will say **N diseases match any terms** (**N** stands for the number of matching diseases). You can toggle between the links to see the “or” and “and” search results.
3. Click on the **N diseases match all terms** link (**N** stands for the number of matching diseases) and the results of the “and” search for the same terms will appear. An “and” search treats multiple terms as if there is an “and” between each. So every term that appears in the search string must also appear in every result.
4. Click on the red **X** to reset the search to blank. The Results will include **all** database entries.

The Hematopoietic and Lymphoid Database search function follows these rules:

- Search terms are **not** case-sensitive so you can enter them in any case.
- To search for exact terms in a precise order, use quotation marks (e.g., “term1 term2”).
- All search terms are highlighted in the **Results** column and the **Disease Information** column.
- The search is weighted and the default is to sort the results based on **Relevance** by weight, but the column headers also allow the user to sort the results by relevance, name, or ICD-O-3 code, either ascending or descending, simply by clicking on the column header.

Multiple Primaries Calculator

Multiple Primaries Calculator

The Multiple Primaries Calculator was designed to be used with the coding manual. Follow the rules and workflow in the manual prior to using the calculator. Use the Multiple Primaries Calculator when the rules instruct you to do so. If you are working with cases diagnosed before 2010 use the [ICD-O-3 Hematopoietic Primaries Table \(PDF\)](#) instead.

Histology Code 1: 9870 Histology Code 2: 9805 Calculate **New Primary** — result

Close Multiple Primaries Calculator

Figure 3 – Multiple Primaries Calculator

The **Multiple Primaries Calculator** shows whether two morphology codes are for the same primary or a new primary.

Note: This MP Calculator is only to be used when at least one of the diagnosis years for the two codes is 2010 or later. If both diagnosis years are prior to 2010, use the link for the ICD-O-3 Hematopoietic Primaries Table (link provided in the note for the calculator).

To compare two codes:

1. Select the **Show Multiple Primaries Calculator** (#3 in Figure 1) on the link. The calculator (see Figure 3) will open.
2. Enter **Morphology Code 1** (#1 on Figure 3) and **Morphology Code 2** (#2 on Figure 3).
3. Click the **Calculate** (#3 on Figure 3) button.
4. The result will be shown either as **New Primary** or **Same Primary**.

Using the ICD Code Lists

ICD Code Lists

Displaying code lists for: ICD-O-3

ICD-O-3	Name	Reportability
9590/3	Malignant lymphoma, NOS	for cases diagnosed 1978 and later
9591/3	Non-Hodgkin lymphoma, NOS	for cases diagnosed 1978 and later
9596/3	B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma	for cases diagnosed 2001 and later
9597/3	Primary cutaneous follicle centre lymphoma	for cases diagnosed 2010 and later
9650/3	Classical Hodgkin lymphoma	for cases diagnosed 1978 and later

Figure 4 – ICD Code List Dropdown

1. Click the **ICD-O-3 Code Lists** link (#1 on Figure 1) at the top right of the web page. The ICD-O-3 code list opens with the ICD-O-3.
2. A dropdown menu (#1 on Figure 4) allows you to select different configurations that include ICD-9 and ICD-10 code lists.
3. On all of the ICD code list configurations, the ICD codes link to the information about them in the **Hematopoietic and Lymphoid Database**.
4. The **Print** button (#2 on Figure 4) on the top right opens a print dialog allowing you to print the open code list.
5. The **Export** button (#3 on Figure 4) on the top right opens an export dialog that allows you to export the list in a .csv file. The file can be saved or opened in Microsoft Excel and other applications where .csv files can be viewed.

Displaying code lists for: ICD-O-3 -> ICD-9 and ICD-10

ICD-O-3	Name	Reportability	ICD-9	ICD-10
9590/3	Malignant lymphoma, NOS	for cases diagnosed 1978 and later	202.8 Other lymphoma	C85.9 Non-Hodgkin's lymphoma, unspecified type
9591/3	Non-Hodgkin lymphoma, NOS	for cases diagnosed 1978 and later	202.8 Other lymphoma	C85.9 Non-Hodgkin's lymphoma, unspecified type

Figure 5 – Multiple ICD-O Code Lists

Note: Figure 5 shows how the ICD-O-3 Code Lists page handles multiple code lists.

Viewing the Information for a Specific Disease

Each disease now has its own page and URL, which makes it possible to bookmark any disease information pages that you use regularly.

The screenshot shows the 'Disease Information' page for 'Acute basophilic leukemia'. The page is titled 'Acute basophilic leukemia' and includes a breadcrumb trail: 'Registrars > Hematopoietic and Lymphoid Neoplasm Database > Disease Information'. A link for 'ICD-O-3 Code Lists' is visible in the top right. The main content area lists several fields with red arrows and numbers pointing to specific elements:

- 1** points to the disease name 'Acute basophilic leukemia'.
- 2** points to the ICD-O morphology codes and effective date ranges: '9870/3 Effective 1978 - 1991', '9870/3 Effective 1992 - 2000', and '9870/3 Effective 2001 and later'.
- 3** points to the 'Reportable' section: 'for cases diagnosed 1978 and later'.
- 4** points to the 'Primary Site(s)' field: 'C421'.
- 5** points to the 'Help me code for dx year' dropdown menu, which is currently set to '2014'.
- 6** points to the 'Coding Manual: Hematopoietic Coding Manual' link.

Below these fields, the page provides additional information: 'Grade' (Code grade specified by pathologist. If no grade specified, code 9), 'Module Rule' (None), 'Alternate Names' (None), 'Definition' (An acute myeloid leukemia in which the primary differentiation is to basophils. Rare form of acute myeloid leukemia where blasts are accompanied by abnormal basophils in all stages of differentiation.), and 'Abstractor Notes' (Cutaneous involvement, organomegaly, lytic lesion, and symptoms relating to hyperhistaminemia may be present. Basophilic leukemia is differentiated from other AML subtypes with basophilia using basophilia immunological markers, light microscopic cytochemistry for myeloperoxidase).

Figure 6 – Disease Information Page

1. **Name** of the disease on this Disease Information Page.
2. Codes and effective date ranges for all of the ICD-O morphologies (when available).
3. The years the disease was reportable.
4. Primary site code.
5. Diagnosis year dropdown menu for coding the disease. (See Figure 7.)
6. Link to the **Coding Manual** for the year of the diagnosis.

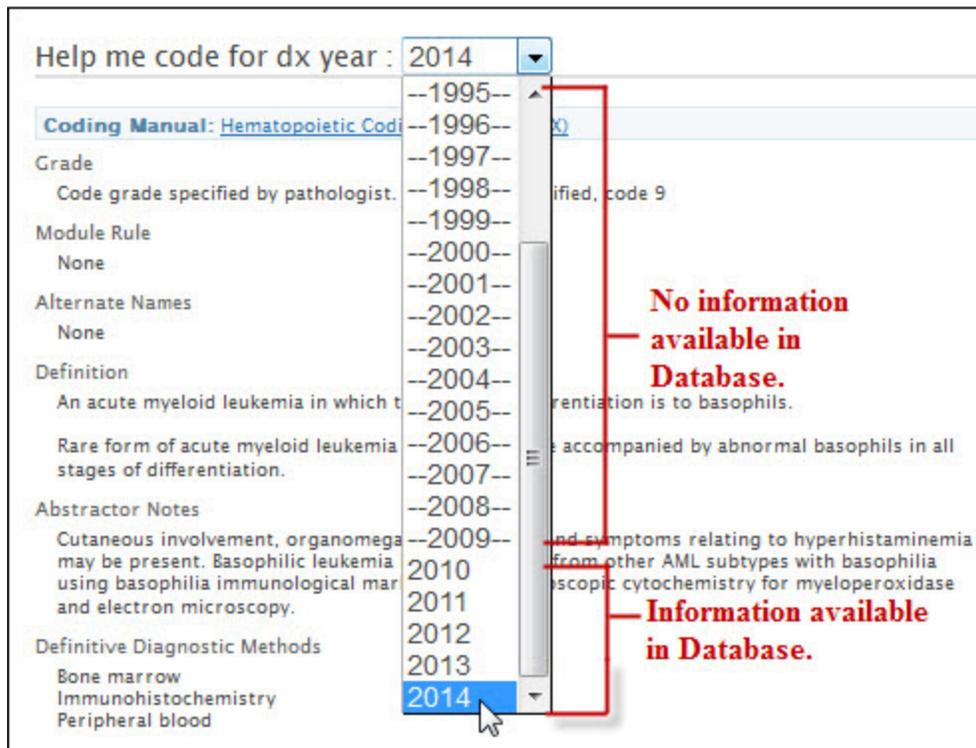


Figure 7 – Year of Diagnosis Dropdown Menu

The dropdown menu for selecting the year for diagnosis may include years where there is no information available in the database, other than the information above the diagnosis year dropdown menu. A double hyphen appearing before and after a year (e.g. --1995--) indicates that information such as description and abstractor notes for that year of diagnosis for that disease is not currently available in the database.

Acute basophilic leukemia

Name
Acute basophilic leukemia

ICD-O-1 Morphology
9870/3 [Effective 1978 - 1991](#)

ICD-O-2 Morphology
9870/3 [Effective 1992 - 2000](#)

ICD-O-3 Morphology
9870/3 [Effective 2001 and later](#)

Reportable
for cases diagnosed 1978 and later

Primary Site(s)
C421

Help me code for dx year : --2007-- ▾

[Coding Manual: ICD-O-3 Hematopoietic Primaries Table \(PDF\)](#) ← 1

There is no other information for the selected year ← 2

Figure 8 – Example Year of Diagnosis not in Database

1. Link to the **Coding Manual**.
2. Message indicating that the database has no disease information for the selected year.

Some of the years of diagnosis that are not currently included in the database have a link to a coding manual that you can use to code the disease. Currently full disease information is available from 2010 and later.

Viewing the Information for an Obsolete Disease

Acute biphenotypic leukemia [ICD-O-3 Code Lists](#)

This disease is obsolete.
For current cases please see codes
[9806/3 Mixed phenotype acute leukemia with t\(9;22\)\(q34;q11.2\); BCR-ABL1](#)
[9807/3 Mixed phenotype acute leukemia with t\(v;11q23\); MLL rearranged](#)
[9808/3 Mixed phenotype acute leukemia, B/myeloid, NOS](#)
[9809/3 Mixed phenotype acute leukemia, T/myeloid, NOS](#)

Name
Acute biphenotypic leukemia

ICD-O-3 Morphology
9805/3 Effective 2001 - 2009

Reportable
for cases diagnosed 2001 - 2009

Primary Site(s)
C421

Help me code for dx year : --2014-- ▾

There is no other information for the selected year

Figure 9 – Example of Obsolete Disease Information Page

Sometimes a disease will be declared obsolete because it has been determined to be multiple diseases, or what was previously considered as multiple diseases has been determined to be one disease. When this happens, diseases that may have been diagnosed according to the previous disease rules must be coded according to the current rules for that year. When dealing with an obsolete disease, go to the links for current cases to determine how to code the disease for diagnosis years after the effective years for this disease. If your year of diagnosis for an obsolete disease is within the effective year range for this disease, choose the diagnosis year from the drop down box and information for coding the disease for that diagnosis year will appear.