

Slide 1 - Hematopoietic and Lymphoid Neoplasm Project

National Cancer Institute

# Hematopoietic and Lymphoid Neoplasm Project

Animation  
(800 x 600)  
(X:0; Y:0)



Slide 2 - Using the Hematopoietic DB

# Using the Hematopoietic DB

Carol Hahn Johnson, BS, CTR

NCI SEER

November, 2009

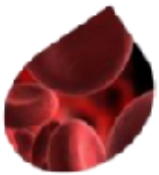
Animation  
(800 x 600)  
(X:0; Y:0)

## Slide 3 - Acknowledgments

# Acknowledgments

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



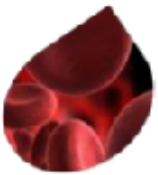
Slide 4 - With Special Thanks to

# With Special Thanks to

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- Graca Dores, MD
- Charles Platz, MD
- Amy Blum, RHIT, CTR
- The Hematopoietic Working Group

Animation  
(800 x 600)  
(4:01:40)



Slide 5 - Objectives

# Objectives

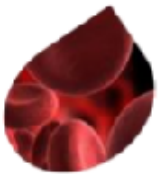
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Understand when the Hematopoietic DB should be used

Learn to use the Hematopoietic DB to its full potential

Animation  
(800 x 600)  
(X:0; Y:0)

Understand all of the functions of the Hematopoietic DB



Slide 6 - When to Use DB

# When to Use DB

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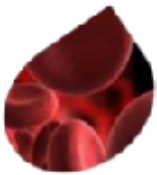
Casefinding -search function

Using definitive diagnostic methods

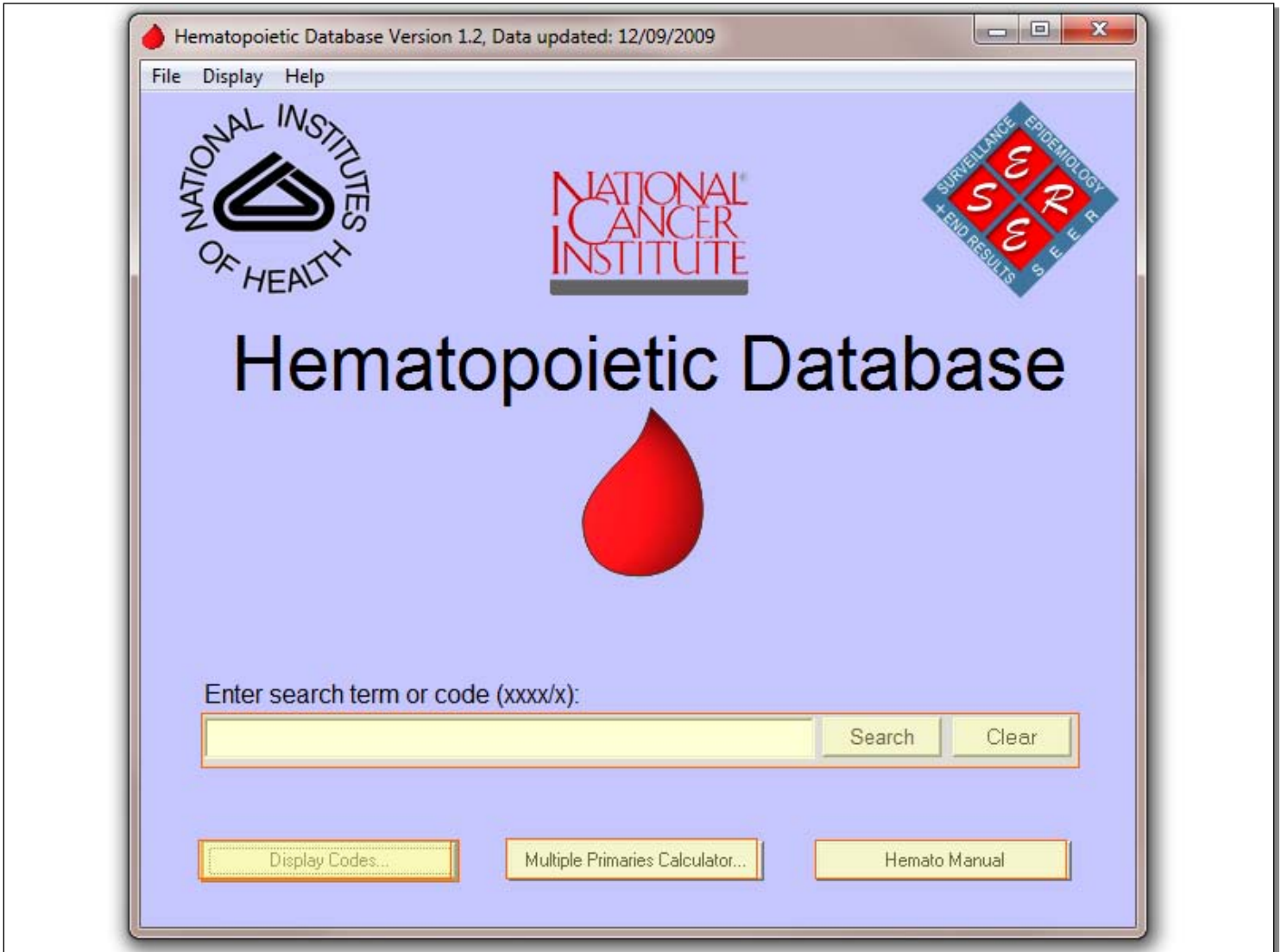
Determining multiple primaries

Abstracting a case using the information  
available in the DB

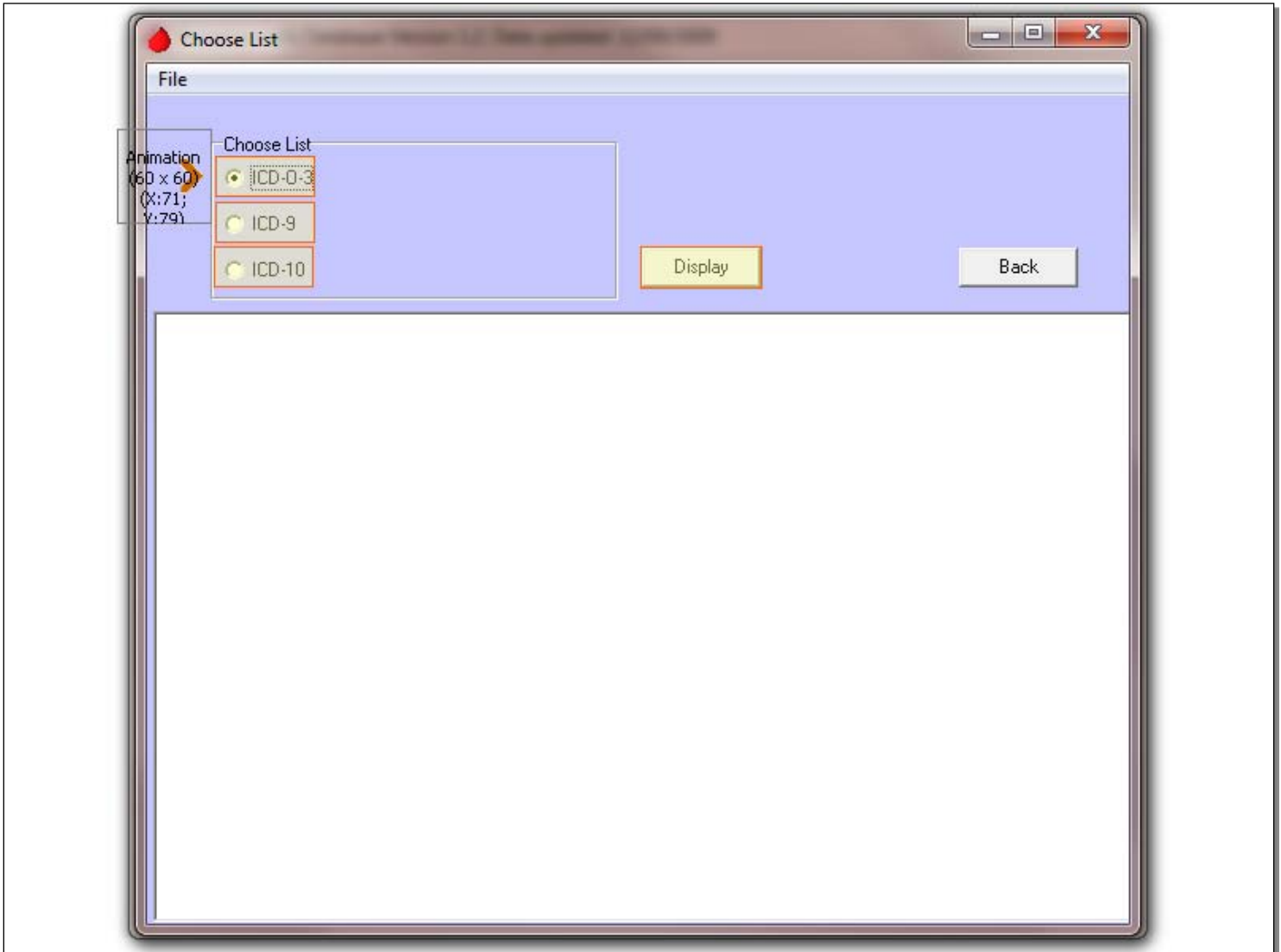
Animation  
(800 x 600)  
(%D, %Y:0)



Slide 7 - Slide 7



Slide 8 - Slide 8





Slide 9 - Slide 9

The screenshot shows a software window titled "ICD-O-3 Code List". The window has a menu bar with "File" and a toolbar with "Print...", "Export...", and "Back" buttons. A "Display List By" section contains two radio buttons: "ICD-O-3 Numeric Order" (selected) and "Alphabetical by Preferred Name". The main content area displays a list of codes and names:

- 9590/3 Malignant lymphoma, NOS
  - Lymphoma, NOS
  - Microglioma
- 9591/3 Malignant lymphoma, non-Hodgkin, NOS
  - B cell lymphoma NOS
  - HCL-v
  - Hairy cell leukemia-variant
  - Lymphocytic lymphoma simulating hairy cell leukemia
  - Lymphosarcoma, NOS
  - Lymphosarcoma, diffuse
  - Malignant lymphoma, diffuse, NOS
  - Malignant lymphoma, lymphocytic, intermediate differentiation, nodular
  - Malignant lymphoma, lymphocytic, poorly differentiated, diffuse
  - Malignant lymphoma, non-Hodgkin, NOS
  - Malignant lymphoma, non-cleaved cell, NOS
  - Malignant lymphoma, small cell, noncleaved, diffuse
  - Malignant lymphoma, small cleaved cell diffuse
  - Malignant lymphoma, undifferentiated cell type, NOS
  - Malignant lymphoma, undifferentiated cell, non-burkitt
  - NHL
  - Pleomorphic variant of HCL
  - Pleomorphic variant of hairy cell leukemia
  - Reticulum cell sarcoma NOS

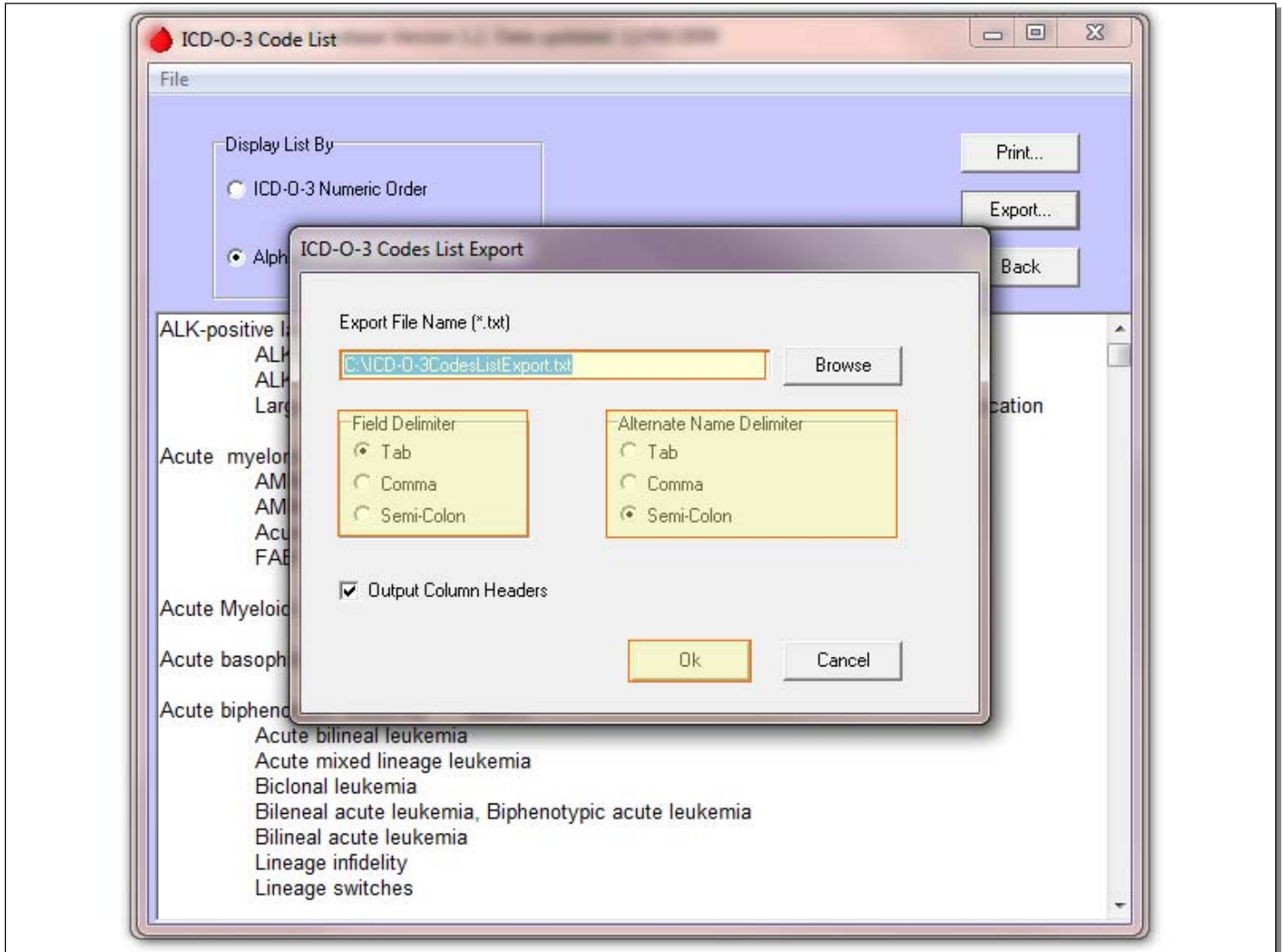
Animation  
(60 x 60)  
(X:69;  
Y:86)

Slide 10 - Slide 10

The screenshot shows a window titled "ICD-O-3 Code List" with a "File" menu bar. Below the menu bar, there is a "Display List By" section with two radio buttons: "ICD-O-3 Numeric Order" (unselected) and "Alphabetical by Preferred Name" (selected). To the right of this section are three buttons: "Print...", "Export...", and "Back". The main content area displays a list of codes and their corresponding descriptions, sorted alphabetically by preferred name. The list includes:

- ALK-positive large B-cell lymphoma 9737/3
  - ALK-positive LBCL
  - ALK-positive plasmablastic B-cell lymphoma
  - Large B-cell lymphoma expressing the ALK kinase and lacking the t(2;5) translocation
- Acute myelomonocytic leukemia 9867/3
  - AMML
  - AMMoL
  - Acute myeloid leukemia, M4
  - FAB M4
- Acute Myeloid Leukemia with t(6;9)(p23;q34); DEK-NUP214 9865/3
- Acute basophilic leukemia 9870/3
- Acute biphenotypic leukemia 9805/3
  - Acute bilineal leukemia
  - Acute mixed lineage leukemia
  - Biclonal leukemia
  - Bilineal acute leukemia, Biphenotypic acute leukemia
  - Bilineal acute leukemia
  - Lineage infidelity
  - Lineage switches

Slide 11 - Slide 11



Slide 12 - Slide 12

The screenshot shows a web-based application window titled "ICD-O-3 Code List". The window has a menu bar with "File" and a toolbar with "Print...", "Export...", and "Back" buttons. A "Display List By" section contains two radio buttons: "ICD-O-3 Numeric Order" (unselected) and "Alphabetical by Preferred Name" (selected). The main content area displays a list of cancer codes and descriptions, including:

- ALK-positive large B-cell lymphoma 9737/3
  - ALK-positive LBCL
  - ALK-positive plasmablastic large B-cell lymphoma with the t(2;5) translocation
- Acute myelomonocytic leukemia
  - AMML
  - AMMoL
  - Acute myeloid leukemia FAB M4
- Acute Myeloid Leukemia with t(6;9)(p23,q34), DEK-NUP214 9865/3
- Acute basophilic leukemia 9870/3
- Acute biphenotypic leukemia 9805/3
  - Acute bilineal leukemia
  - Acute mixed lineage leukemia
  - Biclonal leukemia
  - Bilineal acute leukemia, Biphenotypic acute leukemia
  - Bilineal acute leukemia
  - Lineage infidelity
  - Lineage switches

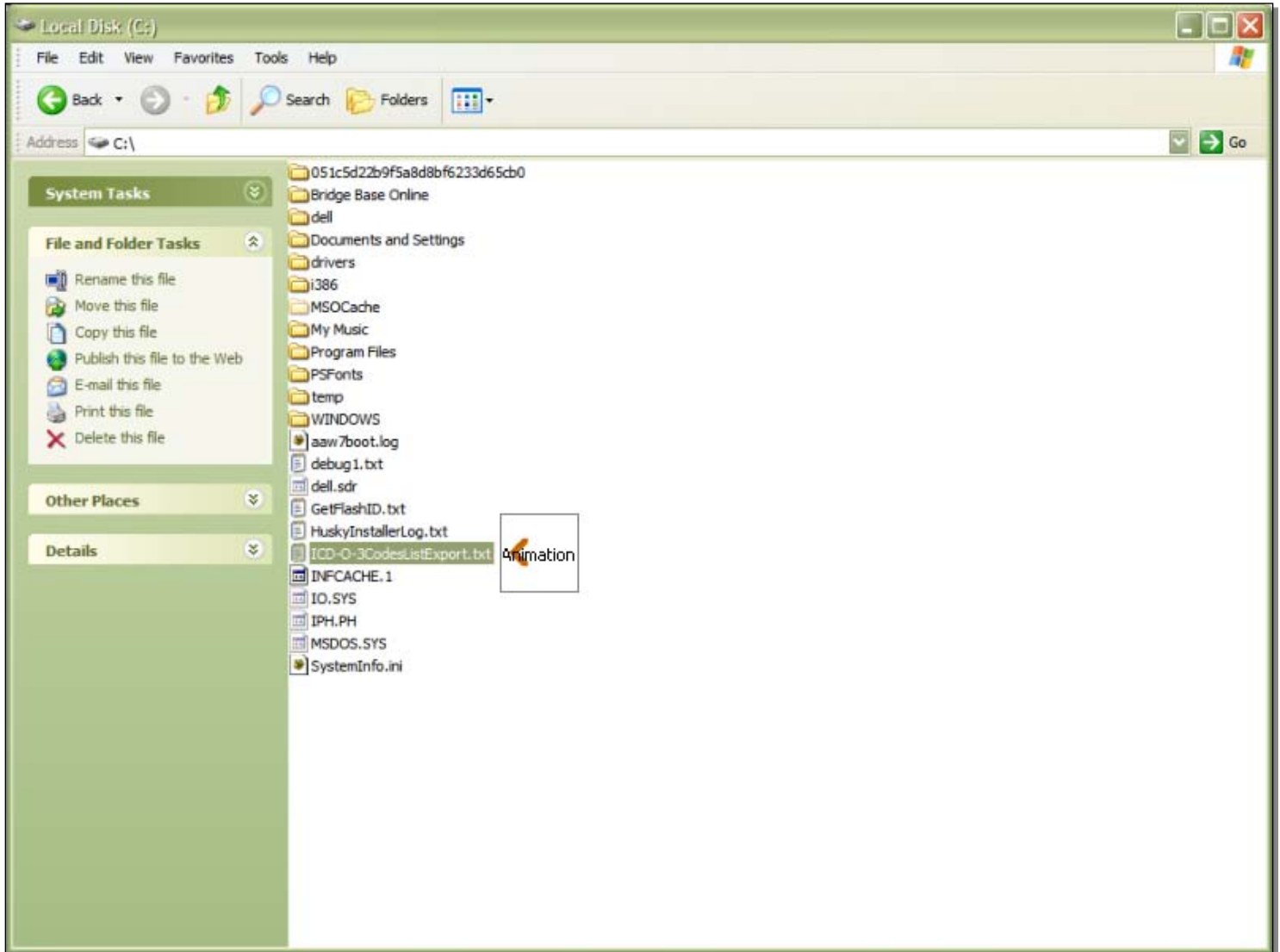
An "Export Result" dialog box is overlaid on the list, containing the text "Export file successfully created." and an "OK" button.

Slide 13 - Slide 13

The screenshot shows a window titled "ICD-O-3 Code List" with a "File" menu bar. Below the menu bar is a "Display List By" section with two radio buttons: "ICD-O-3 Numeric Order" (unselected) and "Alphabetical by Preferred Name" (selected). To the right of this section are three buttons: "Print...", "Export...", and "Back". The main area of the window contains a list of cancer codes and their descriptions, sorted alphabetically by preferred name. The list includes:

- ALK-positive large B-cell lymphoma 9737/3
  - ALK-positive LBCL
  - ALK-positive plasmablastic B-cell lymphoma
  - Large B-cell lymphoma expressing the ALK kinase and lacking the t(2;5) translocation
- Acute myelomonocytic leukemia 9867/3
  - AMML
  - AMMoL
  - Acute myeloid leukemia, M4
  - FAB M4
- Acute Myeloid Leukemia with t(6;9)(p23;q34); DEK-NUP214 9865/3
- Acute basophilic leukemia 9870/3
- Acute biphenotypic leukemia 9805/3
  - Acute bilineal leukemia
  - Acute mixed lineage leukemia
  - Biclonal leukemia
  - Bilineal acute leukemia, Biphenotypic acute leukemia
  - Bilineal acute leukemia
  - Lineage infidelity
  - Lineage switches

Slide 14 - Slide 14



Slide 15 - Slide 15

ICD-O-3 Code List

File

Display List By

ICD-O-3 Numeric Order

Alphabetical by Preferred Name

Print...

Export...

Back

ALK-positive large B-cell lymphoma 9737/3  
ALK-positive LBCL  
ALK-positive plasmablastic B-cell lymphoma  
Large B-cell lymphoma expressing the ALK kinase and lacking the t(2;5) translocation

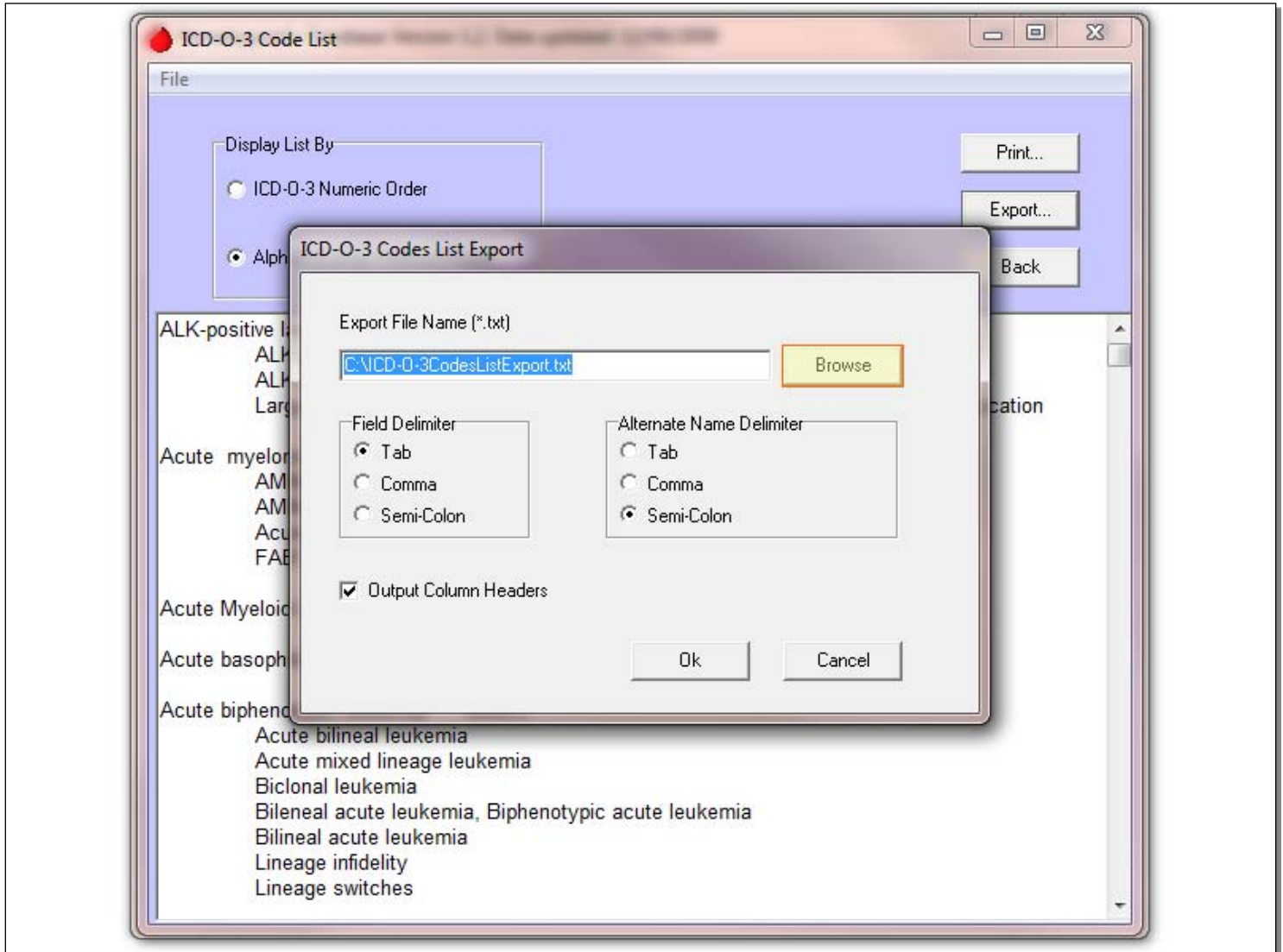
Acute myelomonocytic leukemia 9867/3  
AMML  
AMMoL  
Acute myeloid leukemia, M4  
FAB M4

Acute Myeloid Leukemia with t(6;9)(p23;q34); DEK-NUP214 9865/3

Acute basophilic leukemia 9870/3

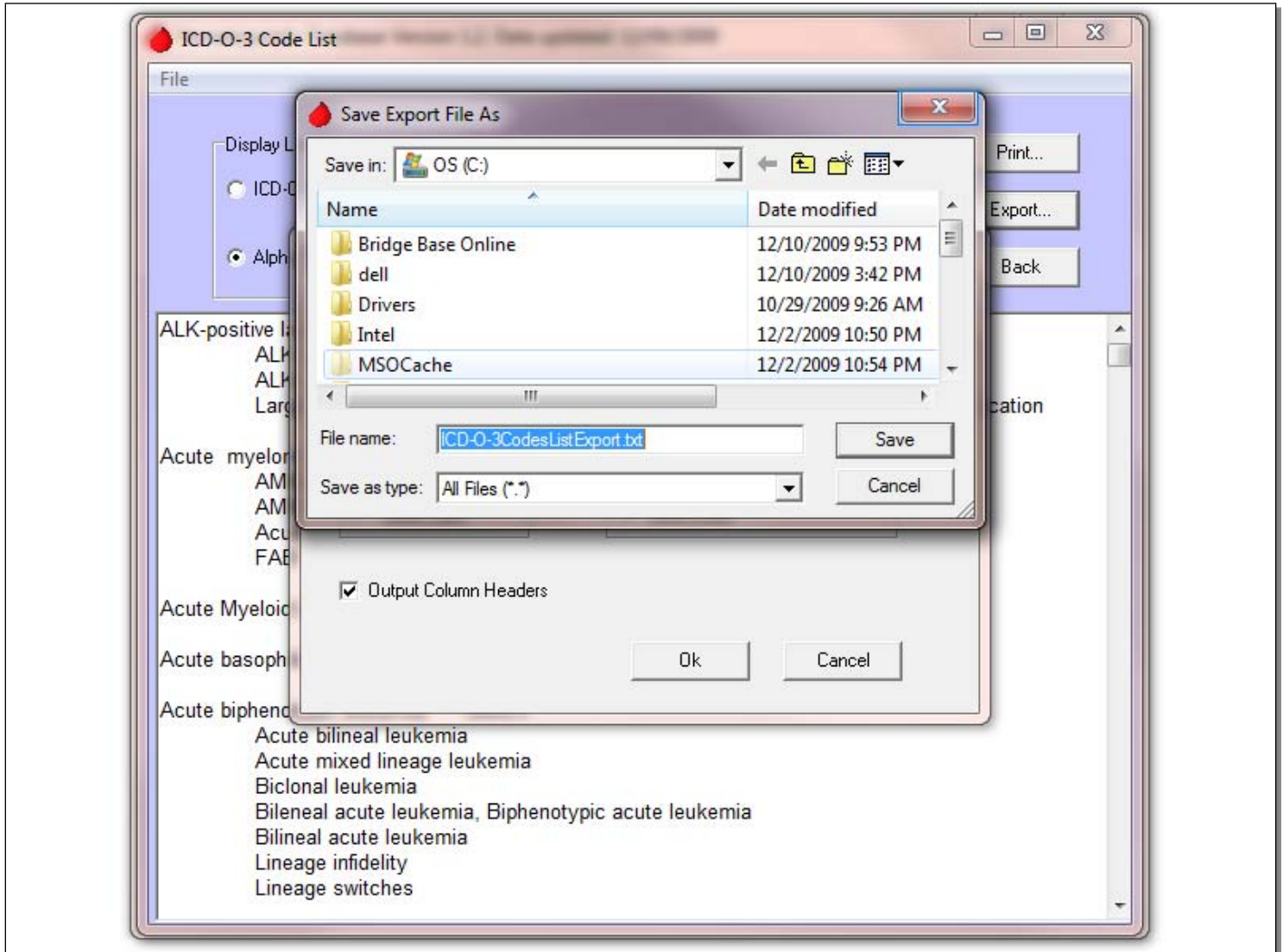
Acute biphenotypic leukemia 9805/3  
Acute bilineal leukemia  
Acute mixed lineage leukemia  
Biclonal leukemia  
Bilineal acute leukemia, Biphenotypic acute leukemia  
Bilineal acute leukemia  
Lineage infidelity  
Lineage switches

Slide 16 - Slide 16

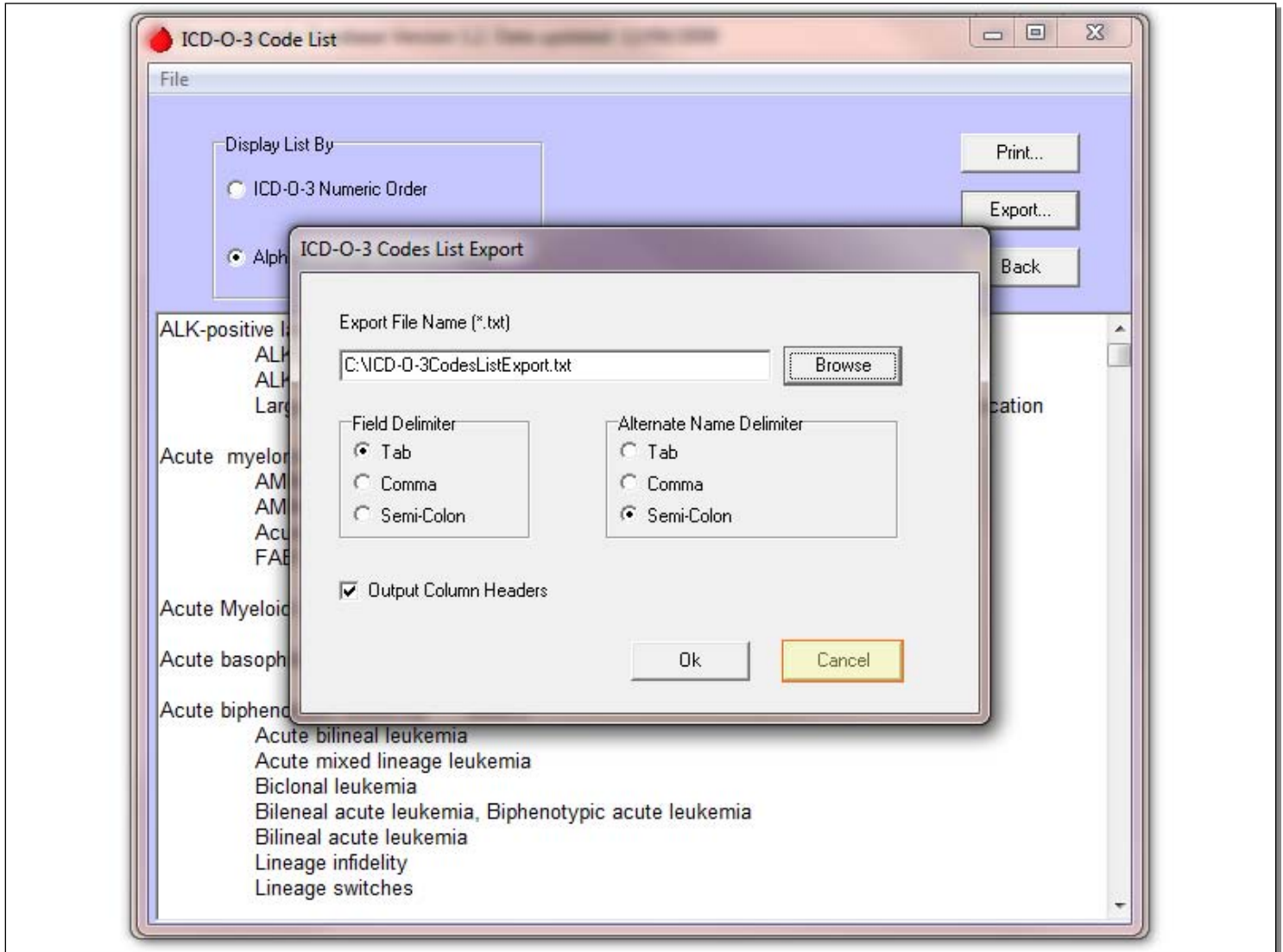




Slide 17 - Slide 17



Slide 18 - Slide 18



Slide 19 - Slide 19

The screenshot shows a software window titled "ICD-O-3 Code List". The window has a menu bar with "File" and a toolbar with "Print...", "Export...", and "Back" buttons. A "Display List By" section contains two radio buttons: "ICD-O-3 Numeric Order" (unselected) and "Alphabetical by Preferred Name" (selected). The main content area displays a list of medical codes and descriptions, including "ALK-positive large B-cell lymphoma 9737/3" and "Acute Myeloid Leukemia with t(6;9)(p23;q34), DEK/NUP214 9865/3". An "Export Result" dialog box is overlaid on the list, containing the text "Export failed." and an "OK" button.

Slide 20 - Slide 20

ICD-O-3 Code List

File

Display List By

ICD-O-3 Numeric Order

Alphabetical by Preferred Name

Print...

Export...

Back

ALK-positive large B-cell lymphoma	9737/3
ALK-positive LBCL	
ALK-positive plasmablastic B-cell lymphoma	
Large B-cell lymphoma expressing the ALK kinase and lacking the t(2;5) translocation	
Acute myelomonocytic leukemia	9867/3
AMML	
AMMoL	
Acute myeloid leukemia, M4	
FAB M4	
Acute Myeloid Leukemia with t(6;9)(p23;q34); DEK-NUP214	9865/3
Acute basophilic leukemia	9870/3
Acute biphenotypic leukemia	9805/3
Acute bilineal leukemia	
Acute mixed lineage leukemia	
Biclonal leukemia	
Bilineal acute leukemia, Biphenotypic acute leukemia	
Bilineal acute leukemia	
Lineage infidelity	
Lineage switches	

Slide 21 - Slide 21

ICD-O-3 Code List

File

Display List By

ICD-O-3 Numeric Order

Alphabetical by Preferred Name

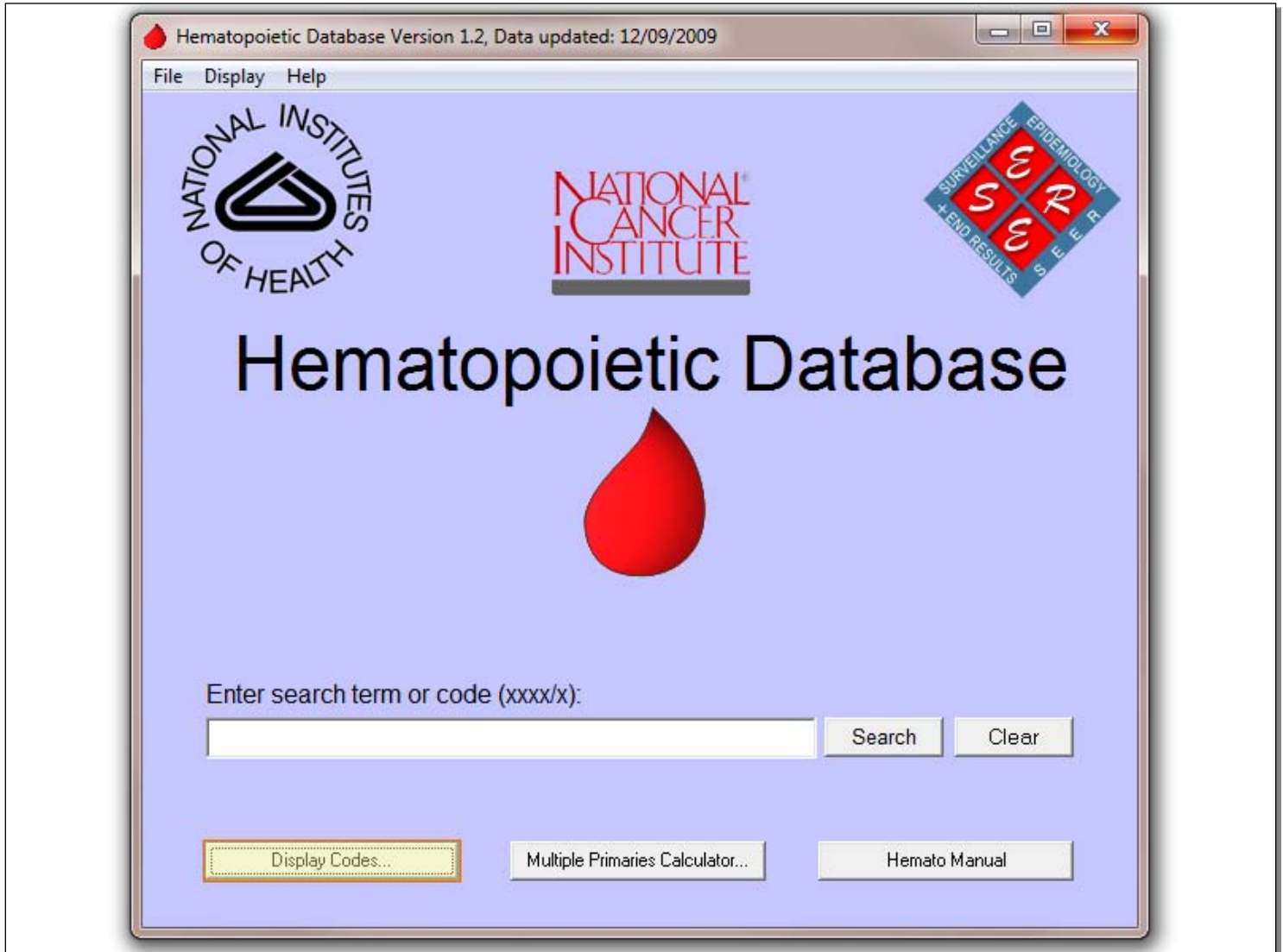
Print...

Export...

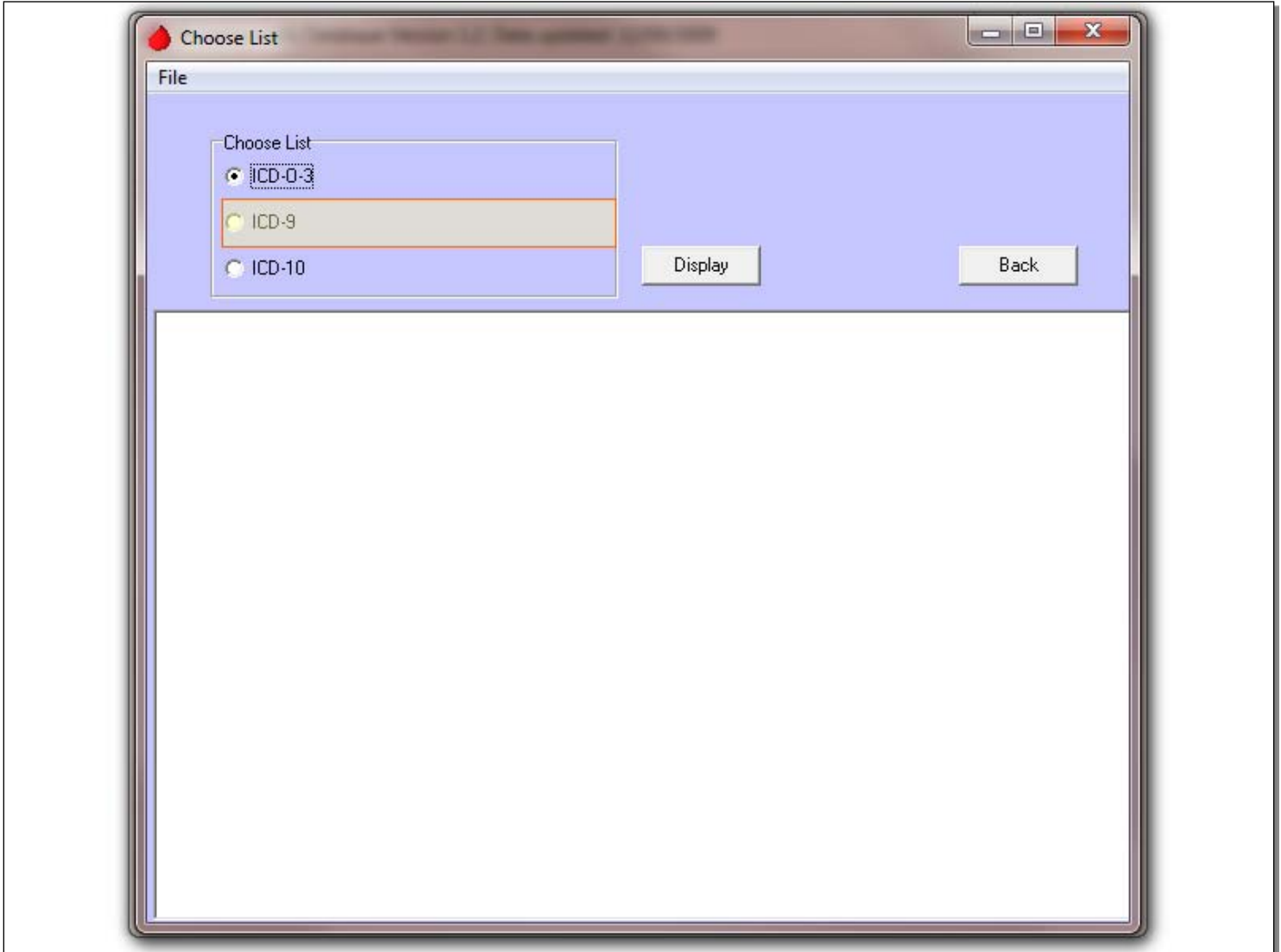
Back

ALK-positive large B-cell lymphoma	9737/3
ALK-positive LBCL	
ALK-positive plasmablastic B-cell lymphoma	
Large B-cell lymphoma expressing the ALK kinase and lacking the t(2;5) translocation	
Acute myelomonocytic leukemia	9867/3
AMML	
AMMoL	
Acute myeloid leukemia, M4	
FAB M4	
Acute Myeloid Leukemia with t(6;9)(p23;q34); DEK-NUP214	9865/3
Acute basophilic leukemia	9870/3
Acute biphenotypic leukemia	9805/3
Acute bilineal leukemia	
Acute mixed lineage leukemia	
Biclonal leukemia	
Bilineal acute leukemia, Biphenotypic acute leukemia	
Bilineal acute leukemia	
Lineage infidelity	
Lineage switches	

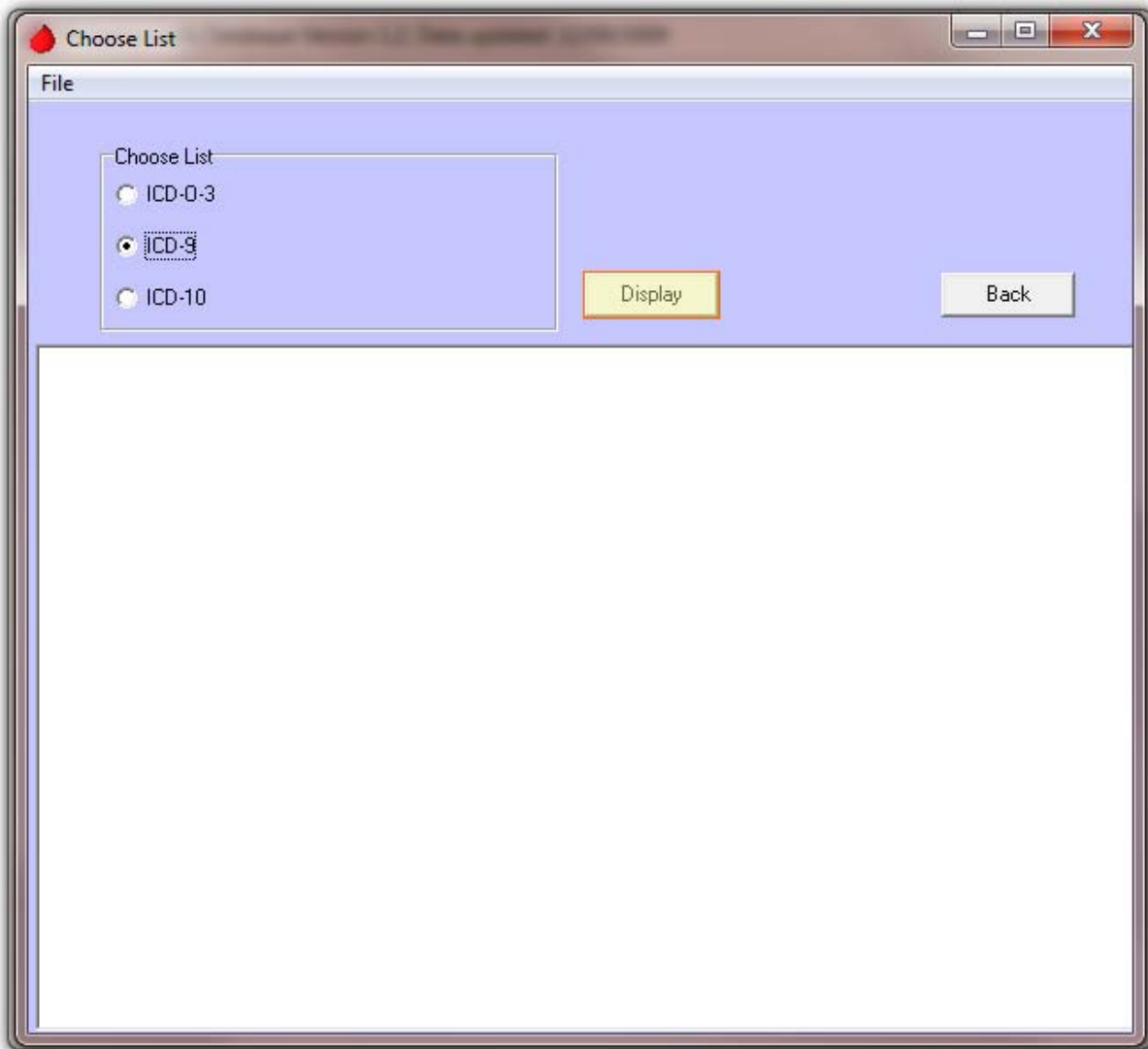
Slide 22 - Slide 22



Slide 23 - Slide 23



Slide 24 - Slide 24





Slide 25 - Slide 25

The screenshot shows a web application window titled "ICD 9 Code List". The window has a menu bar with "File" and a toolbar with "Print...", "Export...", and "Back" buttons. A "Display List By" section contains three radio button options: "ICD-9 Codes Only", "ICD-O-3 Codes (Numeric Order)" (which is selected), and "ICD-9 Codes with Related ICD-O-3 Codes". An arrow labeled "Animation" points to the "ICD-O-3 Codes (Numeric Order)" option. Below the menu, a list of ICD codes and descriptions is displayed, with several items highlighted in yellow:

- 9590/3 Malignant lymphoma, NOS
  - 202.8 Other lymphoma
- 9591/3 Non-Hodgkin lymphoma, NOS
  - 202.8 Other lymphoma
- 9596/3 B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma
  - 201.6 Mixed cellularity
  - 202.8 Other lymphoma
- 9597/3 Primary cutaneous follicle centre lymphoma
  - 202.8 Other lymphoma
- 9650/3 Classical Hodgkin lymphoma
  - 201.9 Hodgkin's disease, unspecified
- 9651/3 Lymphocyte-rich classical Hodgkin lymphoma
  - 201.4 Lymphocytic-histiocytic predominance
- 9652/3 Mixed cellularity classical Hodgkin lymphoma
  - 201.6 Mixed cellularity
- 9653/3 Lymphocyte-depleted classical Hodgkin lymphoma

Slide 26 - Slide 26

The screenshot shows a window titled "ICD 9 Code List" with a "File" menu bar. Below the menu bar, there is a "Display List By" section with three radio button options: "ICD-9 Codes Only", "ICD-D-3 Codes (Numeric Order)", and "ICD-9 Codes with Related ICD-D-3 Codes". To the right of these options are three buttons: "Print...", "Export...", and "Back". The main content area displays a list of ICD-9 codes and their corresponding descriptions, with some items highlighted by orange boxes:

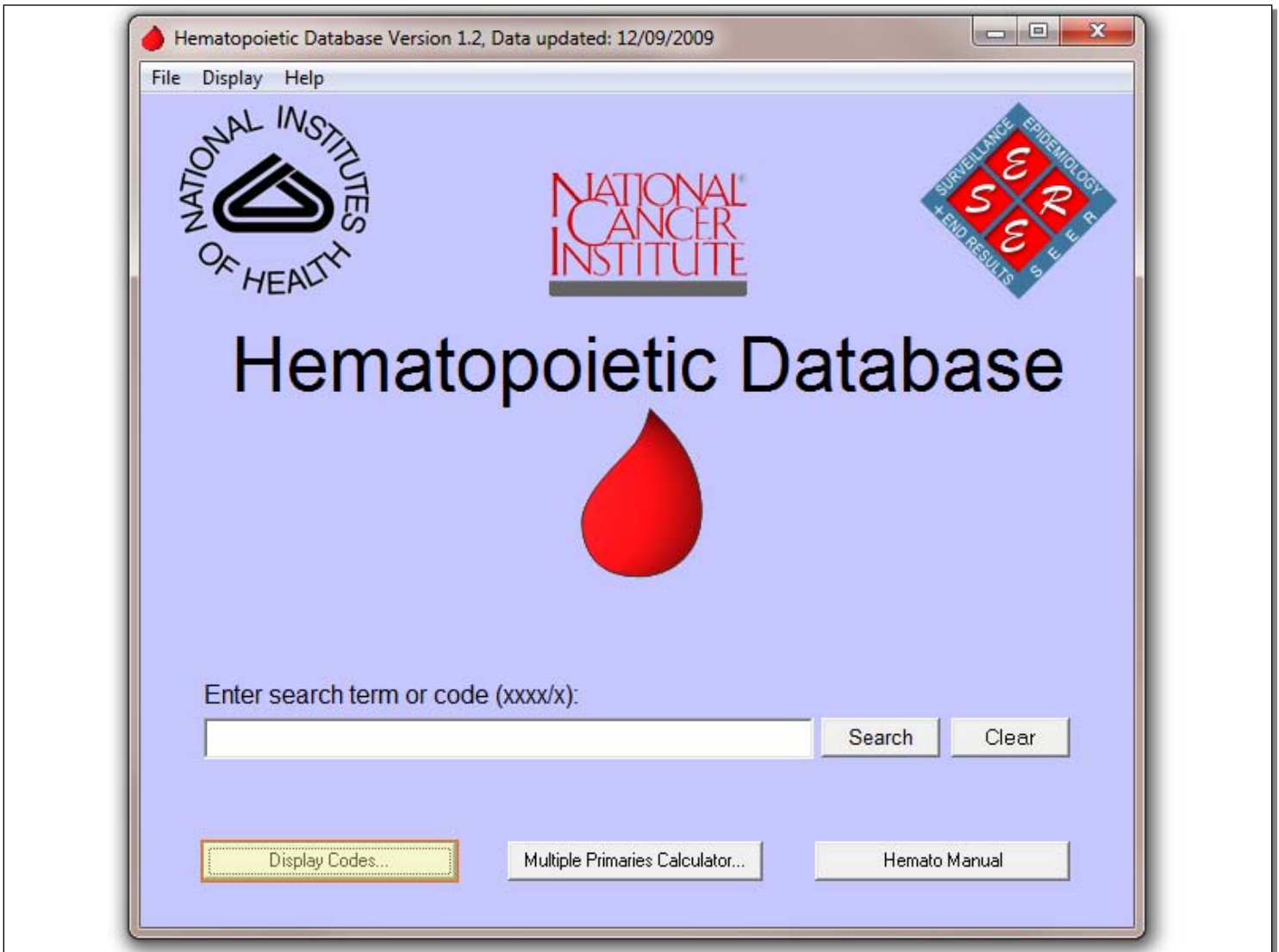
- 200.0 Reticulosarcoma
  - 9679/3 Primary mediastinal (thymic) large B-cell lymphoma
  - 9755/3 Histiocytic sarcoma
- 200.1 Lymphosarcoma
  - 9726/3 Primary cutaneous gamma delta T-cell lymphoma
  - 9728/3 Precursor B lymphoblastic lymphoma
  - 9729/3 Precursor T-cell lymphoblastic lymphoma, NOS
- 200.2 Burkitt's tumor or lymphoma
  - 9687/3 Burkitt lymphoma
- 200.3 Marginal zone lymphoma
  - 9689/3 Splenic marginal zone lymphoma
  - 9699/3 Extranodal marginal zone lymphoma of mucosal-associated lymphoid tissue (MALT lymphoma)
- 200.4 Mantle cell lymphoma
  - 9673/3 Mantle cell lymphoma
- 200.6 Anaplastic large cell lymphoma
  - 9714/3 Anaplastic large cell lymphoma, ALK-positive
- 200.7 Large cell lymphoma

Slide 27 - Slide 27

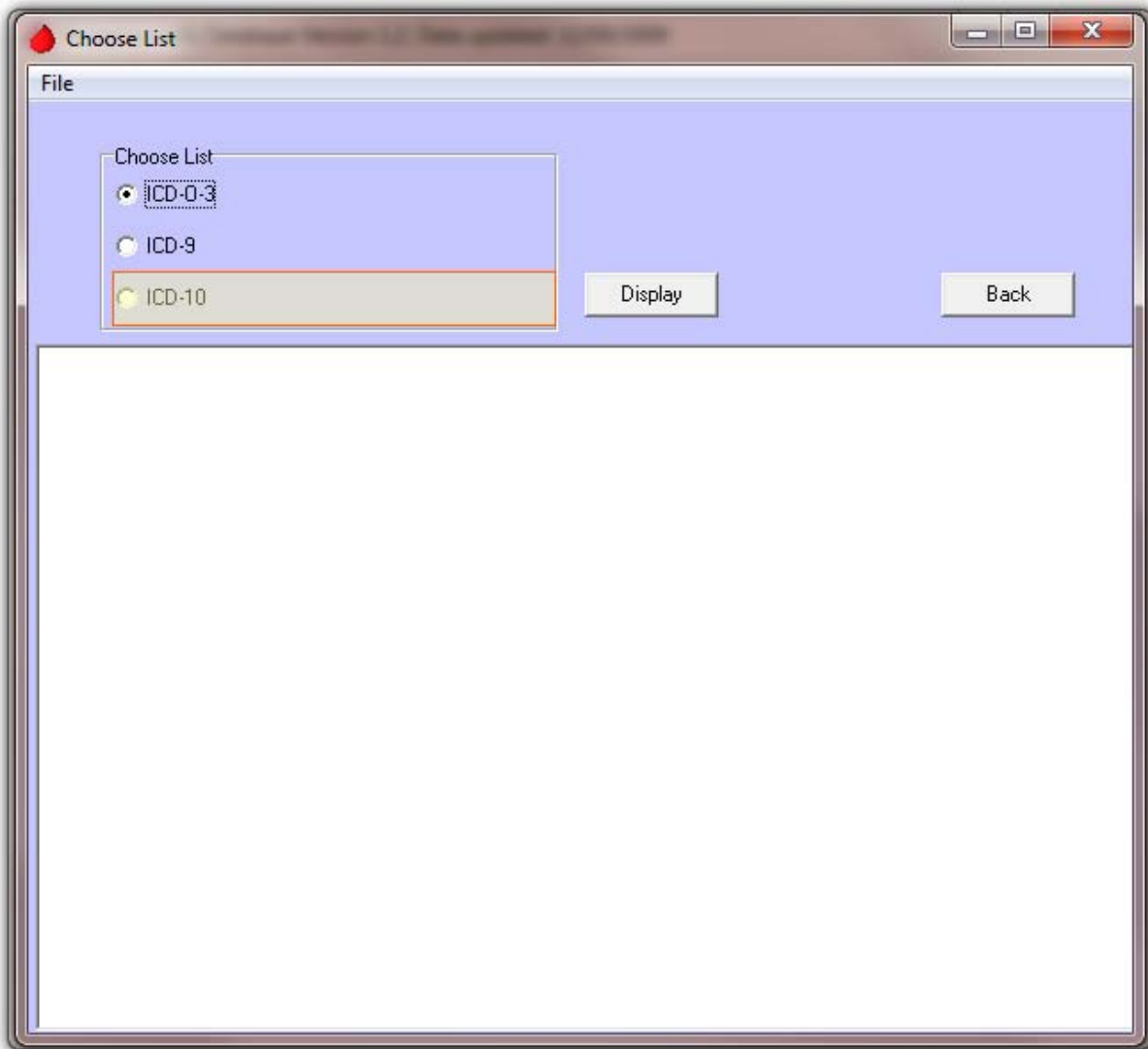
The screenshot shows a window titled "ICD 9 Code List" with a menu bar containing "File". Below the menu bar is a "Display List By" section with three radio button options: "ICD-9 Codes Only" (selected), "ICD-O-3 Codes (Numeric Order)", and "ICD-9 Codes with Related ICD-O-3 Codes". To the right of these options are three buttons: "Print...", "Export...", and "Back". The main area of the window displays a list of ICD-9 codes and their corresponding descriptions:

- 200.0 Reticulosarcoma
- 200.1 Lymphosarcoma
- 200.2 Burkitt's tumor or lymphoma
- 200.3 Marginal zone lymphoma
- 200.4 Mantle cell lymphoma
- 200.6 Anaplastic large cell lymphoma
- 200.7 Large cell lymphoma
- 200.8 Other named variants, lymphoma
- 201.4 Lymphocytic-histiocytic predominance
- 201.5 Nodular sclerosis
- 201.6 Mixed cellularity
- 201.7 Lymphocytic depletion

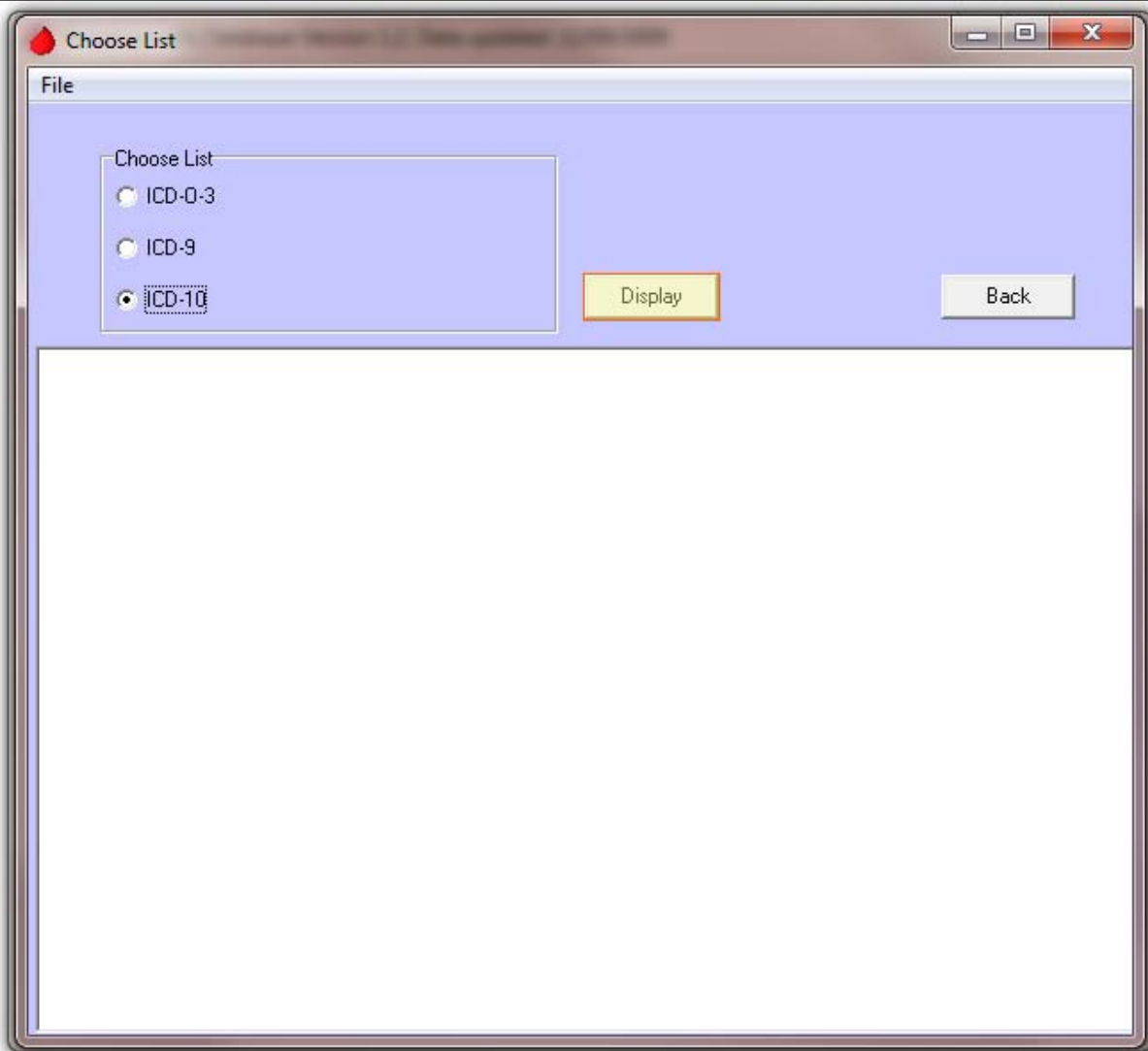
Slide 28 - Slide 28



Slide 29 - Slide 29



Slide 30 - Slide 30



Slide 31 - Slide 31

ICD 10 Code List

File

Display List By

- ICD-10 Codes Only
- ICD-O-3 Codes (Numeric Order)
- ICD-10 Codes with Related ICD-O-3 Codes

Print...

Export...

Back

9590/3 Malignant lymphoma, NOS  
C85.9 Non-Hodgkin's lymphoma, unspecified type

9591/3 Non-Hodgkin lymphoma, NOS  
C85.9 Non-Hodgkin's lymphoma, unspecified type

9596/3 B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell lymphoma and classical Hodgkin lymphoma  
C81.2 Hodgkin's disease, mixed cellularity  
C85.9 Non-Hodgkin's lymphoma, unspecified type

9597/3 Primary cutaneous follicle centre lymphoma  
C85.7 Other specified types of non-Hodgkin's lymphoma

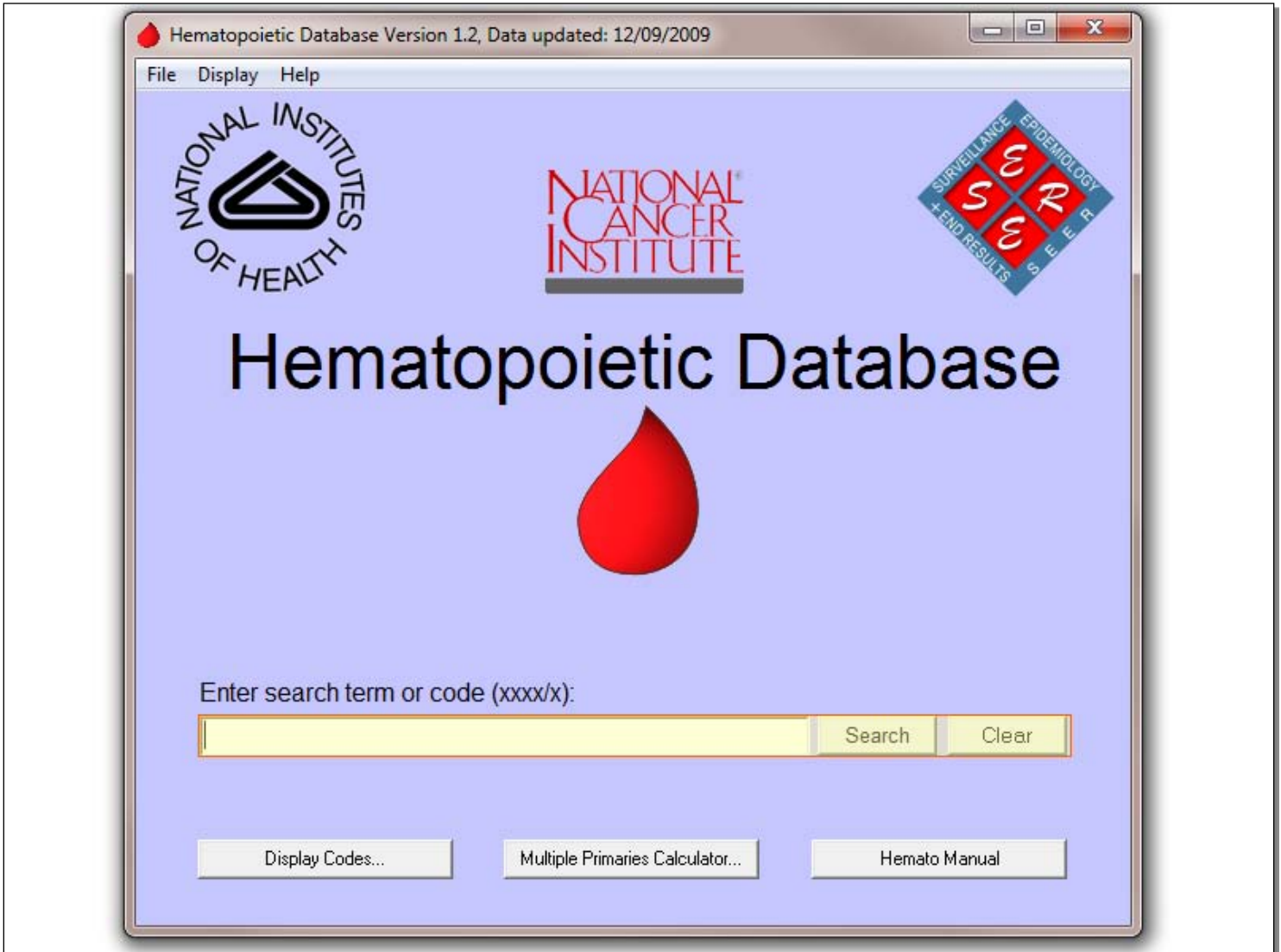
9650/3 Classical Hodgkin lymphoma  
C81.9 Hodgkin's disease, unspecified

9651/3 Lymphocyte-rich classical Hodgkin lymphoma  
C81.0 Hodgkin's disease, lymphocytic predominance

9652/3 Mixed cellularity classical Hodgkin lymphoma  
C81.2 Hodgkin's disease, mixed cellularity

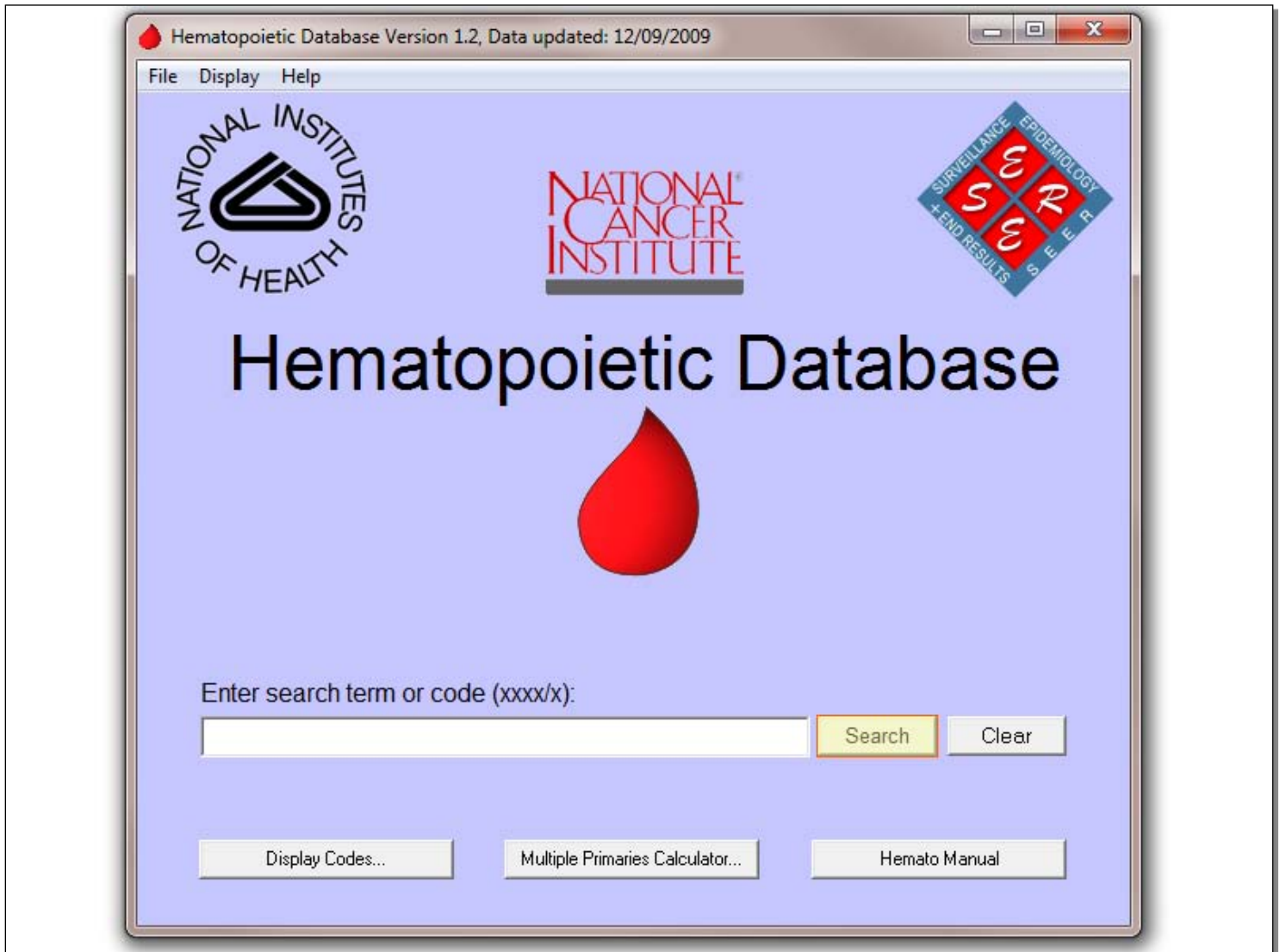
9653/3 Lymphocyte-depleted classical Hodgkin lymphoma

Slide 32 - Slide 32





Slide 33 - Slide 33




Slide 34 - Slide 34

Search Results
[-] [Max] [X]


File Help

Your search for " 9741/3" found 1 results.  
Select your disease of Interest


Matched Term	ICD-O-3 Code	Reportable
Systemic mastocytosis	9741/3	Yes



Animation



Animation



Animation

**ICD-O-3 Code:** 9741/3      **Preferred Term:** Systemic mastocytosis

**Definition**

Accumulation of increased numbers of mast cells in the tissues other than skin, such as the liver, spleen, bone marrow, stomach, and small intestines. Hematopoietic disorder; proliferation of mast cells with accumulation in one or more extracutaneous organ systems, with or without skin infiltration. Presentation meets criteria for systemic

**Alternate Names**

Aggressive systemic mastocytosis  
Malignant mastocytosis  
SM  
SM-AHNMD  
Systemic mastocytosis with associated clonal hematological non-mast cell lineage dis

Select the fields you wish to display:

All

Disease genetics data

Treatments

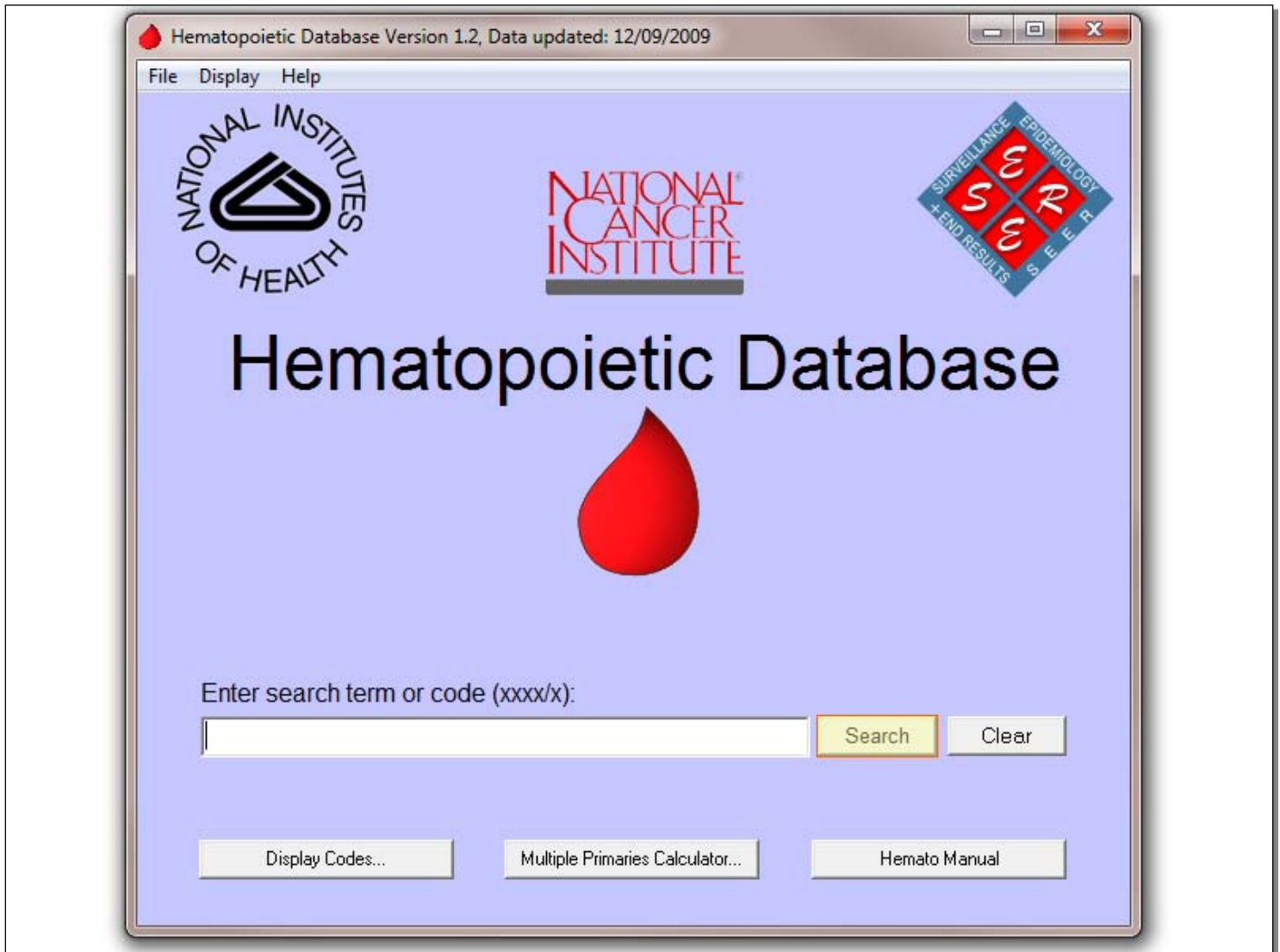
Definitive diagnostic methods

Disease Immunophenotyping

Transformations

Back
Display
Print Screen

Slide 35 - Slide 35



Slide 36 - Slide 36

**Search Results**

Your search for " sm" found 72 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
SM	9741/3	Yes
Smoldering myeloma	9732/3	Yes
Smoldering plasma cell myeloma	9732/3	Yes
SM-AHNMD	9741/3	Yes
Small lymphocytic lymphoma	9670/3	Yes
Smoldering leukemia	9989/3	Yes

**ICD-O-3 Code:** 9741/3      **Preferred Term:** Systemic mastocytosis

**Definition**

Accumulation of increased numbers of mast cells in the tissues other than skin, such as the liver, spleen, bone marrow, stomach, and small intestines. Hematopoietic disorder; proliferation of mast cells with accumulation in one or more extracutaneous organ systems, with or without skin infiltration. Presentation meets criteria for systemic

**Alternate Names**

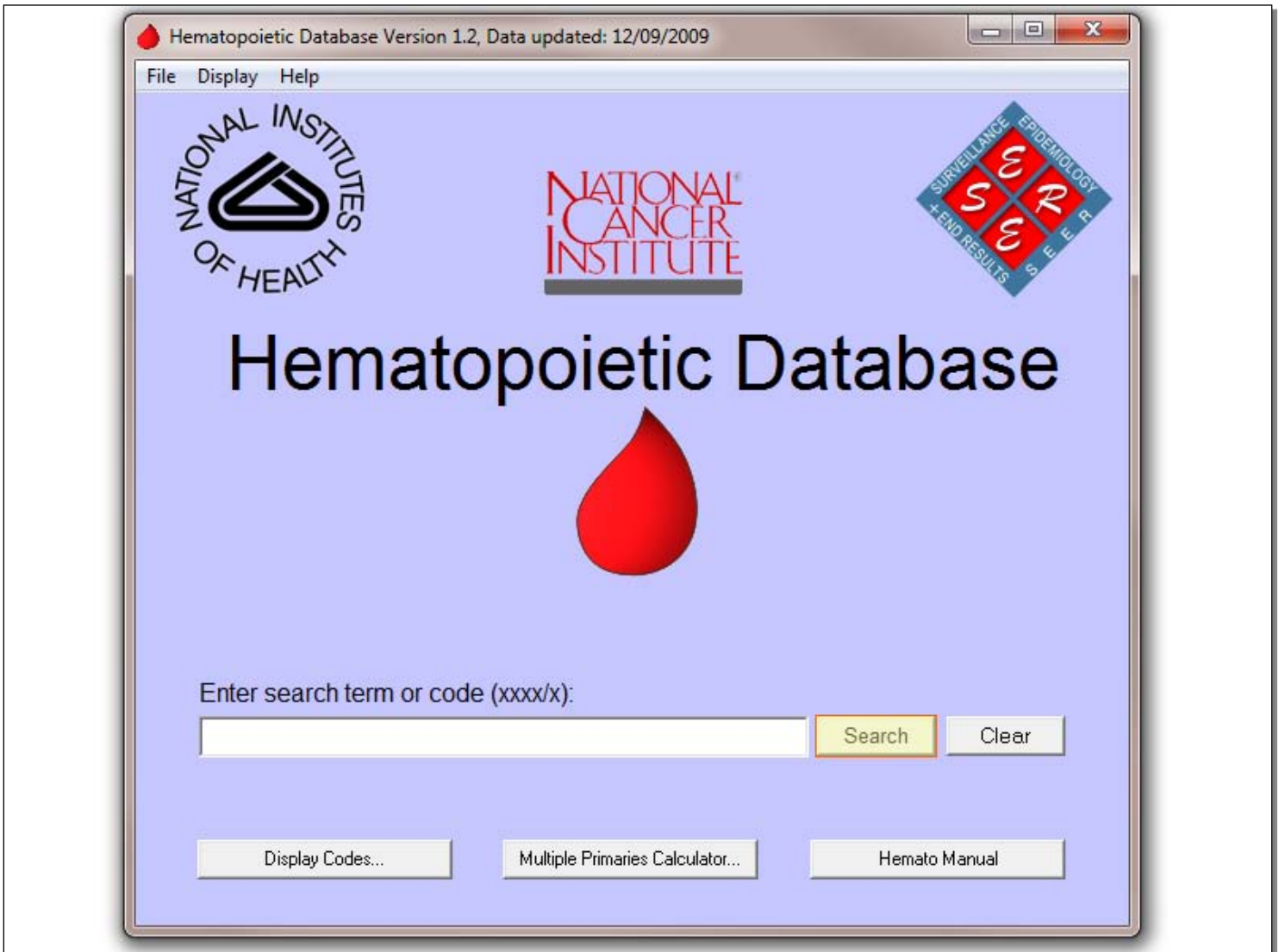
Aggressive systemic mastocytosis  
Malignant mastocytosis  
SM  
SM-AHNMD  
Systemic mastocytosis with associated clonal hematological non-mast cell lineage disease

Select the fields you wish to display:

All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

Buttons: Back, Display, Print Screen

Slide 37 - Slide 37



Slide 38 - Slide 38

The screenshot shows a window titled "Search Results" with a menu bar containing "File" and "Help". Below the menu bar, a message states: "Your search for 'mastocytosis' found 9 results. Select your disease of Interest". To the right of this message are two dropdown menus, both labeled "Animation" with a downward arrow. Below this is a table with three columns: "Matched Term", "ICD-O-3 Code", and "Reportable". The table contains six rows of data. The first row is "Mastocytosis" with "N/A" and "No". The second row is "Systemic mastocytosis" with "9741/3" and "Yes". The third row is "Aggressive systemic mastocytosis" with "9741/3" and "Yes". The fourth row is "Malignant mastocytosis" with "9741/3" and "Yes". The fifth row is "Systemic mastocytosis with associated clonal, hematological non-m" with "9741/3" and "Yes". The sixth row is "Cutaneous mastocytosis" with "N/A" and "No". At the bottom of the window, there are three buttons: "Back", "Display" (with a downward arrow), and "Print Screen".

Matched Term	ICD-O-3 Code	Reportable
Mastocytosis	N/A	No
Systemic mastocytosis	9741/3	Yes
Aggressive systemic mastocytosis	9741/3	Yes
Malignant mastocytosis	9741/3	Yes
Systemic mastocytosis with associated clonal, hematological non-m	9741/3	Yes
Cutaneous mastocytosis	N/A	No

Slide 39 - Slide 39

● Search Results
 \_ □ X

File Help

Your search for " **mastocytosis**" found 9 results.  
 Select your disease of interest

Matched Term	ICD-O-3 Code	Reportable
Mastocytosis	N/A	No
Systemic mastocytosis	9741/3	Yes
Aggressive systemic mastocytosis	9741/3	Yes
Malignant mastocytosis	9741/3	Yes
Systemic mastocytosis with associated clonal, hematological non-m	9741/3	Yes
Cutaneous mastocytosis	N/A	No

**ICD-O-3 Code:** 9741/3      **Preferred Term:** Systemic mastocytosis

**Definition**

Accumulation of increased numbers of mast cells in the tissues other than skin, such as the liver, spleen, bone marrow, stomach, and small intestines.Hematopoietic disorder:proliferation of mast cells with accumulation in one or more extracutaneous organ systems, with or without skin infiltration. Presentation meets criteria for systemic

**Alternate Names**

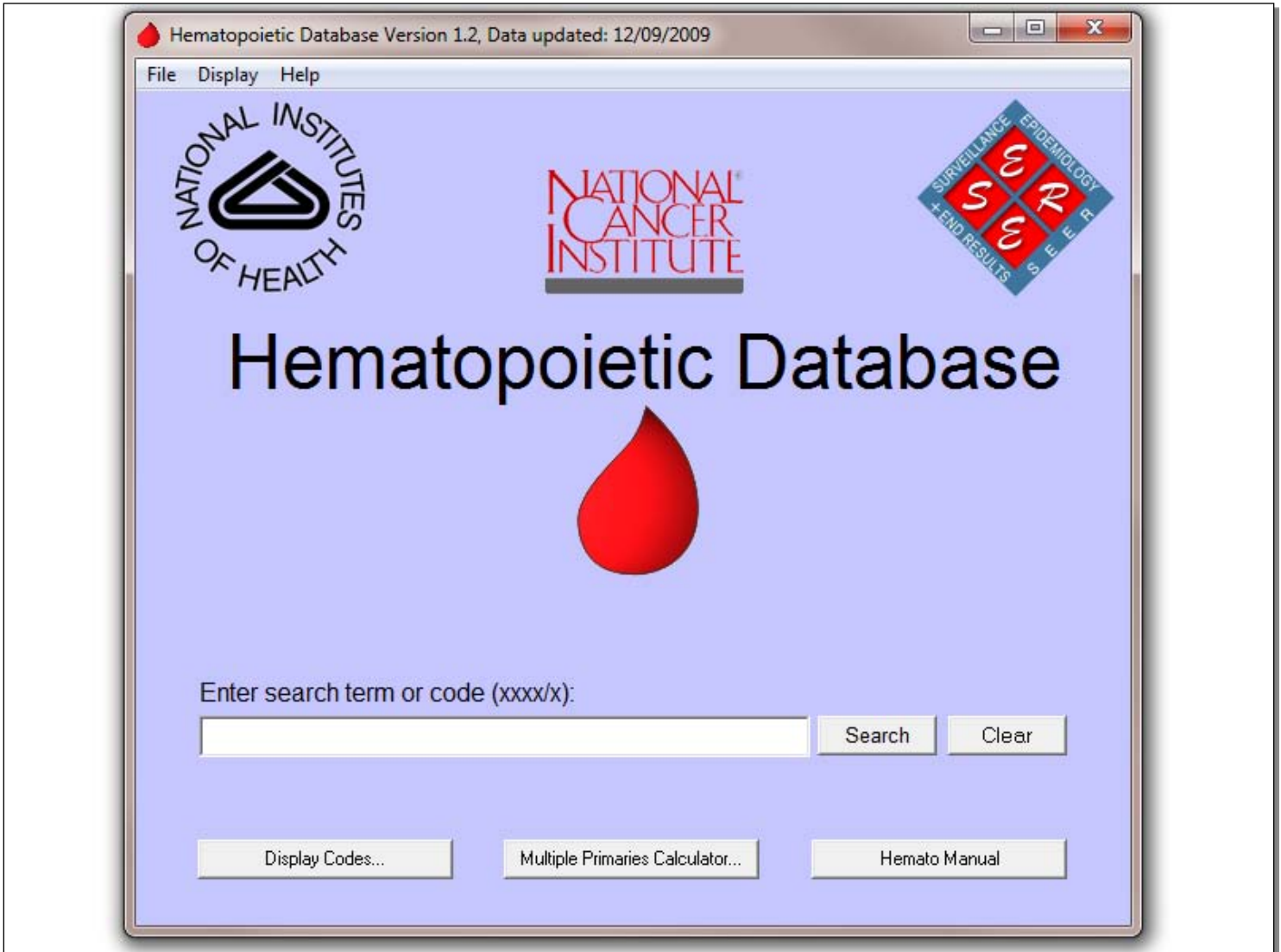
Aggressive systemic mastocytosis  
 Malignant mastocytosis  
 SM  
 SM-AHNMD  
 Systemic mastocytosis with associated clonal, hematological non-mast cell lineage dis

Select the fields you wish to display:

<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

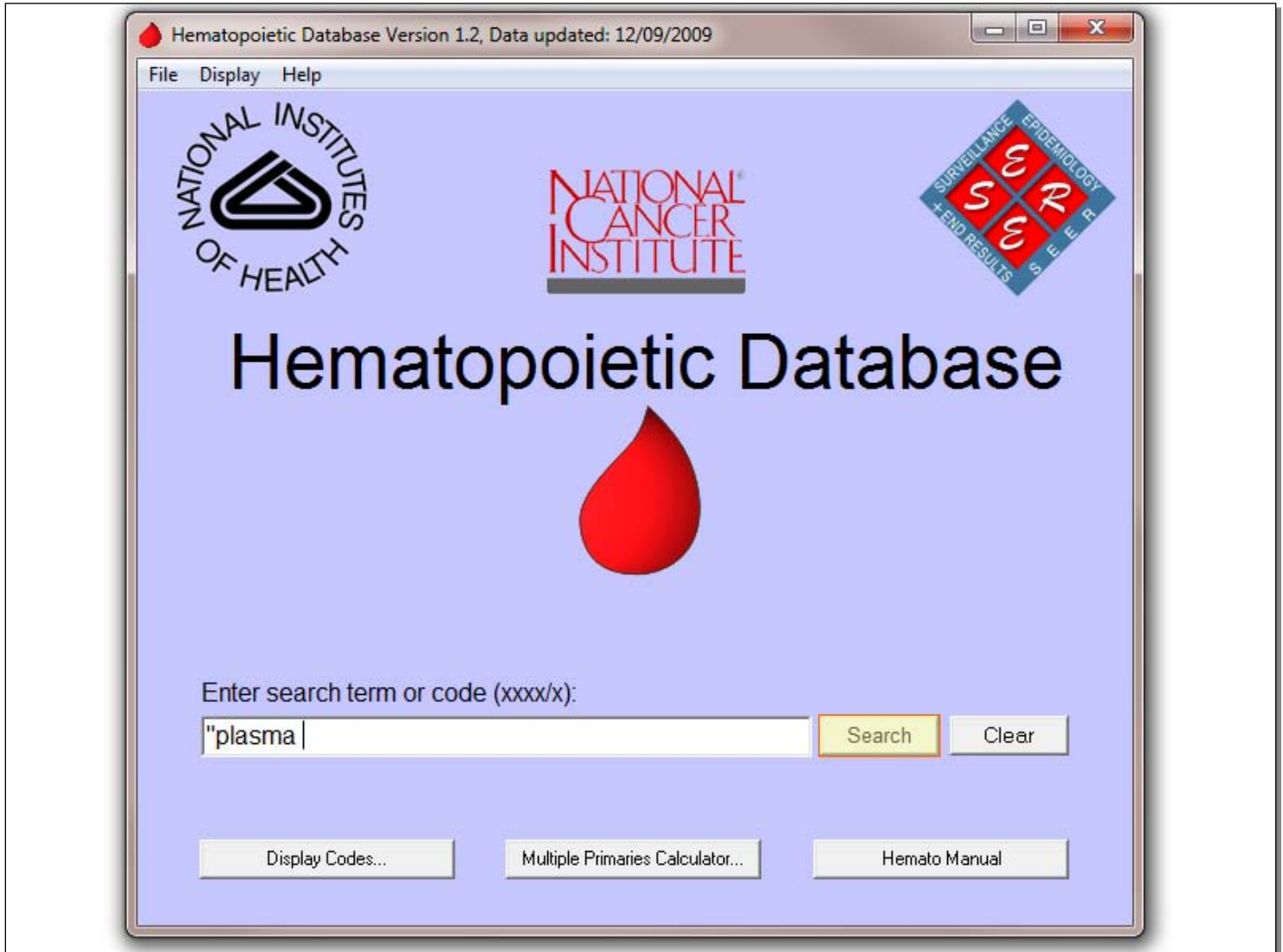
Back
Display
Print Screen

Slide 40 - Slide 40

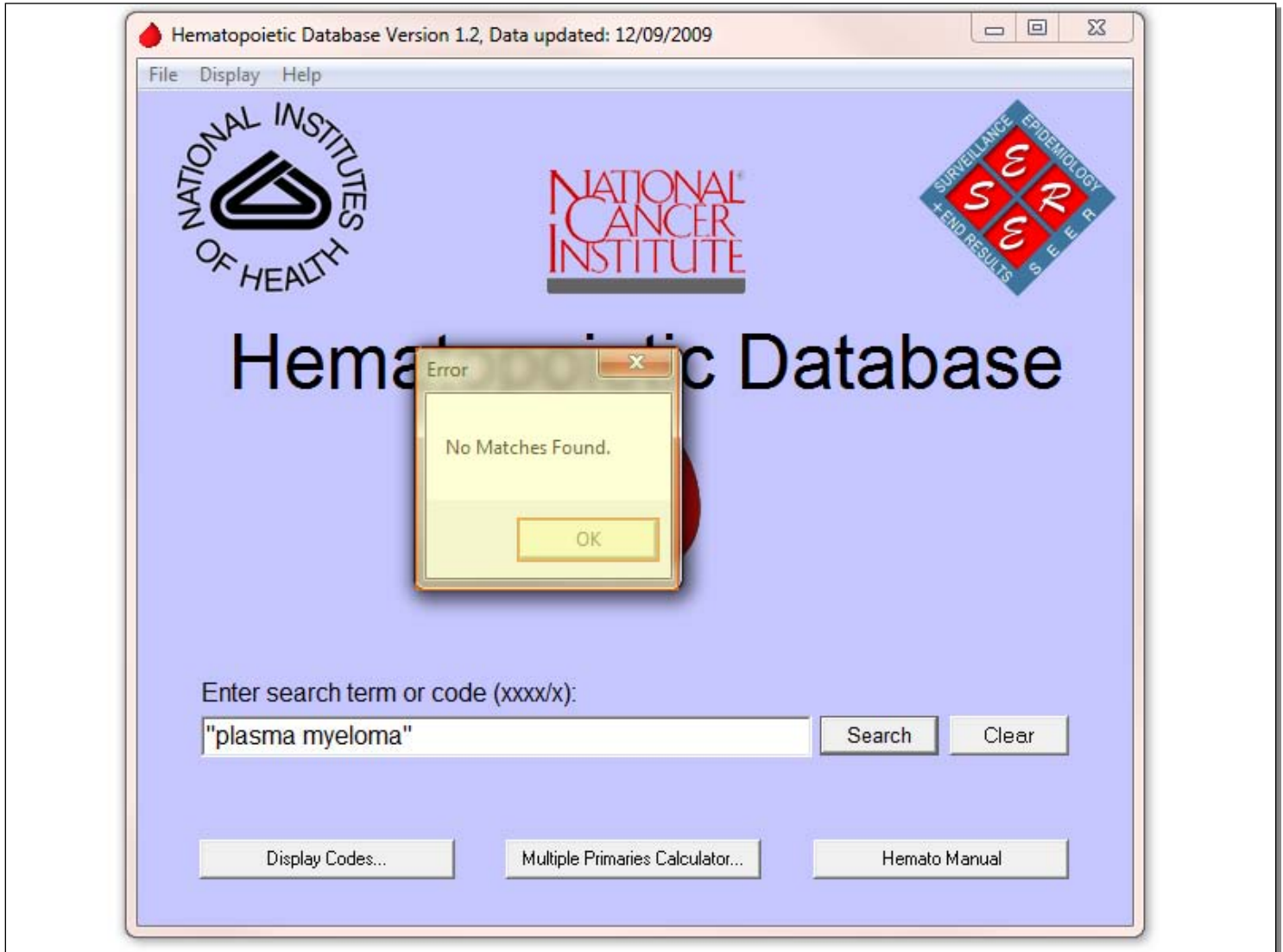




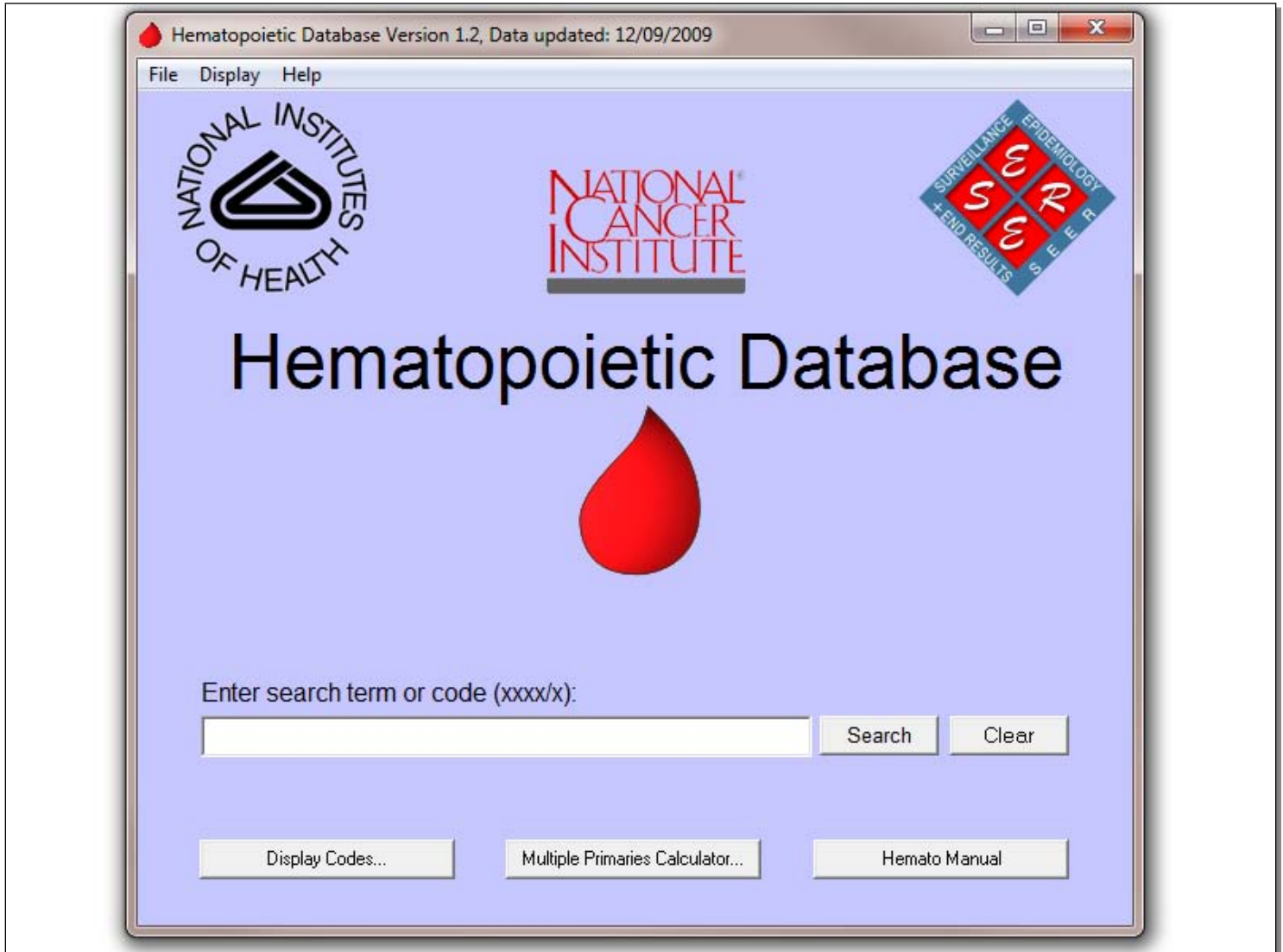
Slide 41 - Slide 41



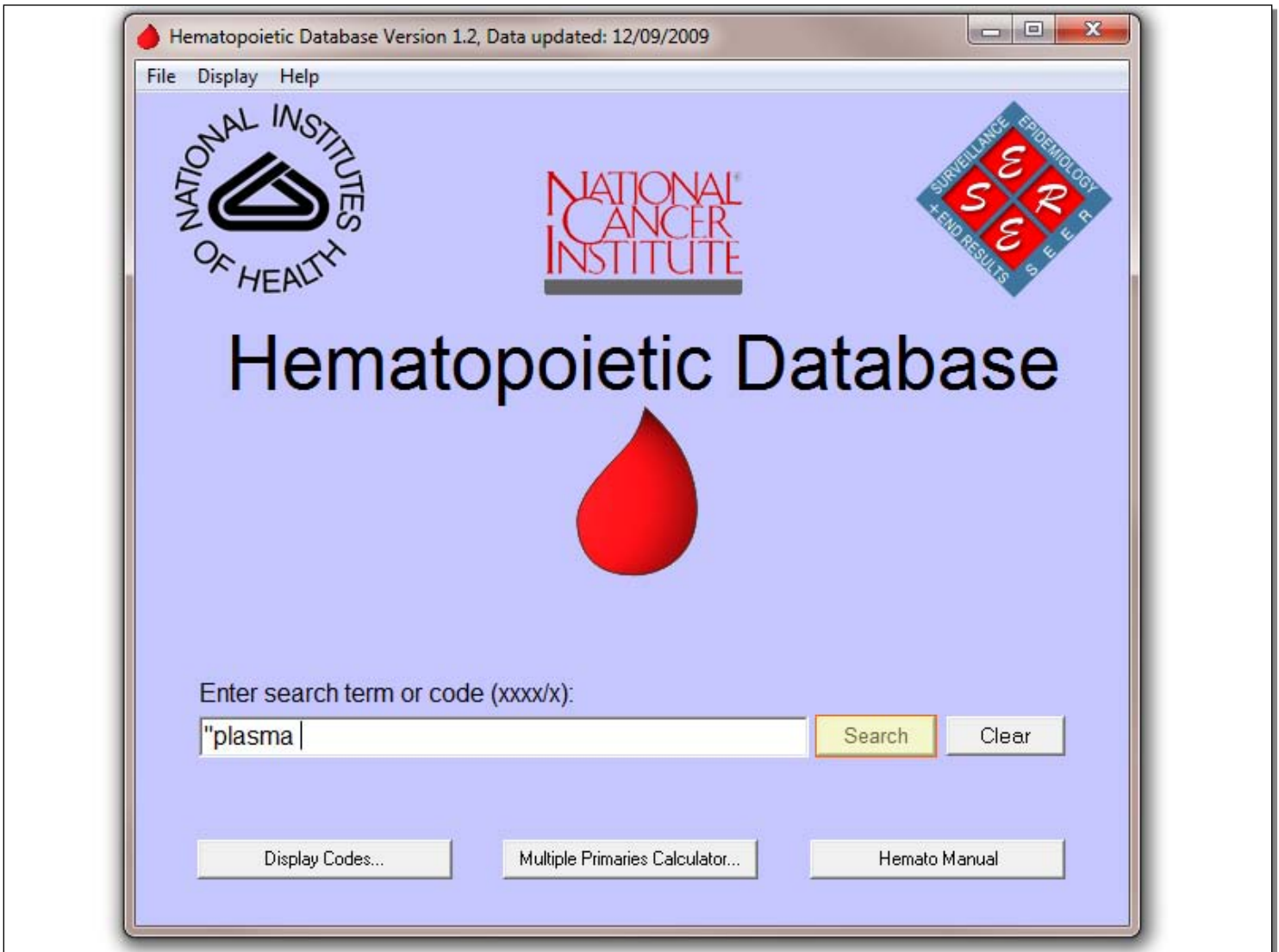
Slide 42 - Slide 42



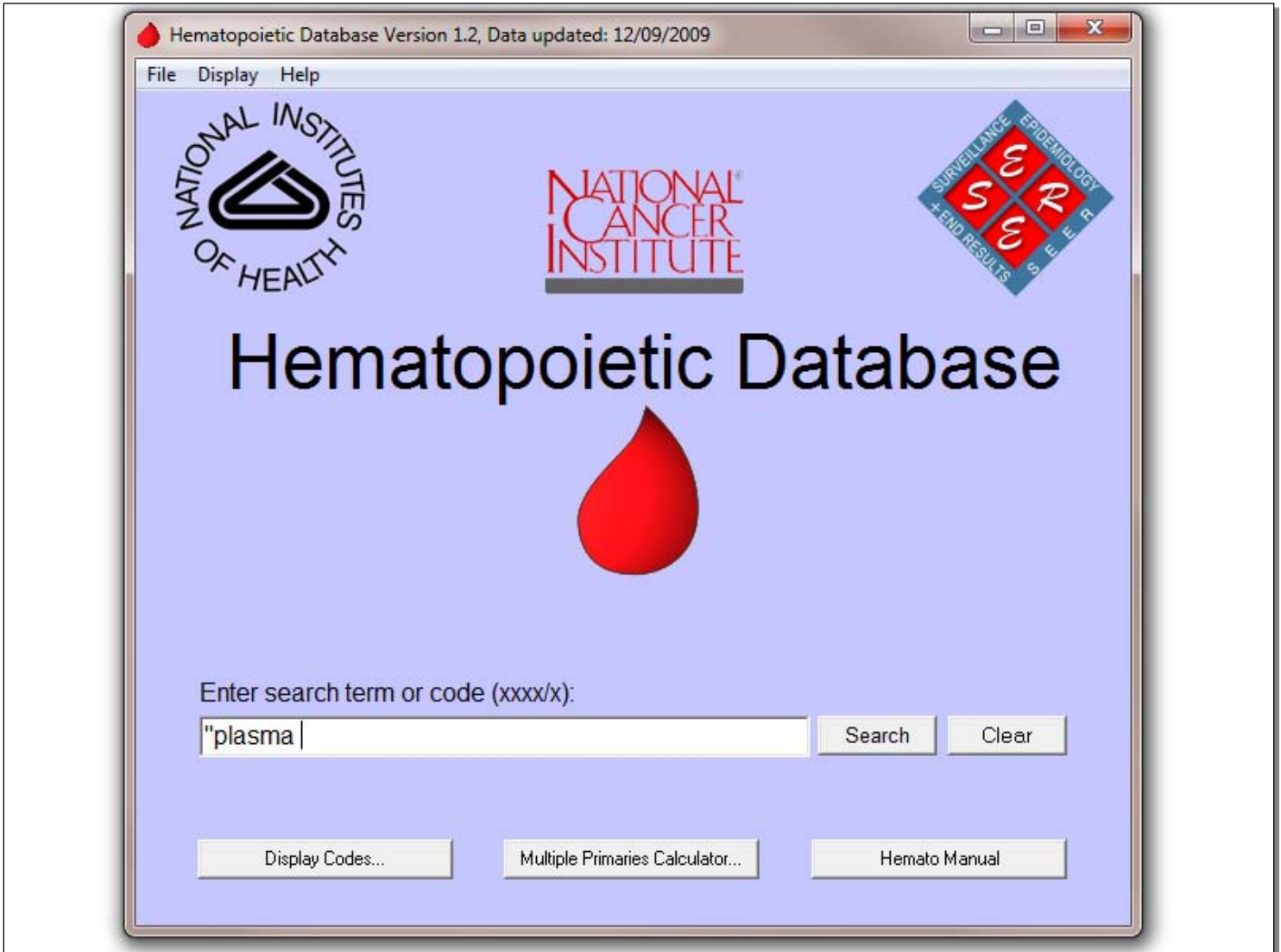
Slide 43 - Slide 43



Slide 44 - Slide 44



Slide 45 - Slide 45



Slide 46 - Slide 46

**Search Results**

File Help

Your search for " "plasma cell"" found 11 results.  
Select your disease of interest

Matched Term	ICD-O-3 Code	Reportable
Plasma cell leukemia	9733/3	Yes
Plasma cell dyscrasia	9733/3	Yes
Plasma cell myeloma	9732/3	Yes
Plasma cell tumor	9731/3	Yes
Secondary plasma cell leukemia	9732/3	Yes
Smoldering plasma cell myeloma	9732/3	Yes

**ICD-O-3 Code:** 9733/3      **Preferred Term:** Plasma cell leukemia

**Definition**

Circulating peripheral blood plasma cells exceeding  $2 \times 10$  to the 9th power/liter or 20% of peripheral blood white cells. May occur at time of diagnosis (primary PCL) or evolve as a terminal complication during the course of plasma cell myeloma (secondary PCL).

**Alternate Names**

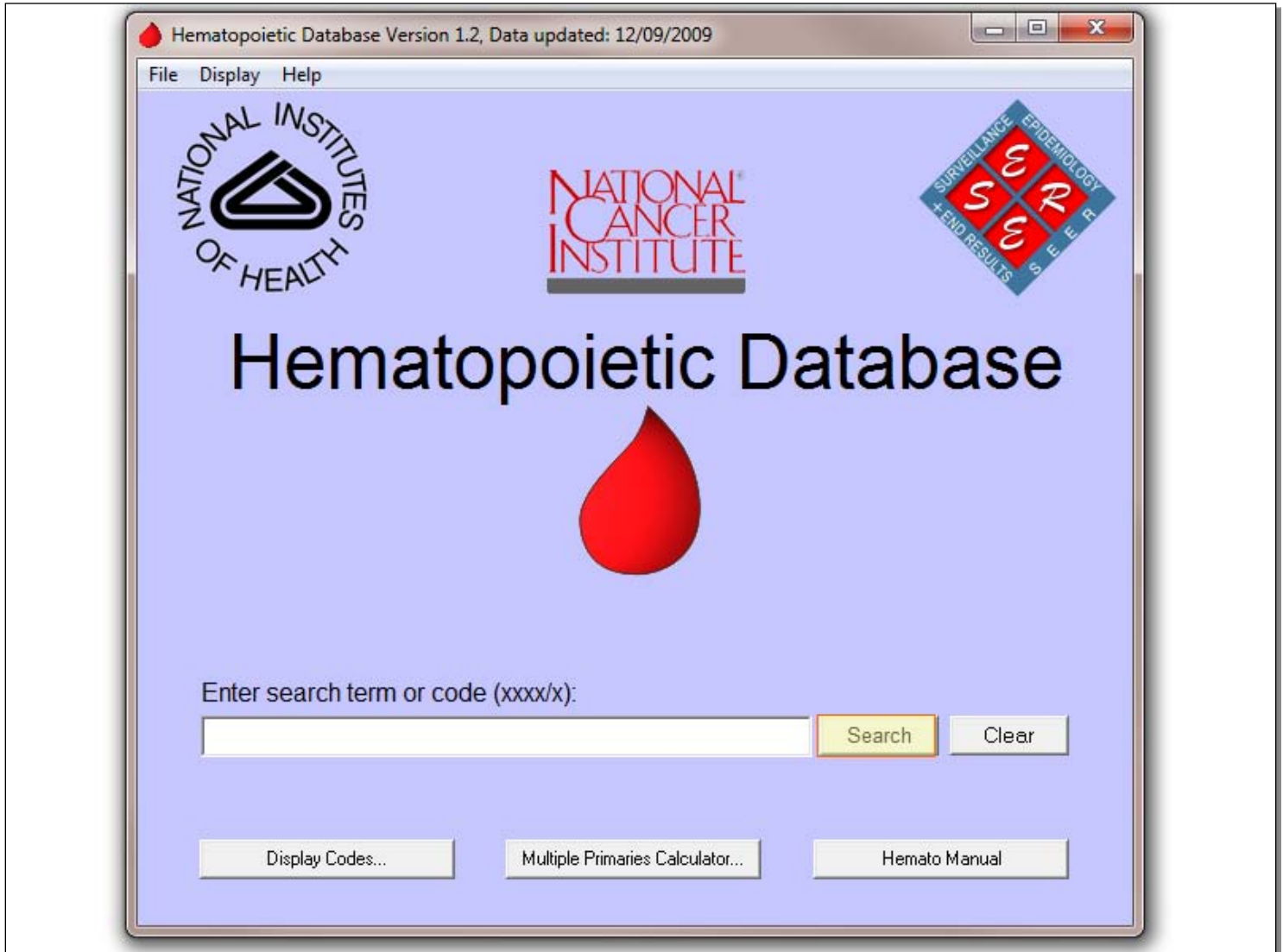
PCL  
Plasma cell dyscrasia  
Plasmacytic leukemia  
Primary PCL

Select the fields you wish to display:

All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

[Back](#)      [Display](#)      [Print Screen](#)

Slide 47 - Slide 47





Slide 48 - Slide 48

**Search Results**

Your search for "malignant lymphoma" found 122 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
Malignant lymphoma, small B lymphocytic, NOS	9670/3	Yes
Non-Hodgkin lymphoma, NOS	9591/3	Yes
Diffuse large B-cell lymphoma (DLBCL)	9680/3	Yes
Malignant lymphoma, diffuse, NOS	9591/3	Yes
Malignant lymphoma, non-cleaved cell, NOS	9591/3	Yes
Malignant lymphoma, undifferentiated cell type, NOS	9591/3	Yes

**ICD-O-3 Code:** 9670/3      **Preferred Term:** Malignant lymphoma, small B lymphocytic, NOS

**Definition**

Neoplasm of monomorphic small round B lymphocytes admixed with prolymphocytes and paraimmunoblasts, in peripheral blood, marrow, nodes, usually expressing CD5, CD23. Small lymphocytic lymphoma and chronic lymphocytic leukemia considered ends of continuous spectrum in which lymphadenopathy or peripheral blood

**Alternate Names**

B-SLL  
Malignant lymphoma, lymphocytic, NOS  
Malignant lymphoma, lymphocytic, diffuse, NOS  
Malignant lymphoma, lymphocytic, well differentiated, diffuse  
Malignant lymphoma, small cell diffuse

Select the fields you wish to display:

All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

Back      Display      Print Screen



Slide 49 - Slide 49

**Search Results**

Your search for "malignant lymphoma" found 122 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
8p11 stem cell leukemia/lymphoma syndrome	9967/3	Yes
ALK-positive large B-cell lymphoma	9737/3	Yes
Acute lymphoblastic leukemia-lymphoma, NOS	9835/3	Yes
Adult T-cell leukemia/lymphoma	9837/3	Yes
Adult T-cell leukemia/lymphoma (HTLV-1 positive)	9827/3	Yes
Aggressive NK-cell leukemia/lymphoma	9948/3	Yes

**ICD-O-3 Code:** 9670/3      **Preferred Term:** Malignant lymphoma, small B lymphocytic, NOS

**Definition**

Neoplasm of monomorphic small round B lymphocytes admixed with prolymphocytes and paraimmunoblasts, in peripheral blood, marrow, nodes, usually expressing CD5, CD23. Small lymphocytic lymphoma and chronic lymphocytic leukemia considered ends of continuous spectrum in which lymphadenopathy or peripheral blood

**Alternate Names**

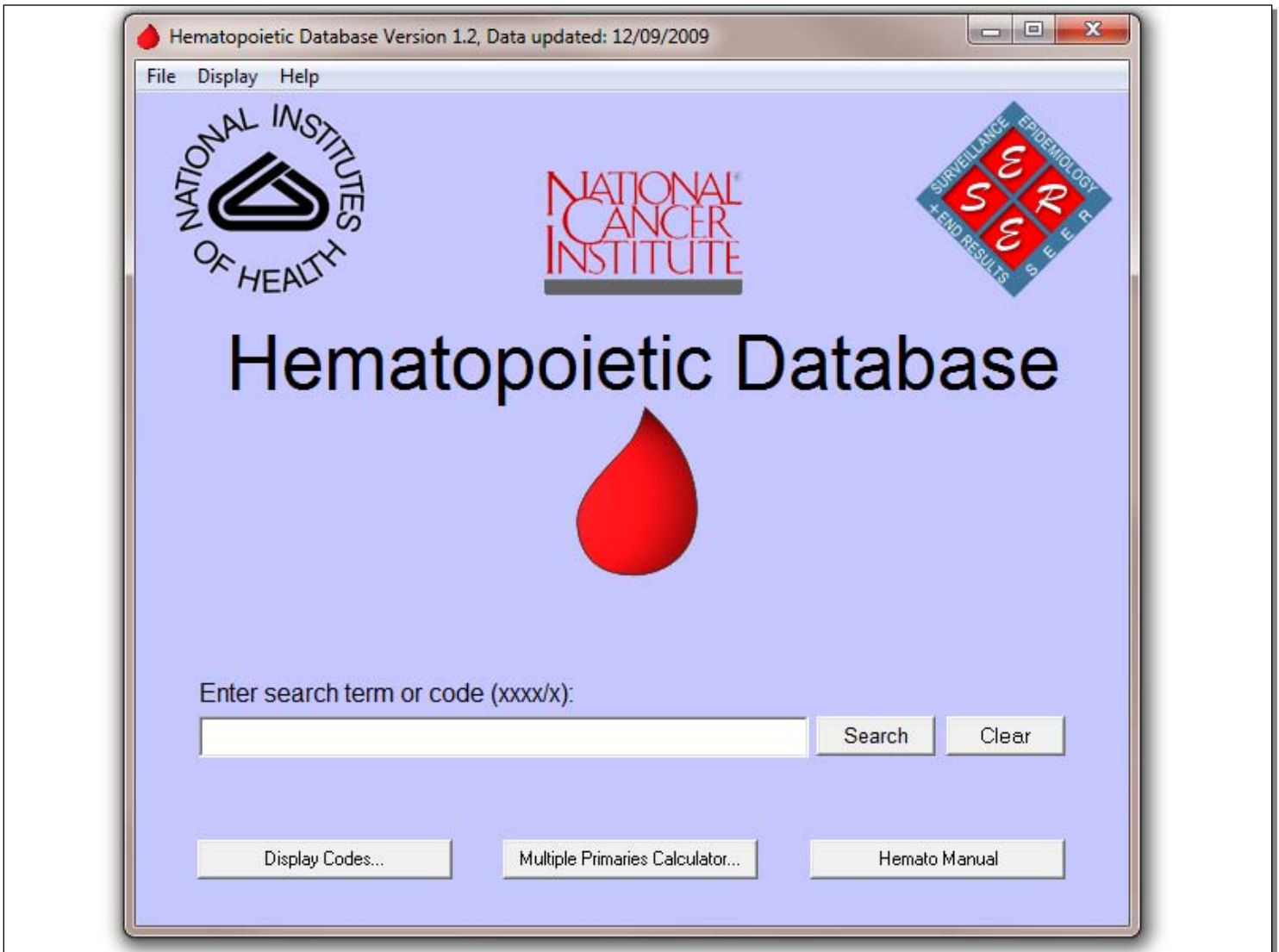
B-SLL  
Malignant lymphoma, lymphocytic, NOS  
Malignant lymphoma, lymphocytic, diffuse, NOS  
Malignant lymphoma, lymphocytic, well differentiated, diffuse  
Malignant lymphoma, small cell diffuse

Select the fields you wish to display:

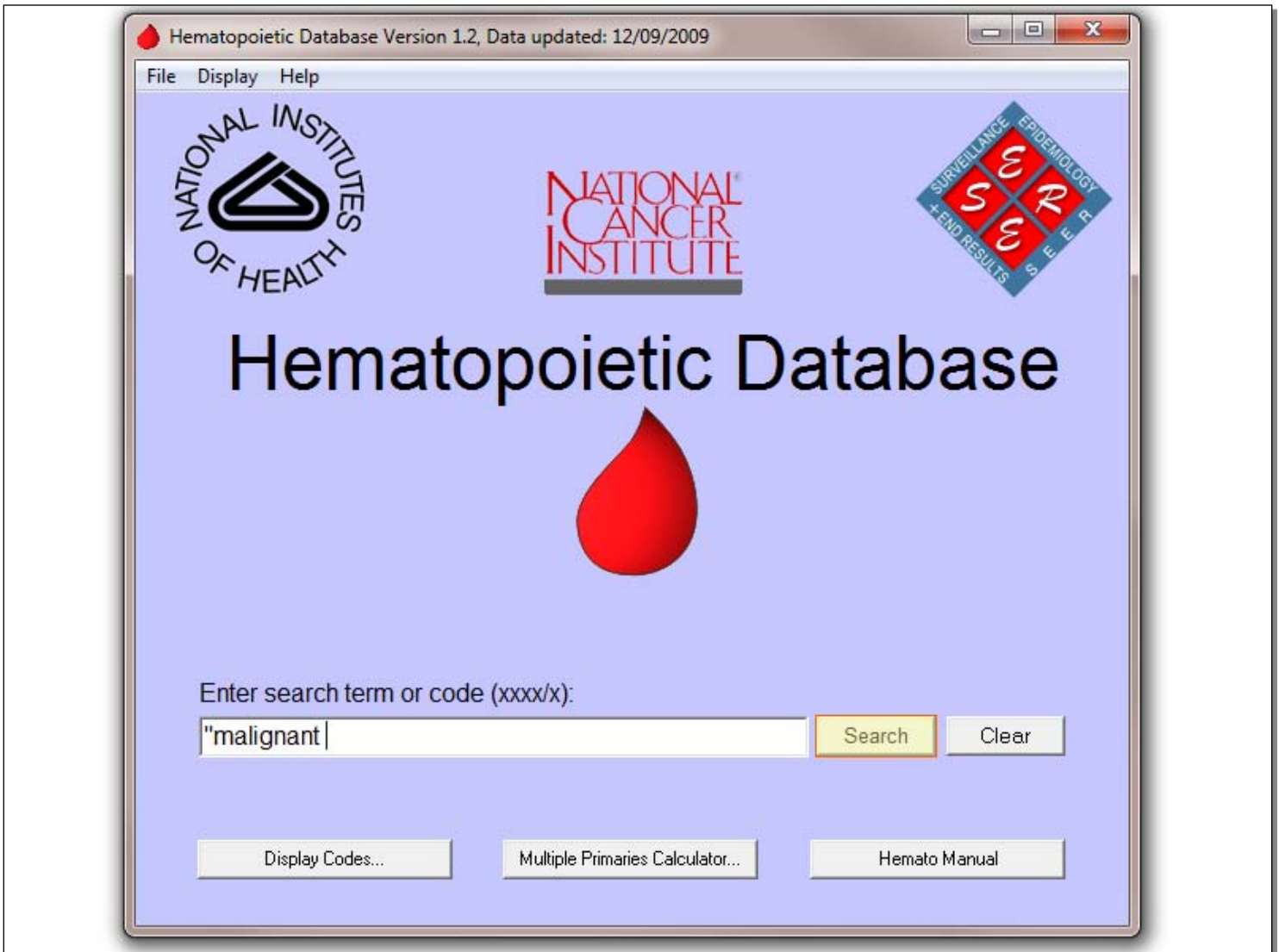
All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

[Back](#)      [Display](#)      [Print Screen](#)

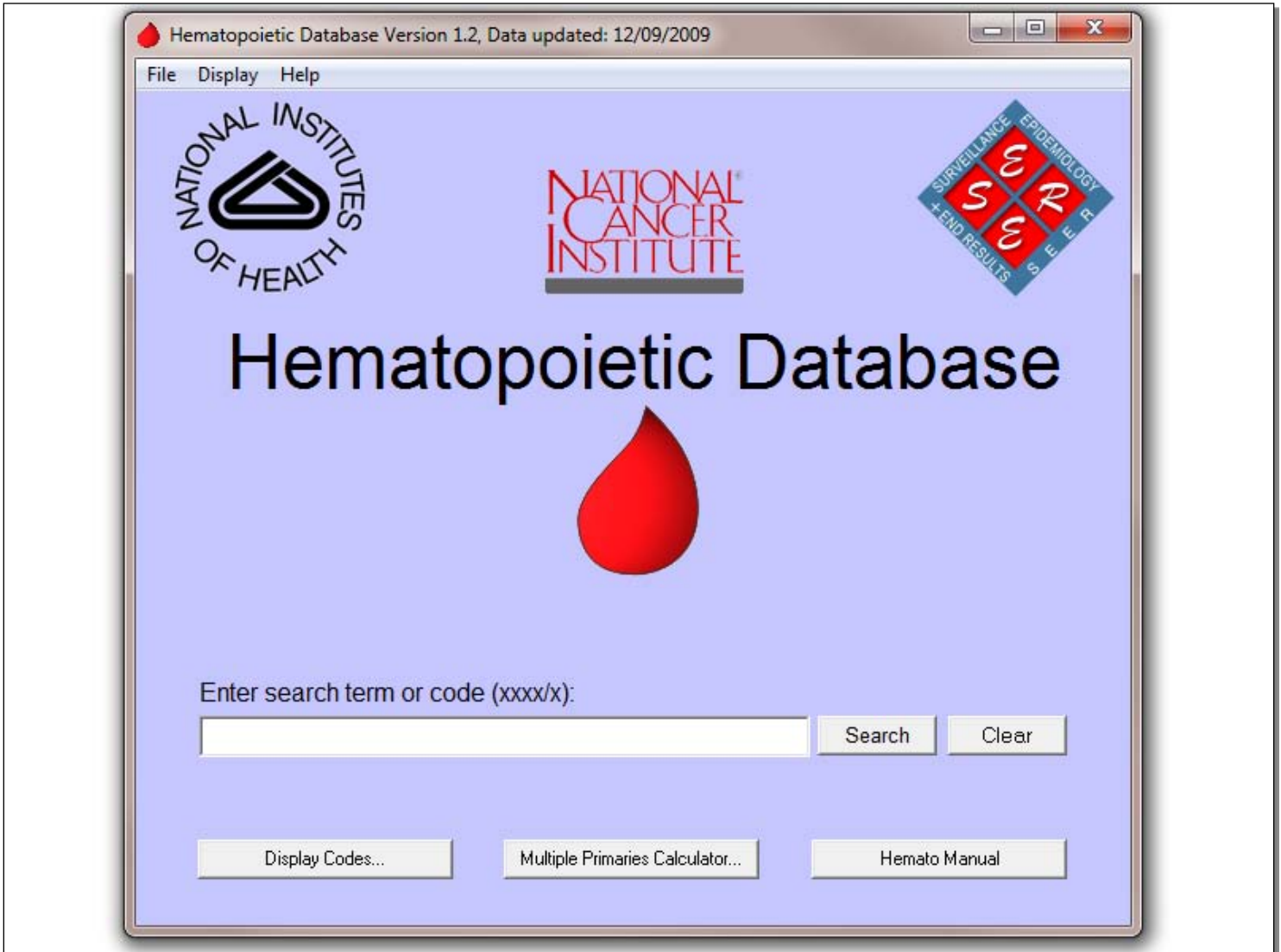
Slide 50 - Slide 50



Slide 51 - Slide 51



Slide 52 - Slide 52



Slide 53 - Slide 53

**Search Results**

File Help

Your search for "malignant lymphoma" found 54 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
Malignant lymphoma, diffuse, NOS	9591/3	Yes
Malignant lymphoma, non-cleaved cell, NOS	9591/3	Yes
Malignant lymphoma, undifferentiated cell type, NOS	9591/3	Yes
Malignant lymphoma, lymphocytic, poorly differentiated, diffuse	9591/3	Yes
Malignant lymphoma, lymphocytic, intermediate differentiation, nodular	9591/3	Yes
Malignant lymphoma, small cell, noncleaved, diffuse	9591/3	Yes

**ICD-O-3 Code:** 9591/3      **Preferred Term:** Non-Hodgkin lymphoma, NOS

**Definition**

Non-Hodgkin lymphoma not further classified by cell type nor defined for lineage (B-cell, T-cell, etc.) This is not a commonly used pathology term.

See abstractor notes for definitions of Splenic B-cell lymphoma/leukemia.

**Alternate Names**

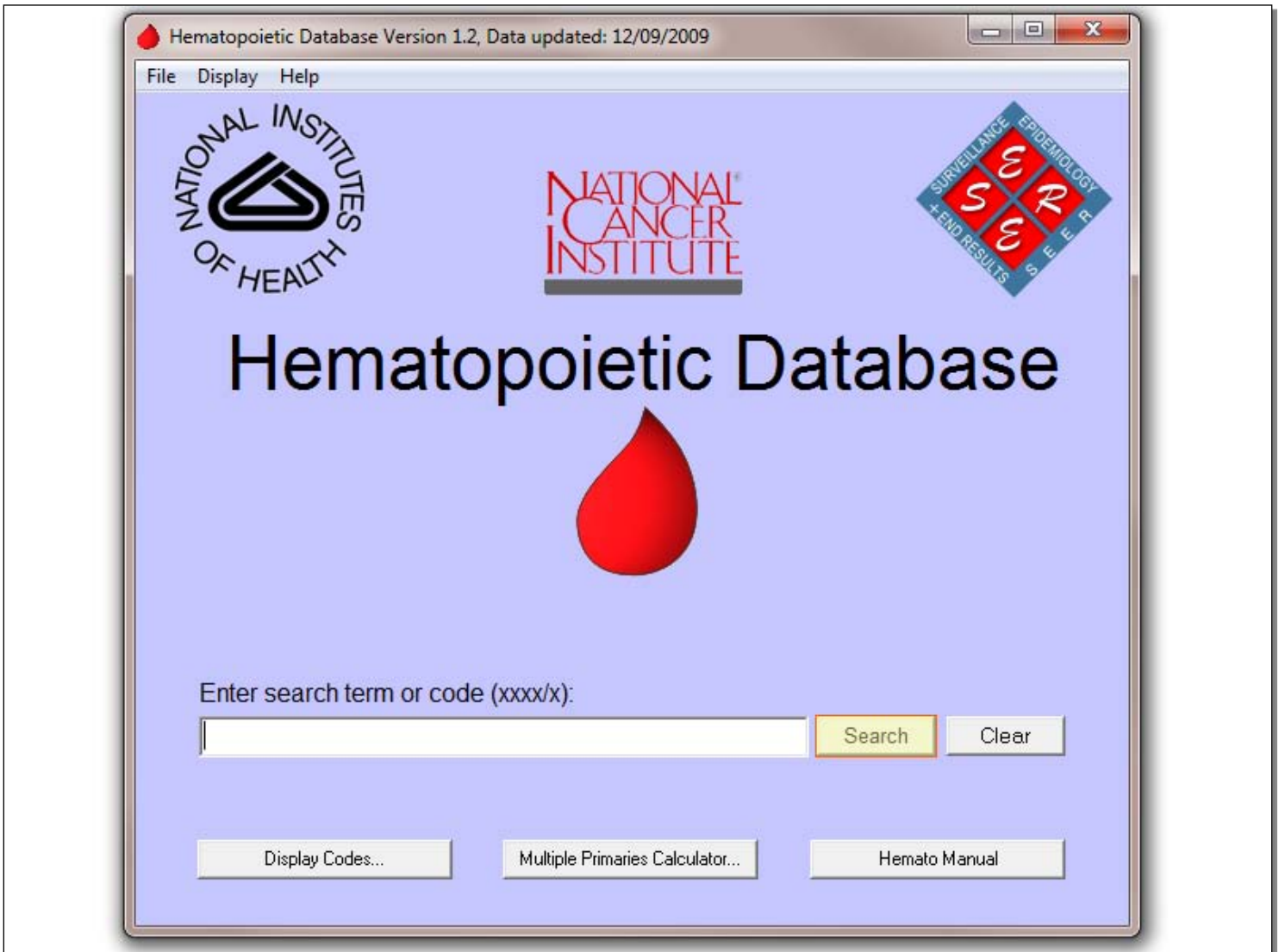
B cell lymphoma NOS  
HCL-v  
Hairy cell leukemia-variant  
Lymphocytic lymphoma simulating hairy cell leukemia  
Lymphocytoma, NOS

Select the fields you wish to display:

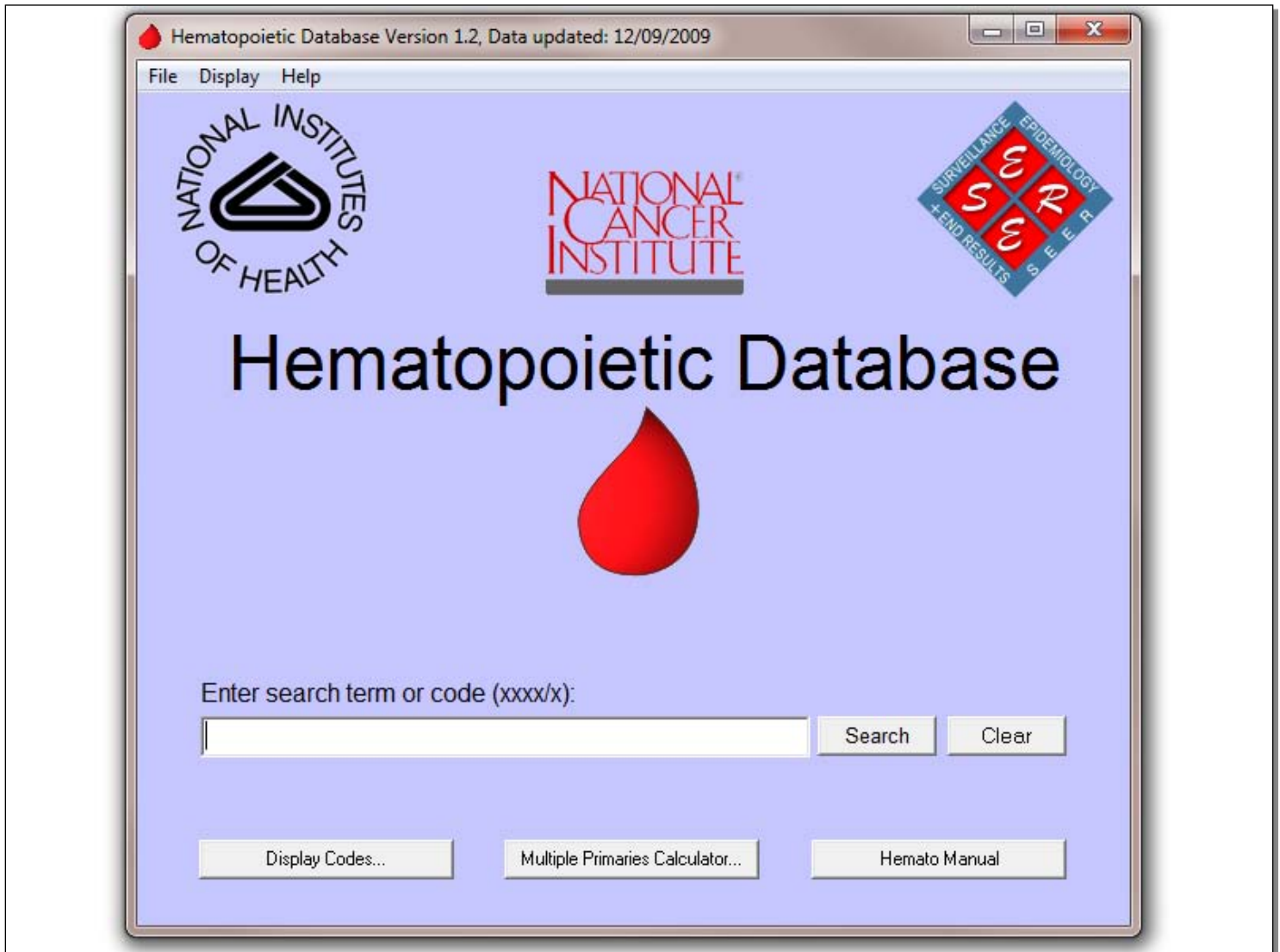
All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

Back      Display      Print Screen

Slide 54 - Slide 54



Slide 55 - Slide 55





Slide 56 - Slide 56

**Search Results**

File Help

Your search for " CML" found 6 results.  
Select your disease of interest

Matched Term		ICD-O-3 Code	Reportable
CML		9875/3	Yes
CML	Animation	9863/3	Yes
CML-Accelerated phase		9875/3	Yes
CML-Chronic Phase		9875/3	Yes
CML-Blast Phase		9875/3	Yes
aCML		9876/3	Yes

ICD-O-3 Code: 9875/3

Preferred Term: Chronic myelogenous leukemia, BCR/ABL1 positive

**Definition**

Myeloproliferative neoplasm that is consistently associated with the BCR-ABL1 fusion gene located in the Philadelphia chromosome; originates in an abnormal bone marrow stem cell.  
CML has three phases: chronic, accelerated, and the blastic phase or blast crisis.

**Alternate Names**

CML  
CML-Accelerated phase  
CML-Blast Phase  
CML-Chronic Phase  
Chronic granulocytic leukemia

Select the fields you wish to display:

All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

Back      Display      Print Screen



Slide 57 - Slide 57

🔍 Search Results
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File Help

Your search for " CML" found 6 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
CML	9875/3	Yes
CML	9863/3	Yes
CML-Accelerated phase	9875/3	Yes
CML-Chronic Phase	9875/3	Yes
CML-Blast Phase	9875/3	Yes
aCML	9876/3	Yes

**ICD-O-3 Code:** 9863/3      **Preferred Term:** Chronic myeloid leukemia, NOS

**Definition**

process has Ph+, BCR/ABL fusion and/or t(9;22)(q34;q11) demonstrated, as defined by ICD-O-3 for 9875 as well. Presumably myelogenous leukemia without genetic studies done would be coded to 9863.

**Alternate Names**

CML  
 Chronic granulocytic leukemia, NOS  
 Chronic myelocytic leukemia, NOS

Select the fields you wish to display:

All

Disease genetics data

Treatments

Definitive diagnostic methods

Disease Immunophenotyping

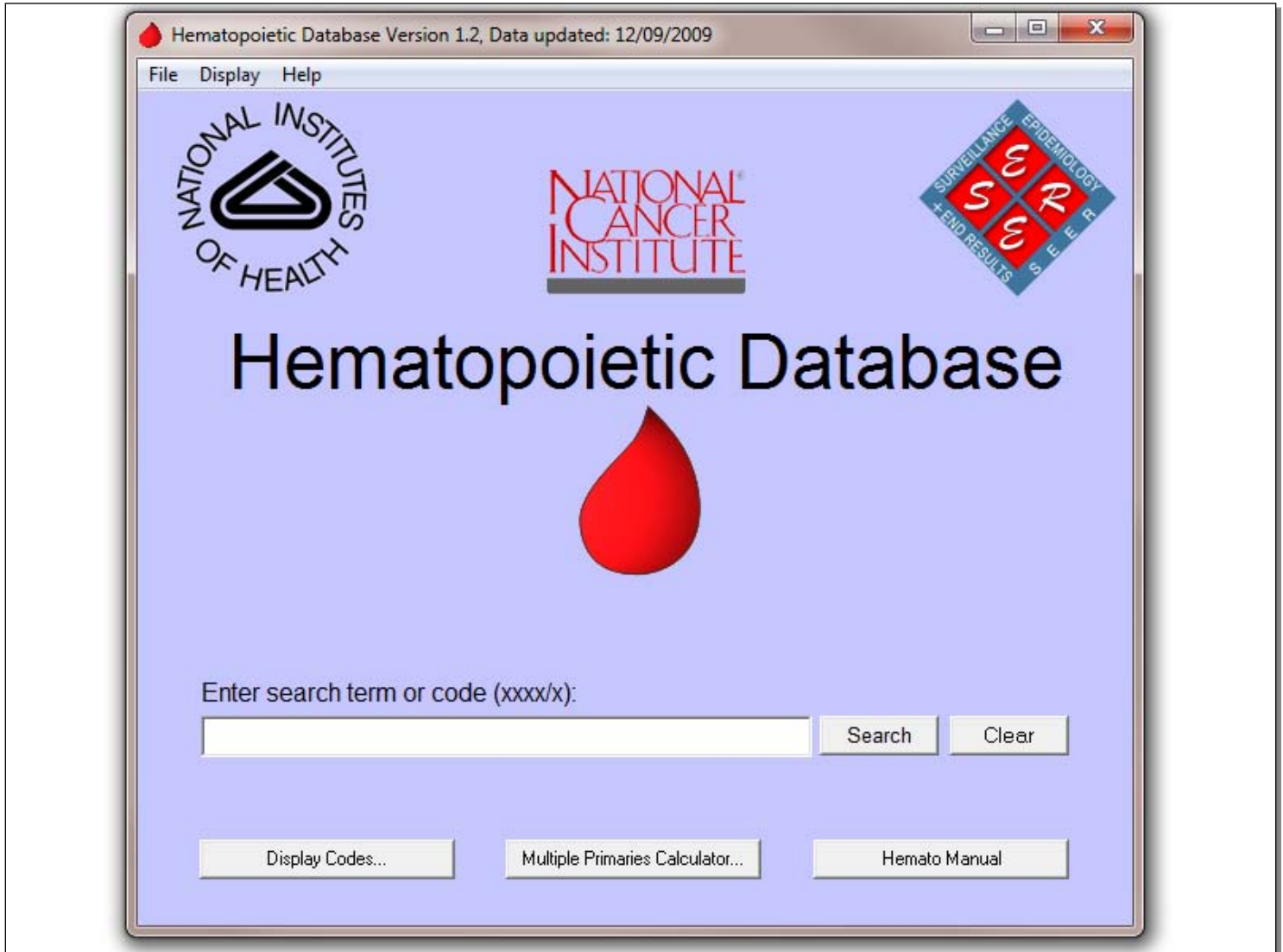
Transformations

Back

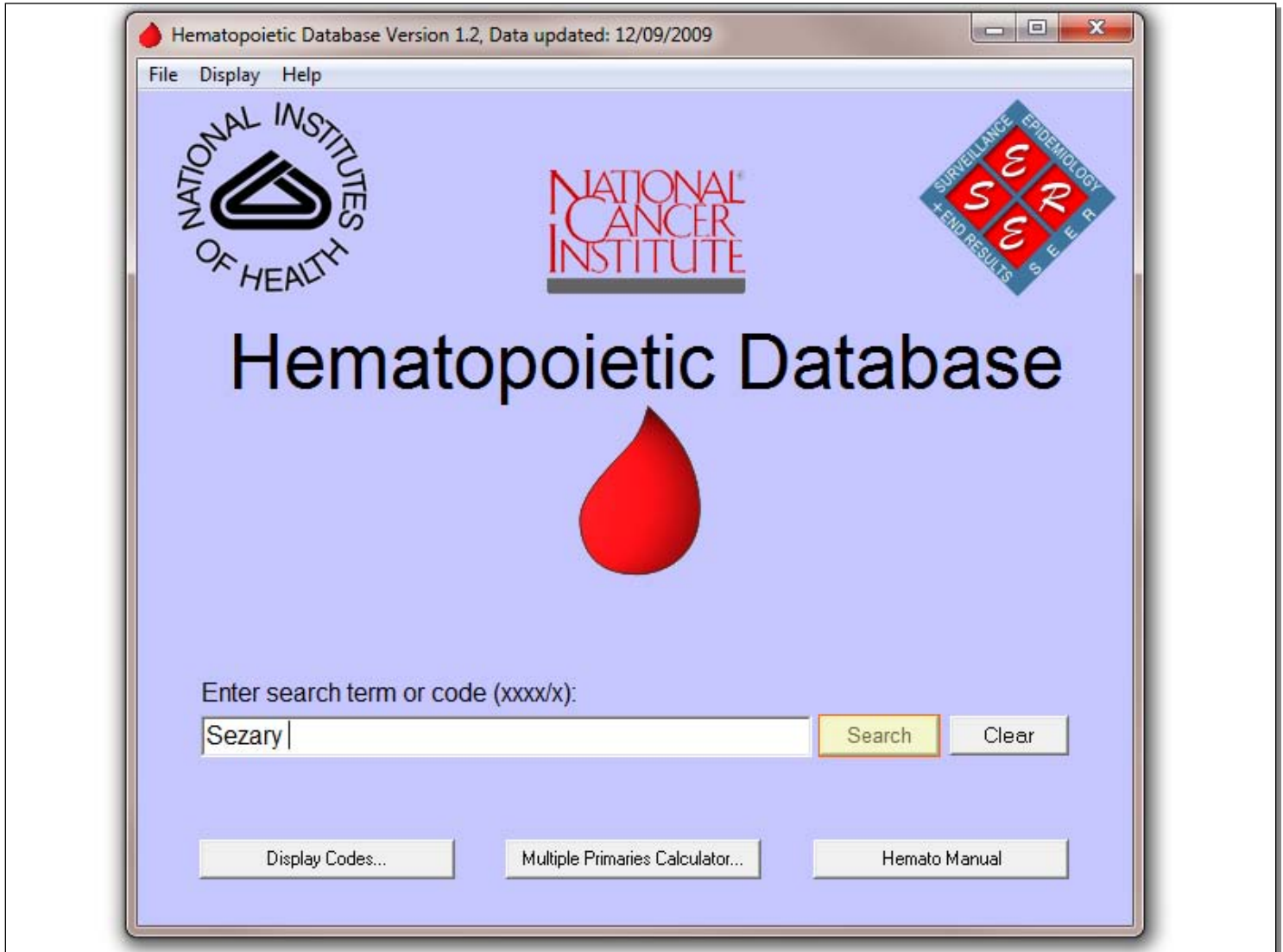
Display

Print Screen

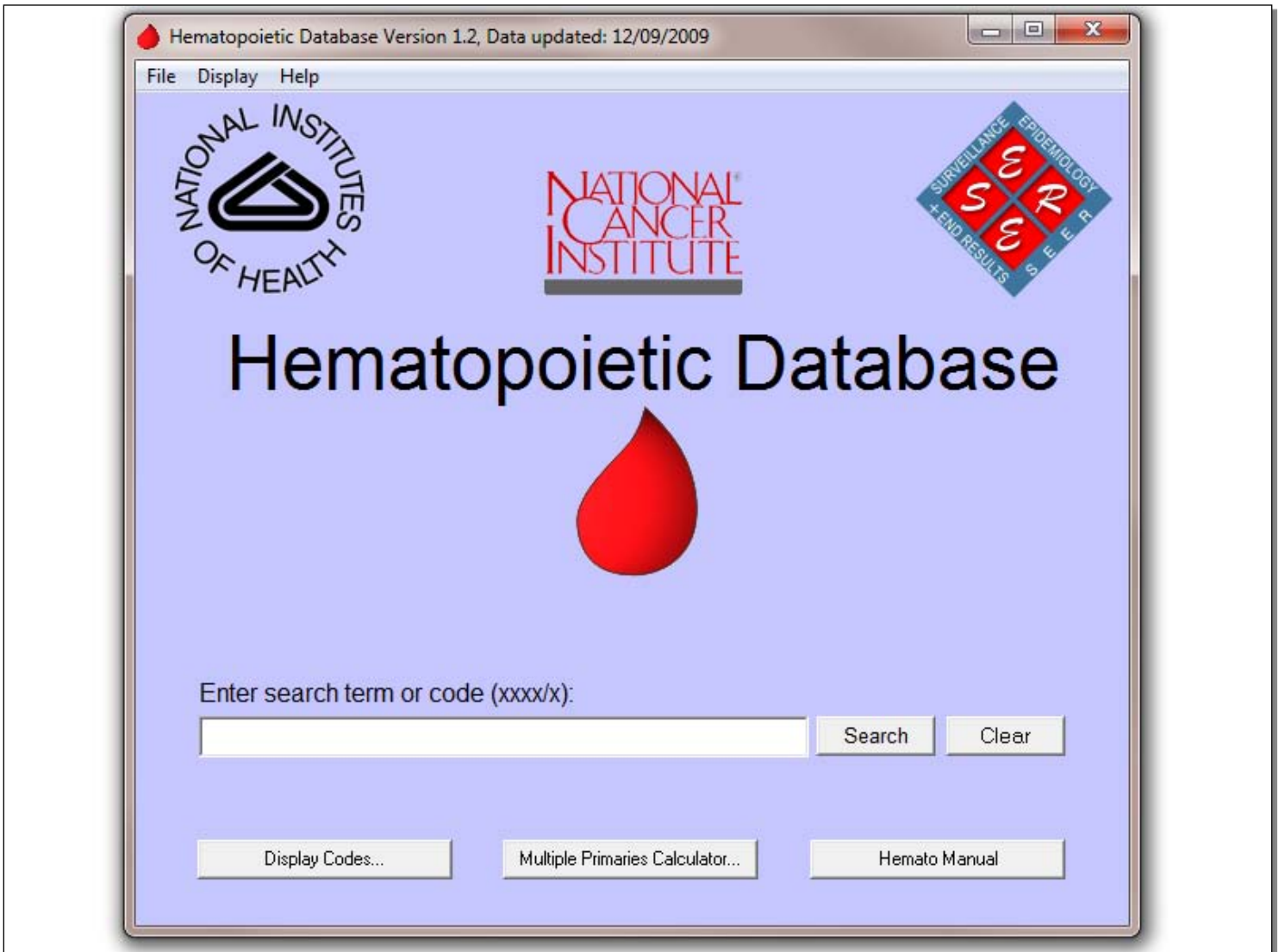
Slide 58 - Slide 58



Slide 59 - Slide 59



Slide 60 - Slide 60



Slide 61 - Slide 61

Search Results
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File Help

Your search for " **Sezary syndrom**" found **15** results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
<b>Sezary syndrome</b>	<b>9701/3</b>	<b>Yes</b>
Therapy-related myelodysplastic syndrome, NOS	9987/3	Yes
Myelodysplastic syndrome associated with isolated del(5q)	9986/3	Yes
Myelodysplastic syndrome, unclassifiable	9989/3	Yes
Myeloid leukemia associated with Down Syndrome	9898/3	Yes
Myeloid proliferations related to Down syndrome	9898/1	Yes

**ICD-O-3 Code:** 9701/3      **Preferred Term:** Sezary syndrome

**Definition**

Sezary syndrome is a generalized mature T-cell lymphoma characterized by the presence of erythroderma, lymphadenopathy and neoplastic T-lymphocytes in the blood. The neoplastic T-cells have cerebriform nuclei, and the disease is by tradition regarded as a variant of mycosis fungoides. However, the behavior is usually much

**Alternate Names**

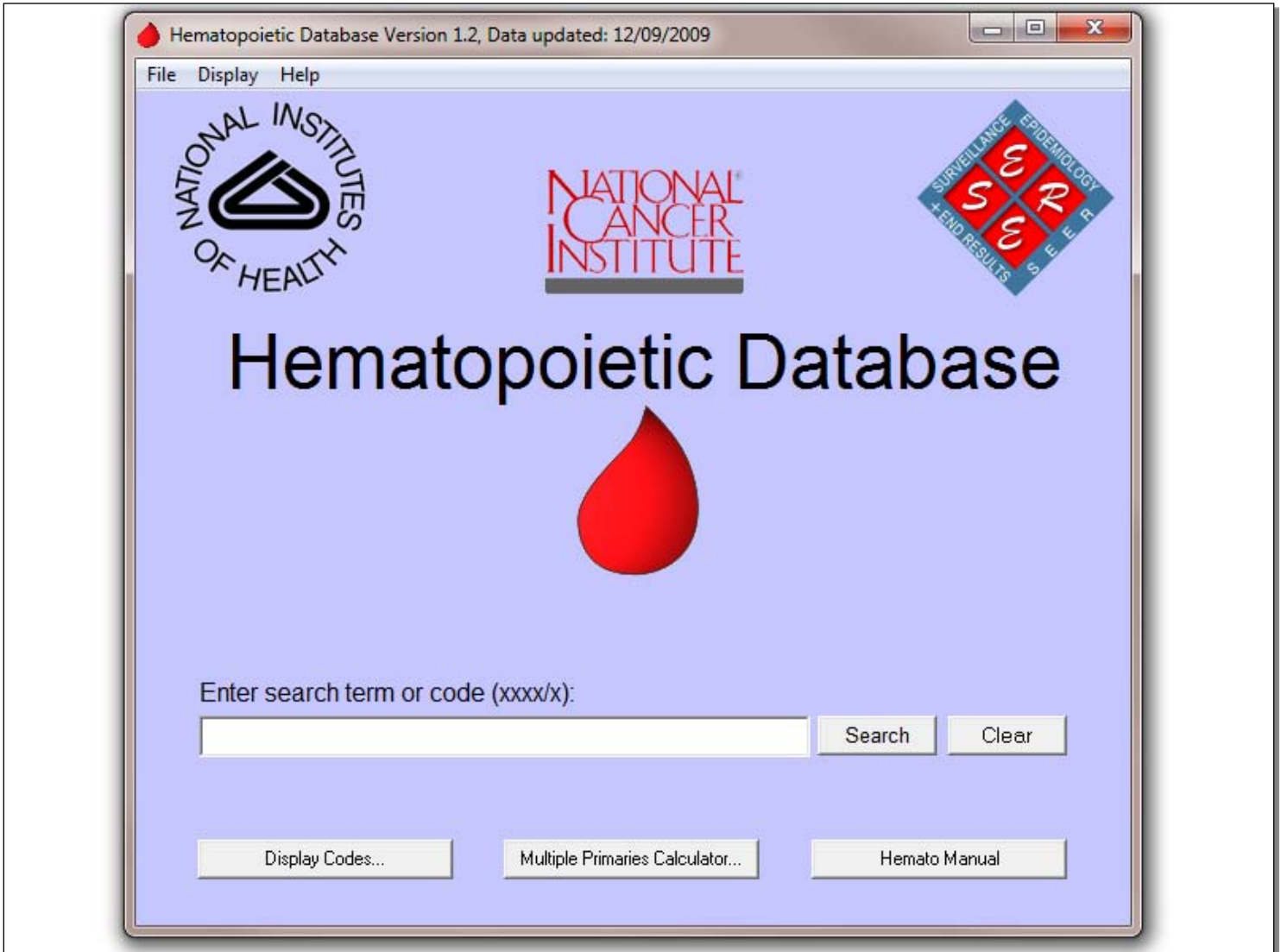
SS  
 Sezary disease

Select the fields you wish to display:

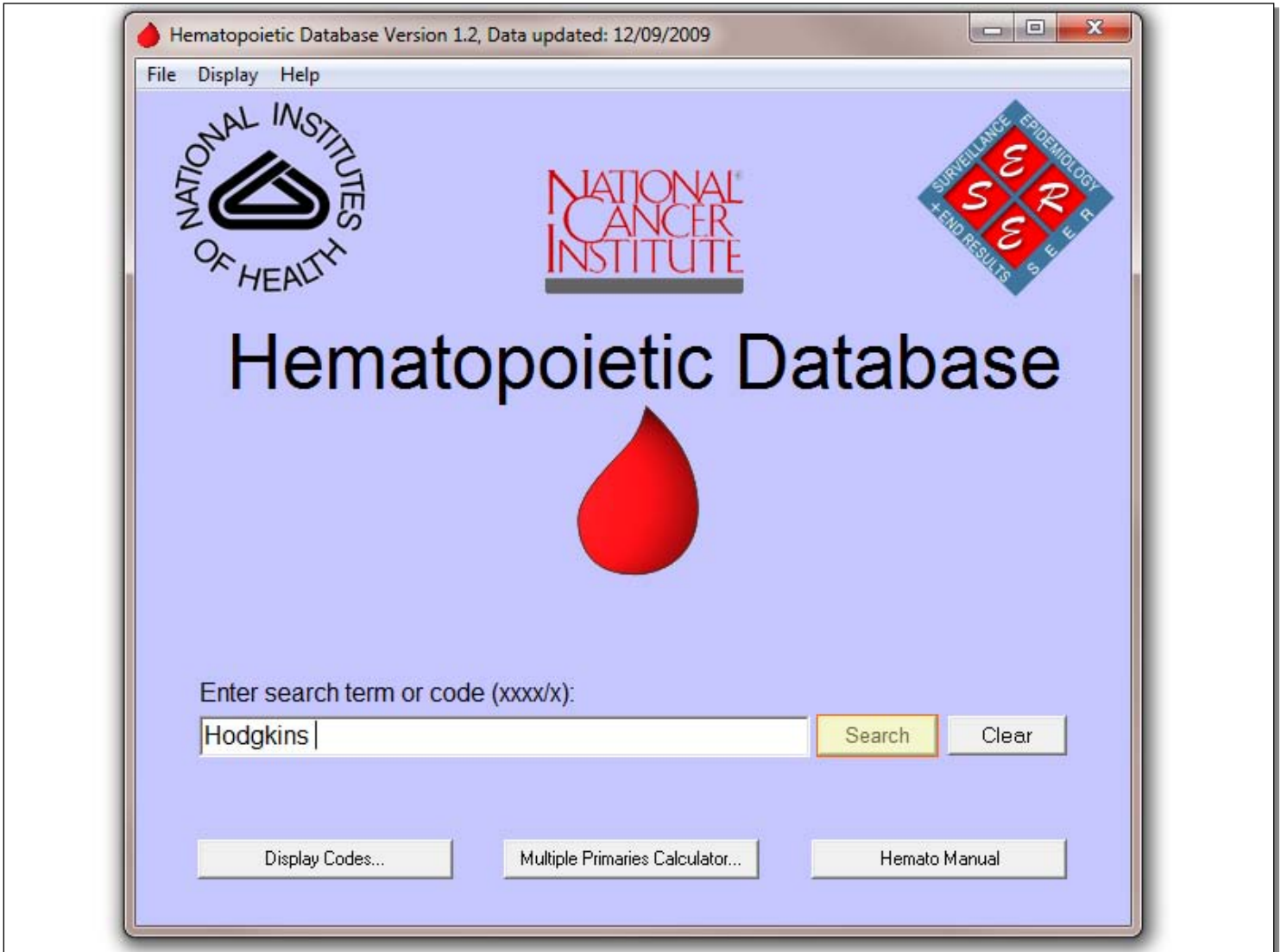
<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

Back
Display
Print Screen

Slide 62 - Slide 62

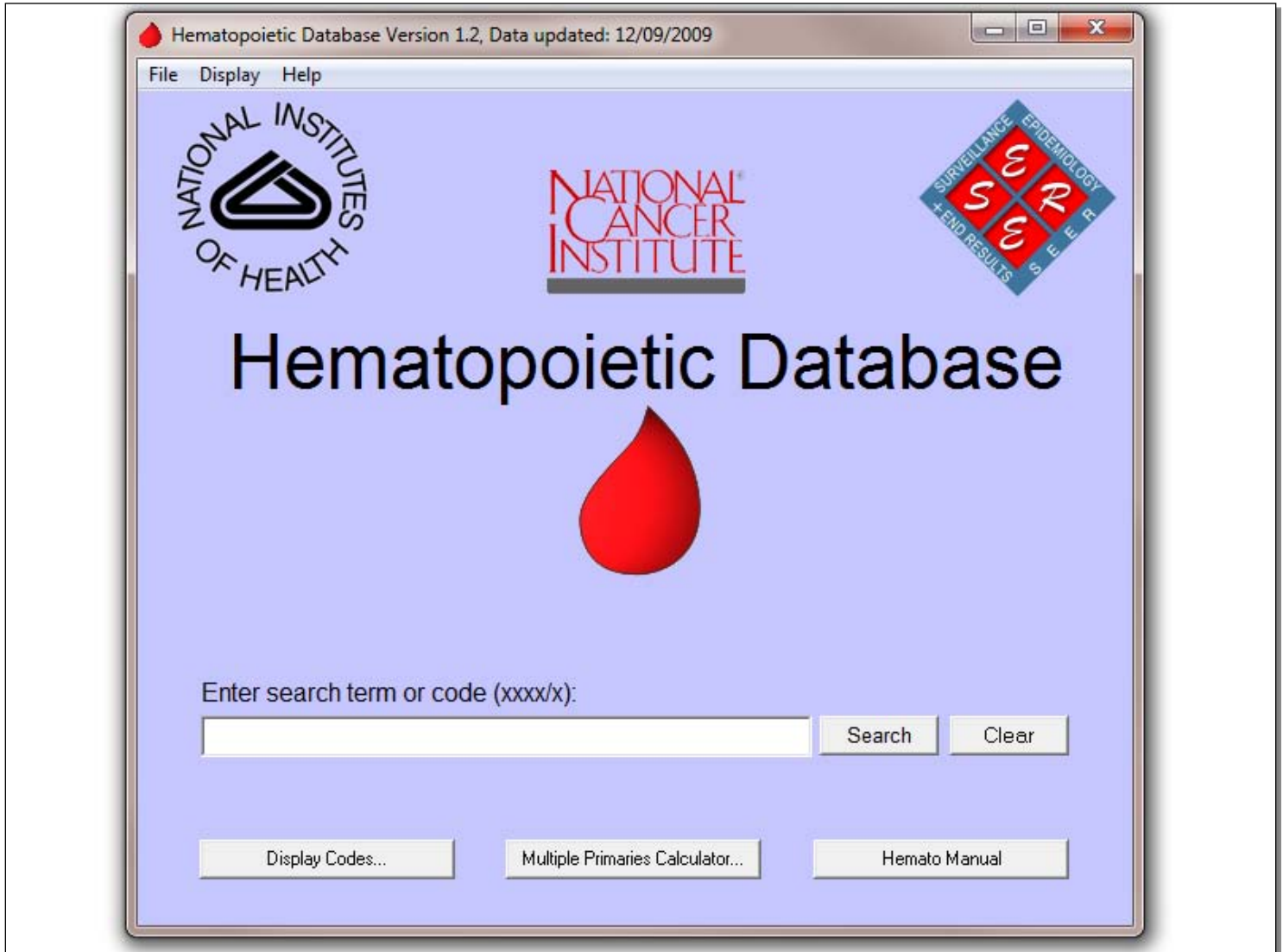


Slide 63 - Slide 63





Slide 64 - Slide 64





Slide 65 - Slide 65

**Search Results**

File Help

Your search for "Hodgkins lymphoma" found 67 results.  
Select your disease of interest

Matched Term	ICD-O-3 Code	Reportable
Diffuse large B-cell lymphoma (DLBCL)	9680/3	Yes
Peripheral T-cell lymphoma, NOS	9702/3	Yes
Non-Hodgkin lymphoma, NOS	9591/3	Yes
Extranodal marginal zone lymphoma of mucosal-associated lymphoid tissue	9699/3	Yes
Follicular lymphoma	9690/3	Yes
Follicular lymphoma, grade 3	9698/3	Yes

**ICD-O-3 Code:** 9680/3      **Preferred Term:** Diffuse large B-cell lymphoma (DLBCL)

**Definition**

Lymphoma with diffuse proliferation of large neoplastic B lymphoid cells with nuclear size exceeding macrophage nuclei, more than twice size of normal lymphocytes. Normal architecture of node or extranodal tissue replaced in diffuse pattern. Morphologic variants: centroblastic, immunoblastic, plasmablastic, T-cell/histiocyte-

**Alternate Names**

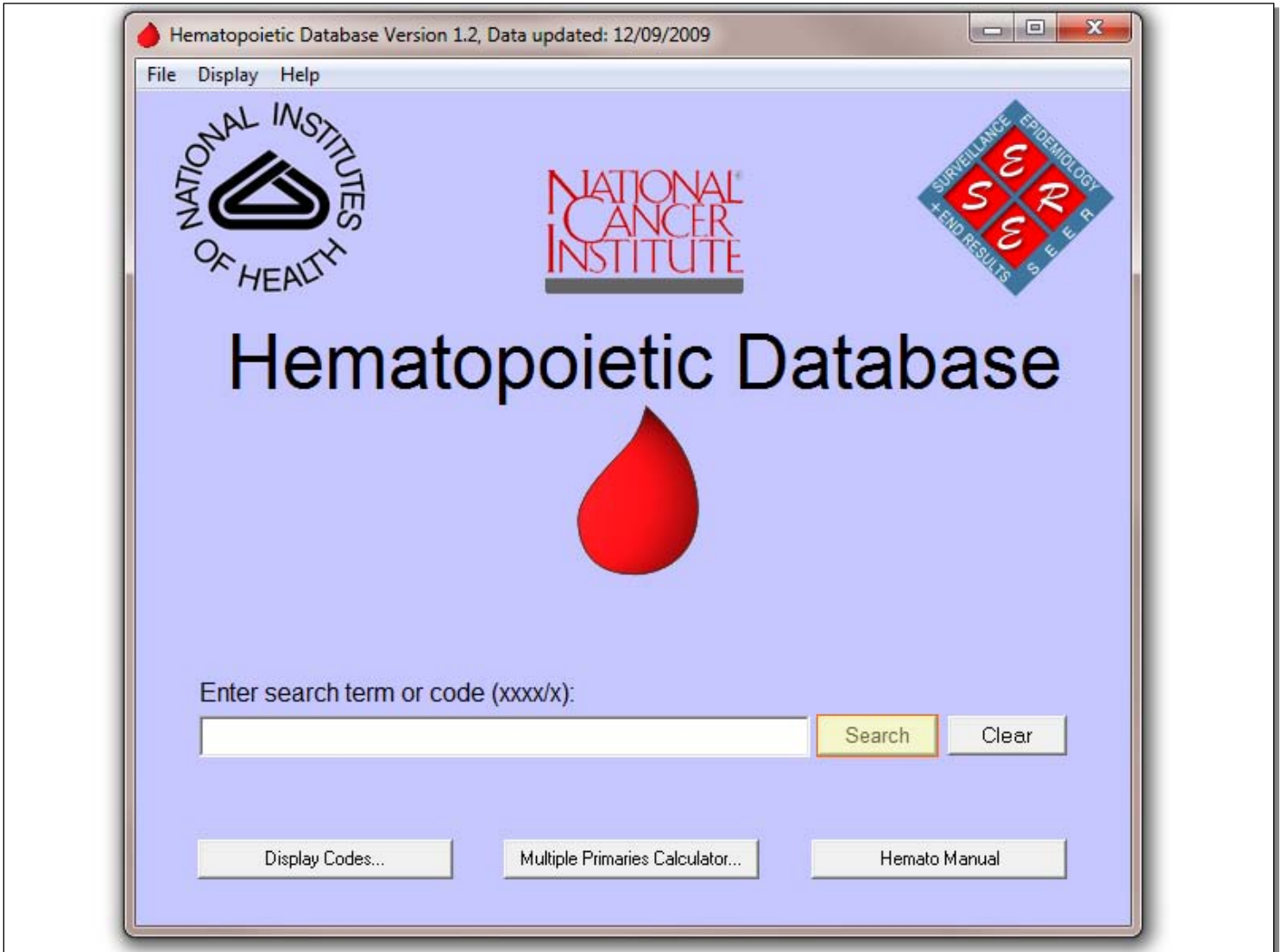
Age-related EBV+ lymphoproliferative disorder  
Anaplastic large B-cell lymphoma  
B-cell lymphoma, unclassifiable, with features intermediate between diffuse large B-cell DLBCL  
DLBCL associated with chronic inflammation

Select the fields you wish to display:

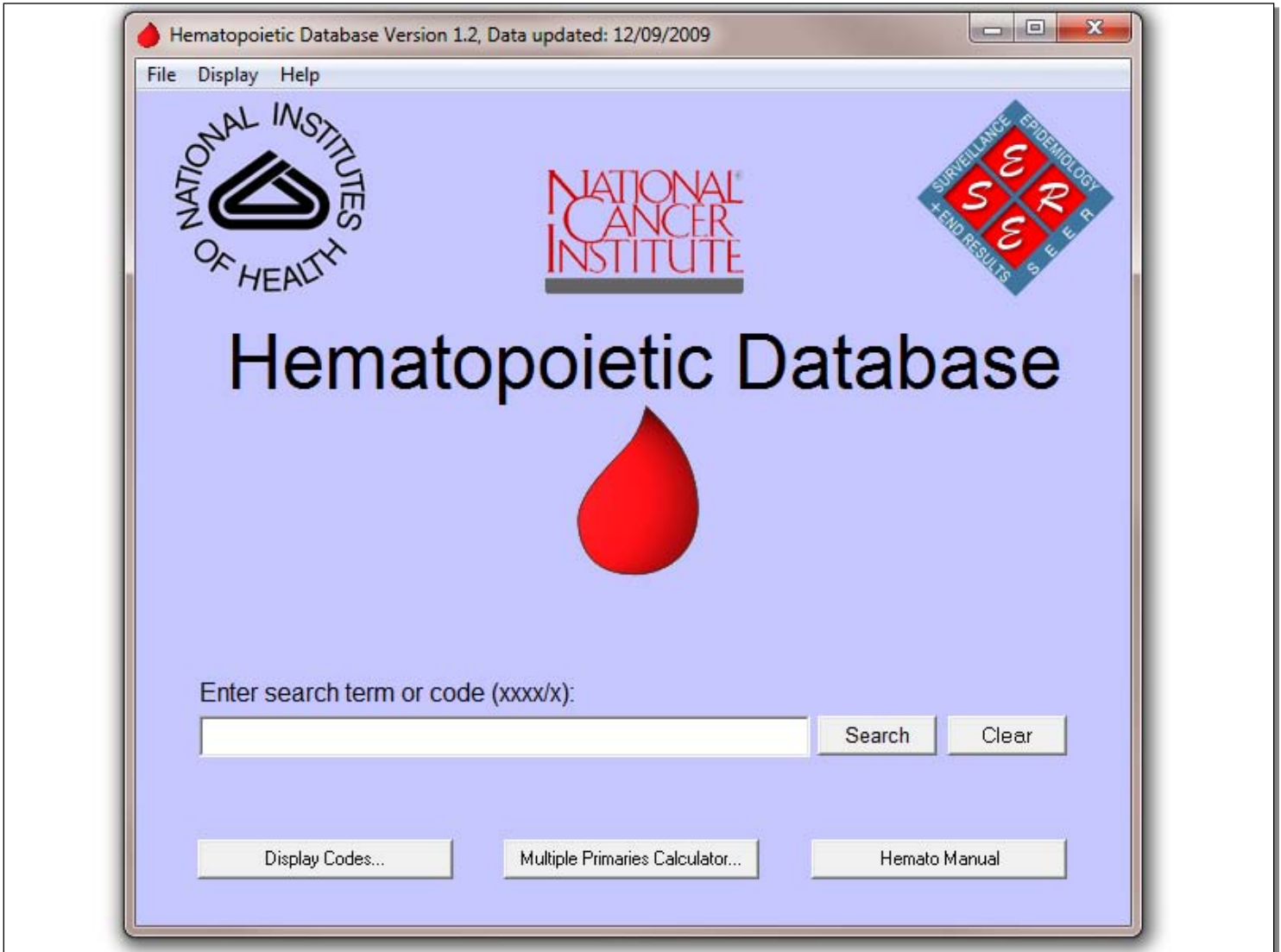
All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease Immunophenotyping       Transformations

Back      Display      Print Screen

Slide 66 - Slide 66



Slide 67 - Slide 67



Slide 68 - Slide 68

**Search Results**

File Help

Your search for "Myeloid neoplasms with PDGFRB rearrangement" found 57 results.  
Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
Myeloid neoplasms with PDGFRB rearrangement	9966/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9967/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9965/3	Yes
Acute myeloid leukemia with myelodysplasia-related changes	9895/3	Yes
Acute myeloid leukemia with inv(16)(p13.1q22) or t(16;16)(p13.1;q22)	9871/3	Yes
Acute myeloid leukemia with t(9;11)(p22;q23);MLLT3-MLL	9897/3	Yes

**ICD-O-3 Code:** 9966/3      **Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement

**Definition**

One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in association with rearrangement of PDGFRB at 5q31~33. Usually there is (5;12)(q31~33;p12) with

**Alternate Names**

Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)

Select the fields you wish to display:

All       Disease genetics data       Treatments  
 Definitive diagnostic methods       Disease immunophenotyping       Transformations

Back      Display      Print Screen

Slide 69 - Slide 69

Search Results
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File Help

Your search for " **Myeloid neoplasms with PDGFRB rearrangement**" found 57 results.  
 Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
Myeloid neoplasms with PDGFRB rearrangement	9966/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9967/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9965/3	Yes
Acute myeloid leukemia with myelodysplasia-related changes	9895/3	Yes
Acute myeloid leukemia with inv(16)(p13.1q22) or t(16;16)(p13.1;q22)	9871/3	Yes
Acute myeloid leukemia with t(9;11)(p22;q23);MLLT3-MLL	9897/3	Yes

**ICD-O-3 Code:** 9966/3      **Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement

**Definition**

One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in association with rearrangement of PDGFRB at 5q31~33. Usually there is (5;12)(q31~33;p12) with

**Alternate Names**

Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)

Select the fields you wish to display:

<input type="checkbox"/> All	<input type="checkbox"/> Disease genetics data	<input type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input type="checkbox"/> Disease Immunophenotyping	<input type="checkbox"/> Transformations

Back
Display
Print Screen

Slide 70 - Slide 70

**Search Results**

File Help

Your search for " **Myeloid neoplasms with PDGFRB rearrangement**" found 57 results.  
 Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
<b>Myeloid neoplasms with PDGFRB rearrangement</b>	9966/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9967/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9965/3	Yes
Acute myeloid leukemia with myelodysplasia-related changes	9895/3	Yes
Acute myeloid leukemia with inv(16)(p13.1q22) or t(16;16)(p13.1;q22)	9871/3	Yes
Acute myeloid leukemia with t(9;11)(p22;q23);MLL3-MLL	9897/3	Yes

**ICD-O-3 Code:** 9966/3      **Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement

**Definition**

One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in association with rearrangement of PDGFRB at 5q31~33. Usually there is (5;12)(q31~33;p12) with

**Alternate Names**

Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)

Select the fields you wish to display:

All                       Disease genetics data                       Treatments  
 **Definitive diagnostic methods**                       Disease Immunophenotyping                       Transformations

Slide 71 - Slide 71

The screenshot shows a web-based interface for a medical database. The window title is "Myeloid neoplasms with PDGFRB rearrangement". The interface is organized into several sections:

- ICD-O-3 Code:** 9966/3
- Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement
- Alternate Names:** Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)
- Definitions:** One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in
- Primary Site:** C421
- Definitive Diagnostic Methods:** Cytochemistry, Bone marrow biopsy, Genetic testing, FISH, Immunophenotyping

At the bottom of the window, there are three buttons: "Back to Results", "Display Abstractor Notes", and "Home".

Slide 72 - Slide 72

**Myeloid neoplasms with PDGFRB rearrangement**

File Help

**ICD-O-3 Code:** 9966/3 **Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement

**Alternate Names:** Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)

**Definitions:** One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in

**Primary Site:** C421

**Definitive Diagnostic Methods:** Cytochemistry, Bone marrow biopsy, Genetic testing, FISH, Immunophenotyping

[Back to Results](#) [Display Abstractor Notes](#) [Home](#)



Slide 73 - Slide 73

Search Results
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File Help

Your search for " **Myeloid neoplasms with PDGFRB rearrangement**" found **57** results.  
 Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
<b>Myeloid neoplasms with PDGFRB rearrangement</b>	9966/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9967/3	Yes
Myeloid and lymphoid neoplasms with PDGFRA rearrangement	9965/3	Yes
Acute myeloid leukemia with myelodysplasia-related changes	9895/3	Yes
Acute myeloid leukemia with inv(16)(p13.1q22) or t(16;16)(p13.1;q22)	9871/3	Yes
Acute myeloid leukemia with t(9;11)(p22;q23);MLL3-MLL	9897/3	Yes

**ICD-O-3 Code:** 9966/3      **Preferred Term:** Myeloid neoplasms with PDGFRB rearrangement

**Definition**

One of three myeloproliferative and lymphoid neoplasms associated with rearrangement of PDGFRA, PDGFRB and FGFR1. All result from formation of a fusion gene encoding an aberrant tyrosine kinase. This disease occurs in association with rearrangement of PDGFRB at 5q31~33. Usually there is (5;12)(q31~33;p12) with

**Alternate Names**

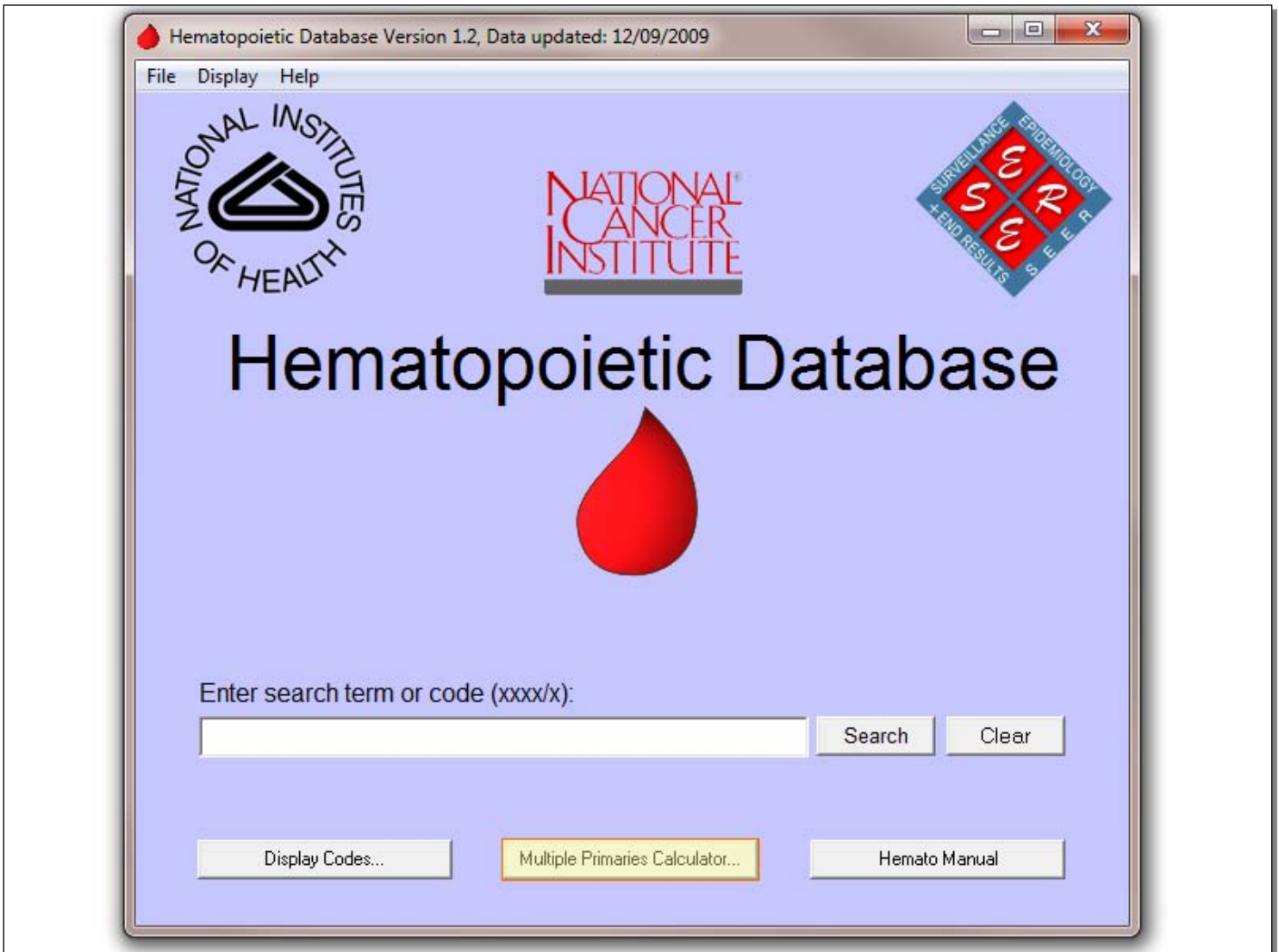
Chronic myelomonocytic leukemia with eosinophilia associated with t(5;12)

Select the fields you wish to display:

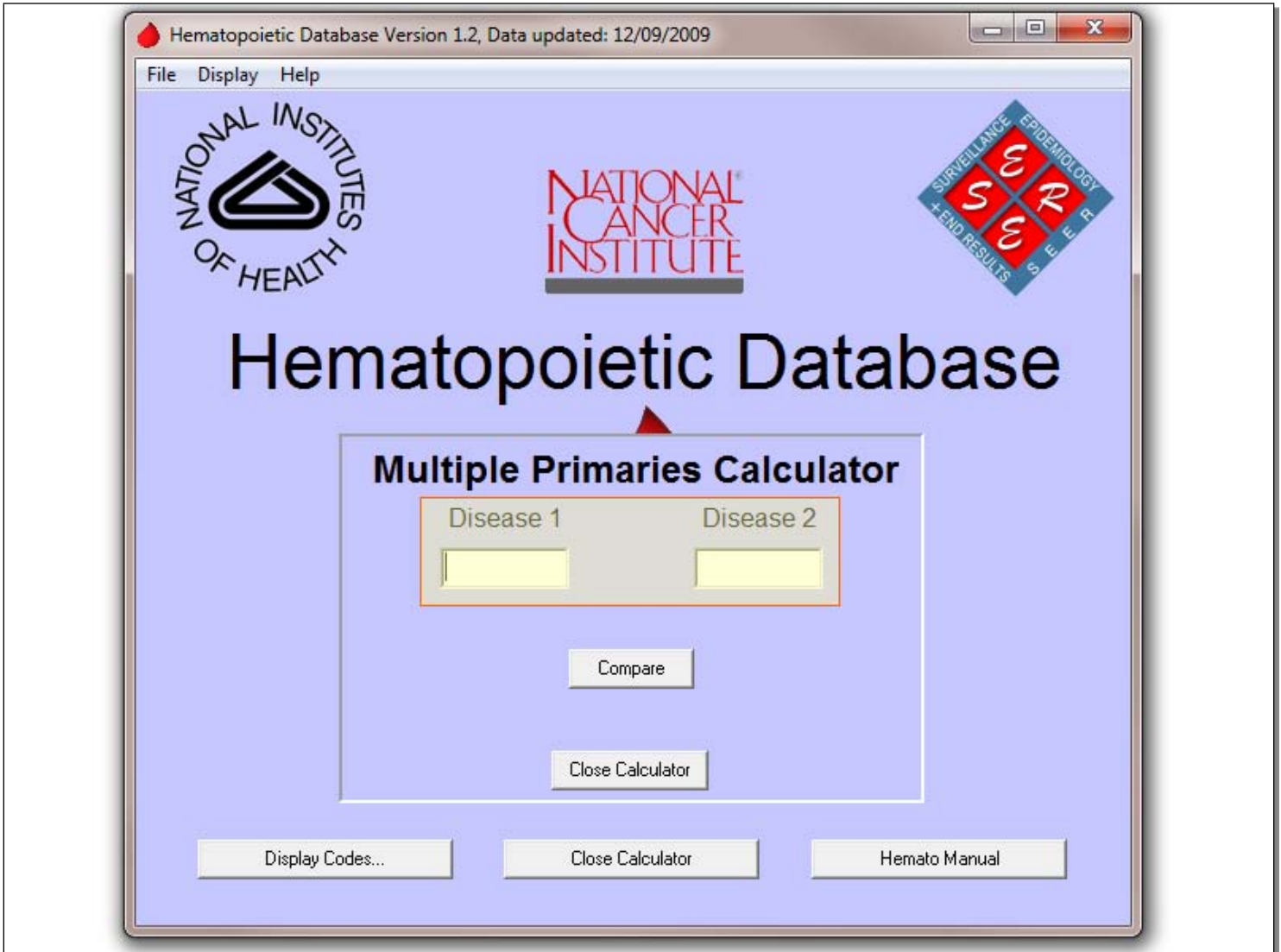
<input type="checkbox"/> All	<input type="checkbox"/> Disease genetics data	<input type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input type="checkbox"/> Disease Immunophenotyping	<input type="checkbox"/> Transformations

Back
Display
Print Screen

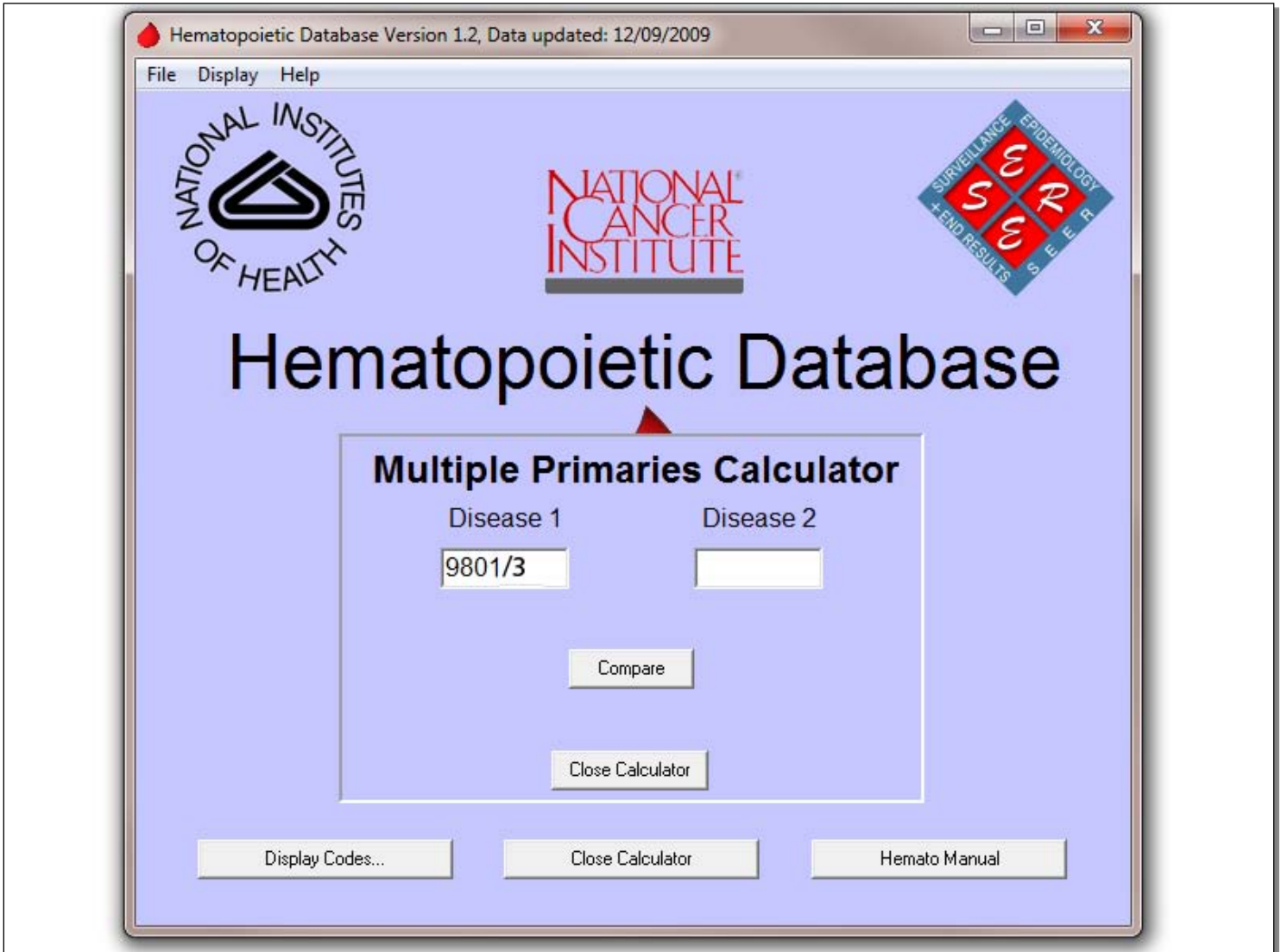
Slide 74 - Slide 74



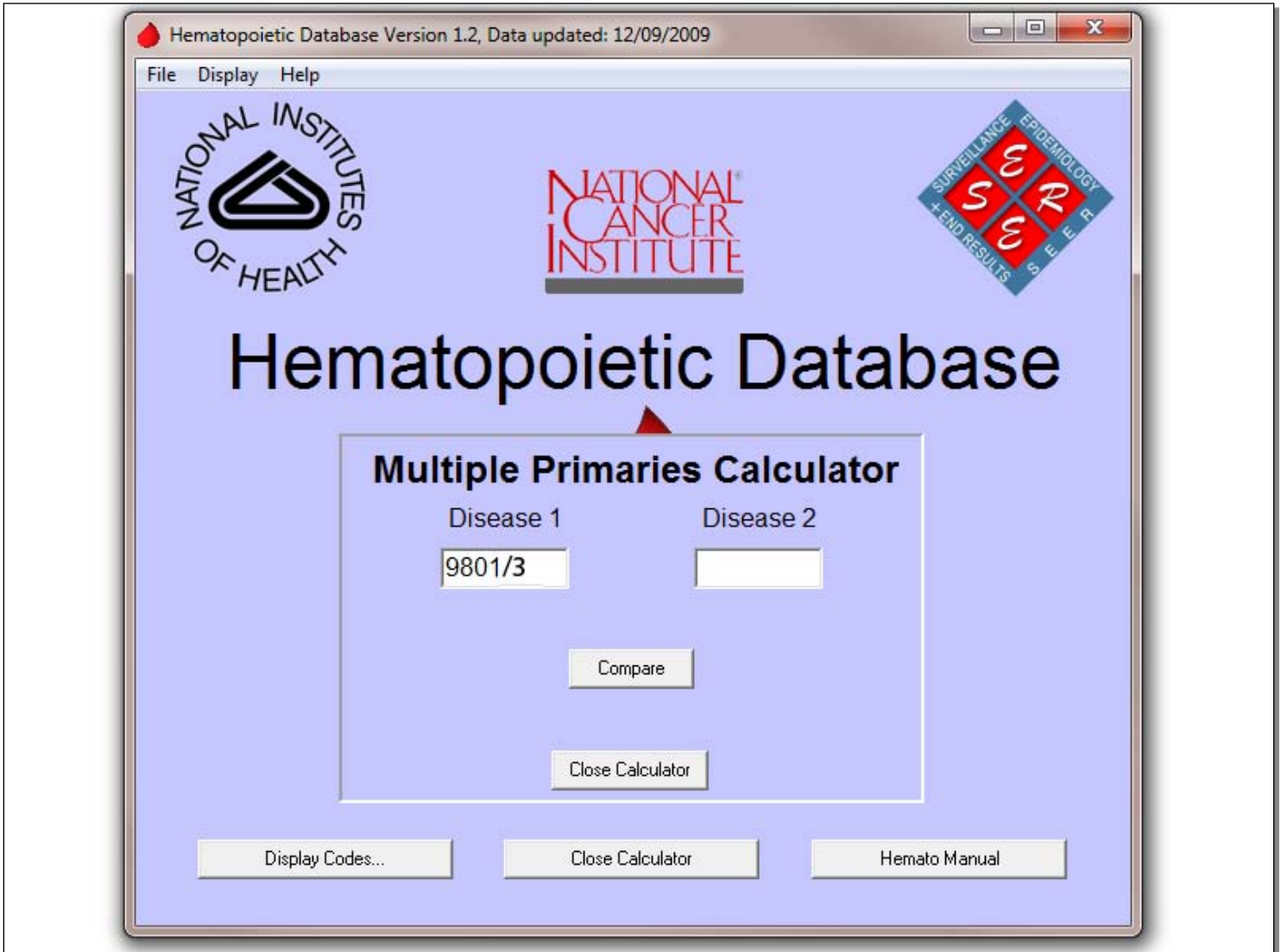
Slide 75 - Slide 75



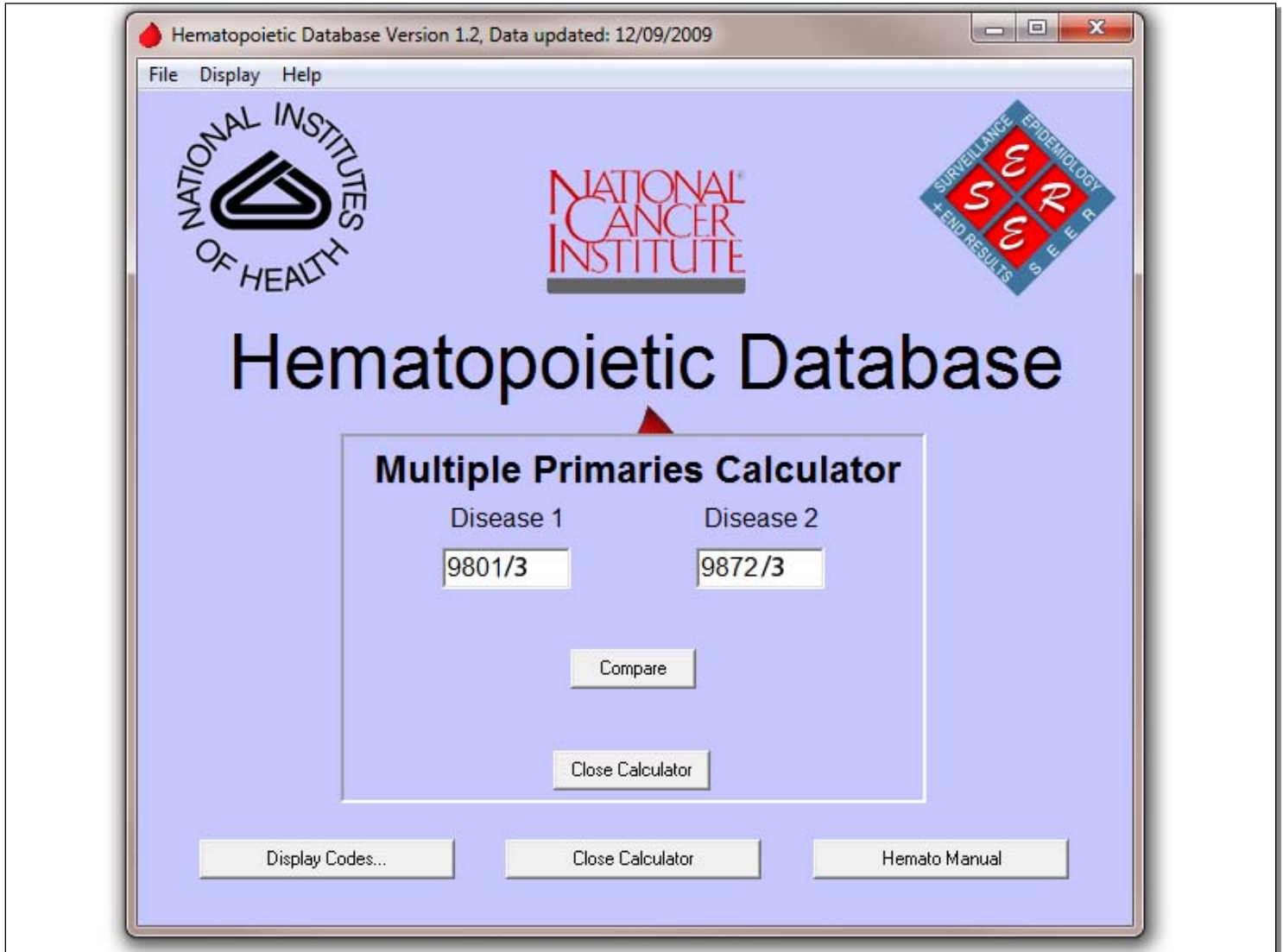
Slide 76 - Slide 76



Slide 77 - Slide 77

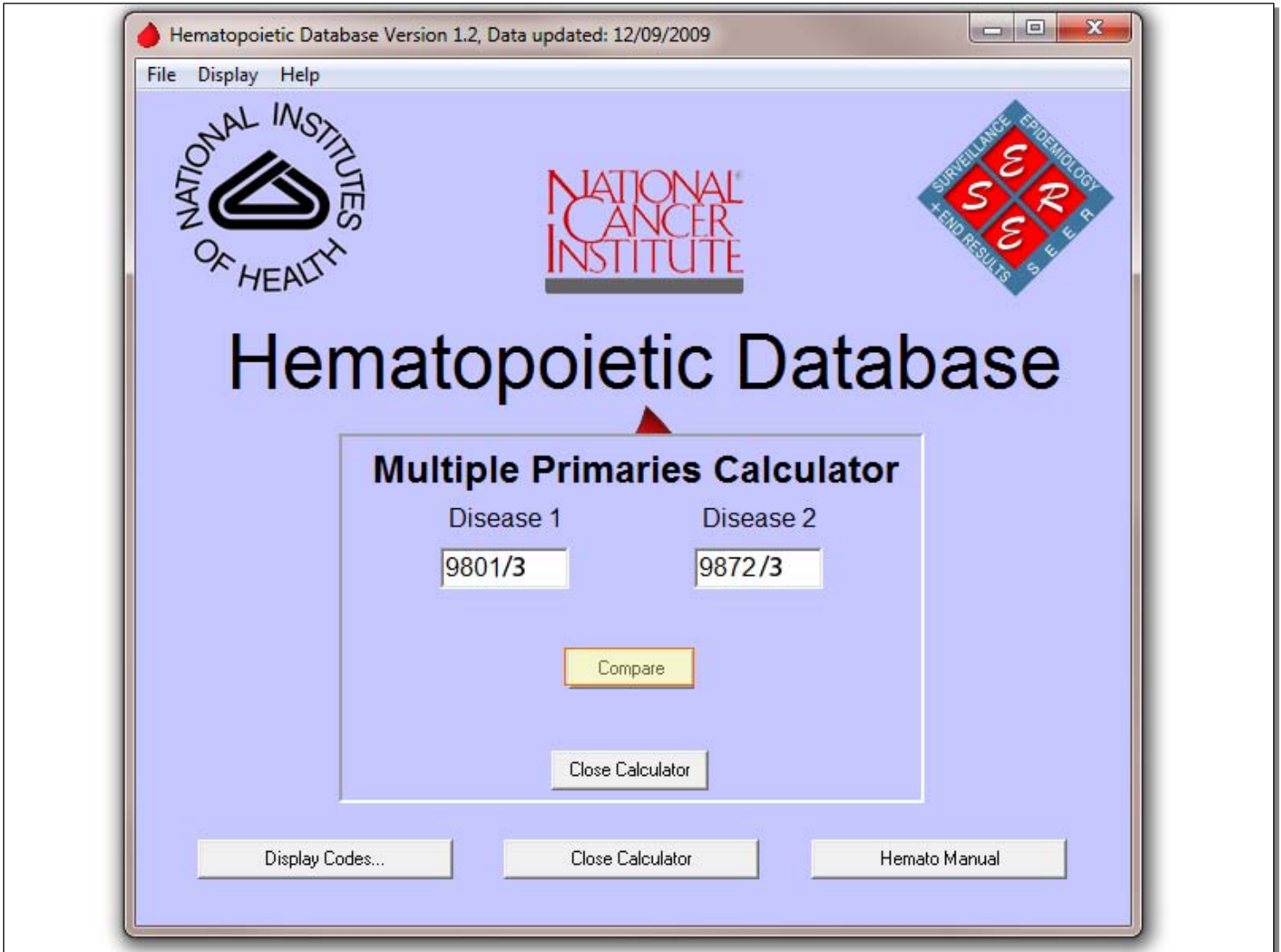


Slide 78 - Slide 78

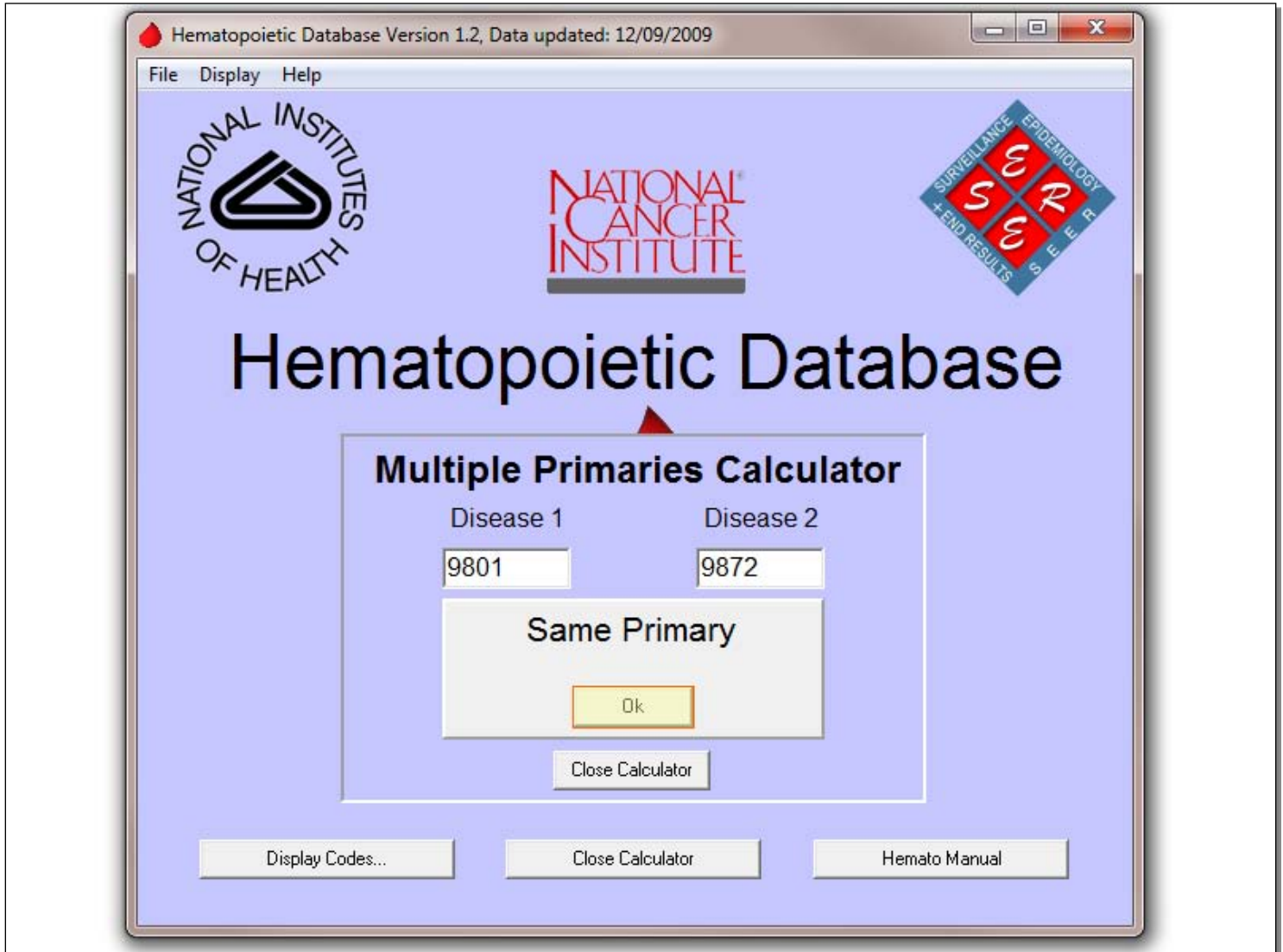




Slide 79 - Slide 79

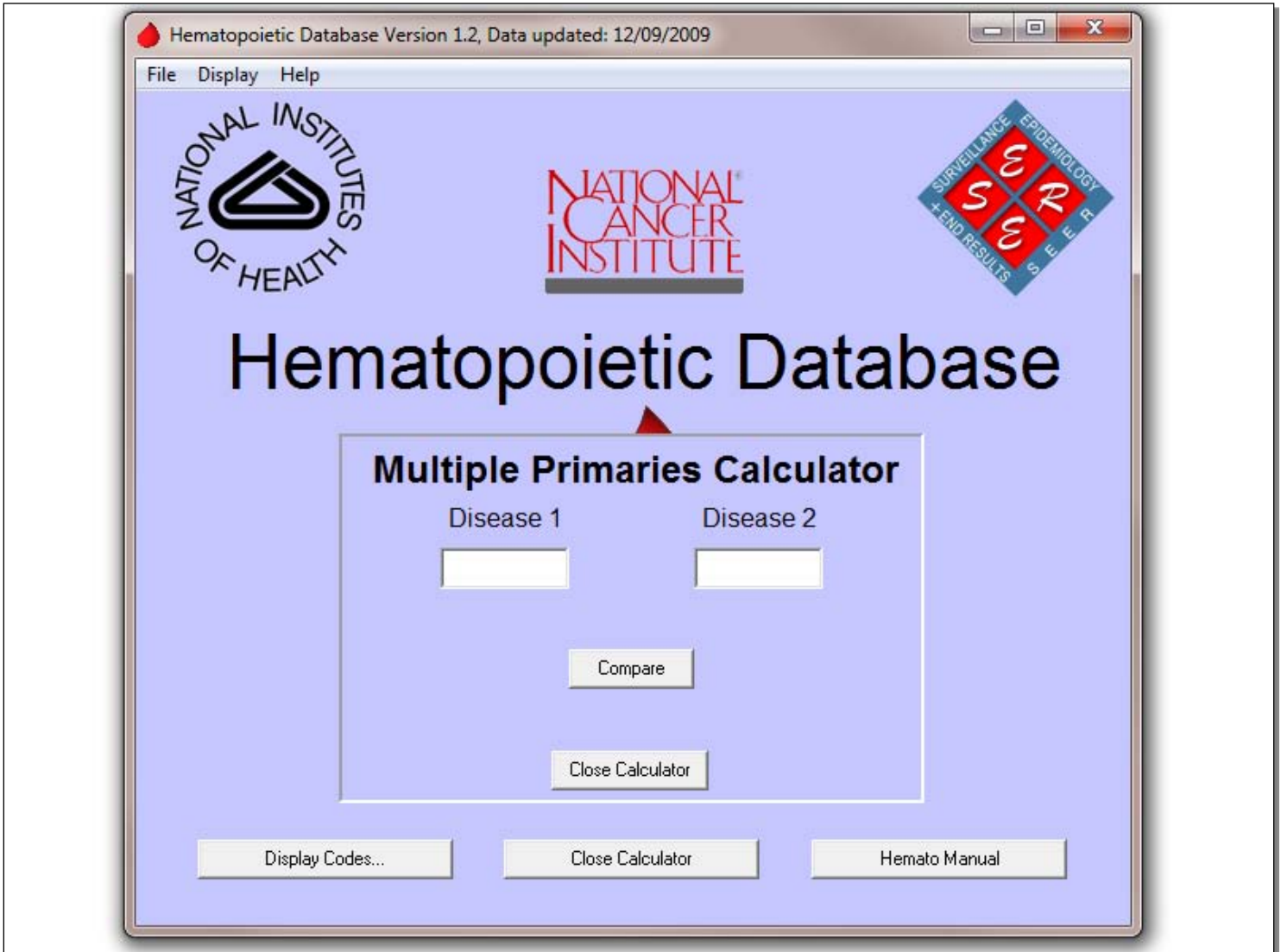


Slide 80 - Slide 80

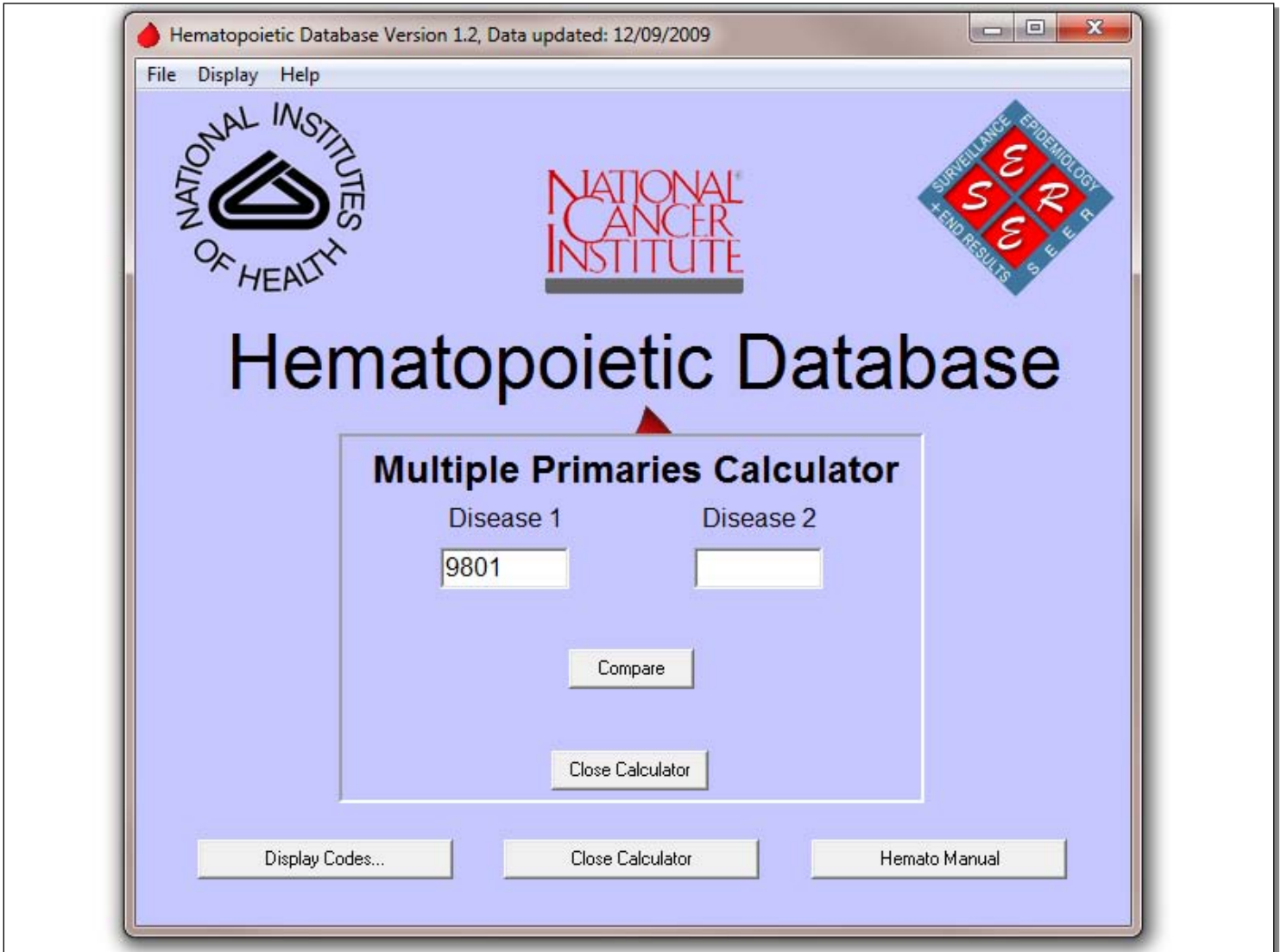




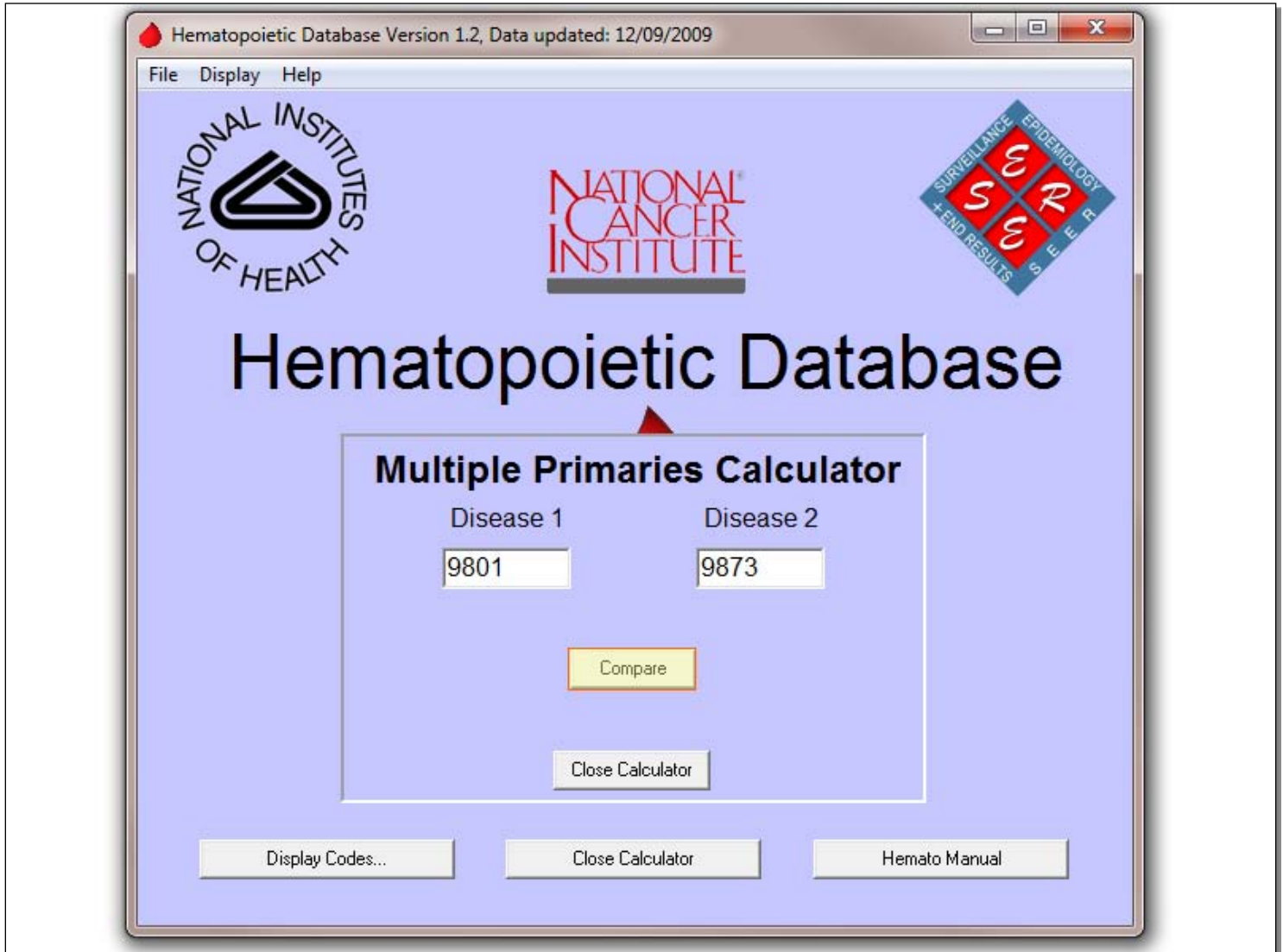
Slide 81 - Slide 81



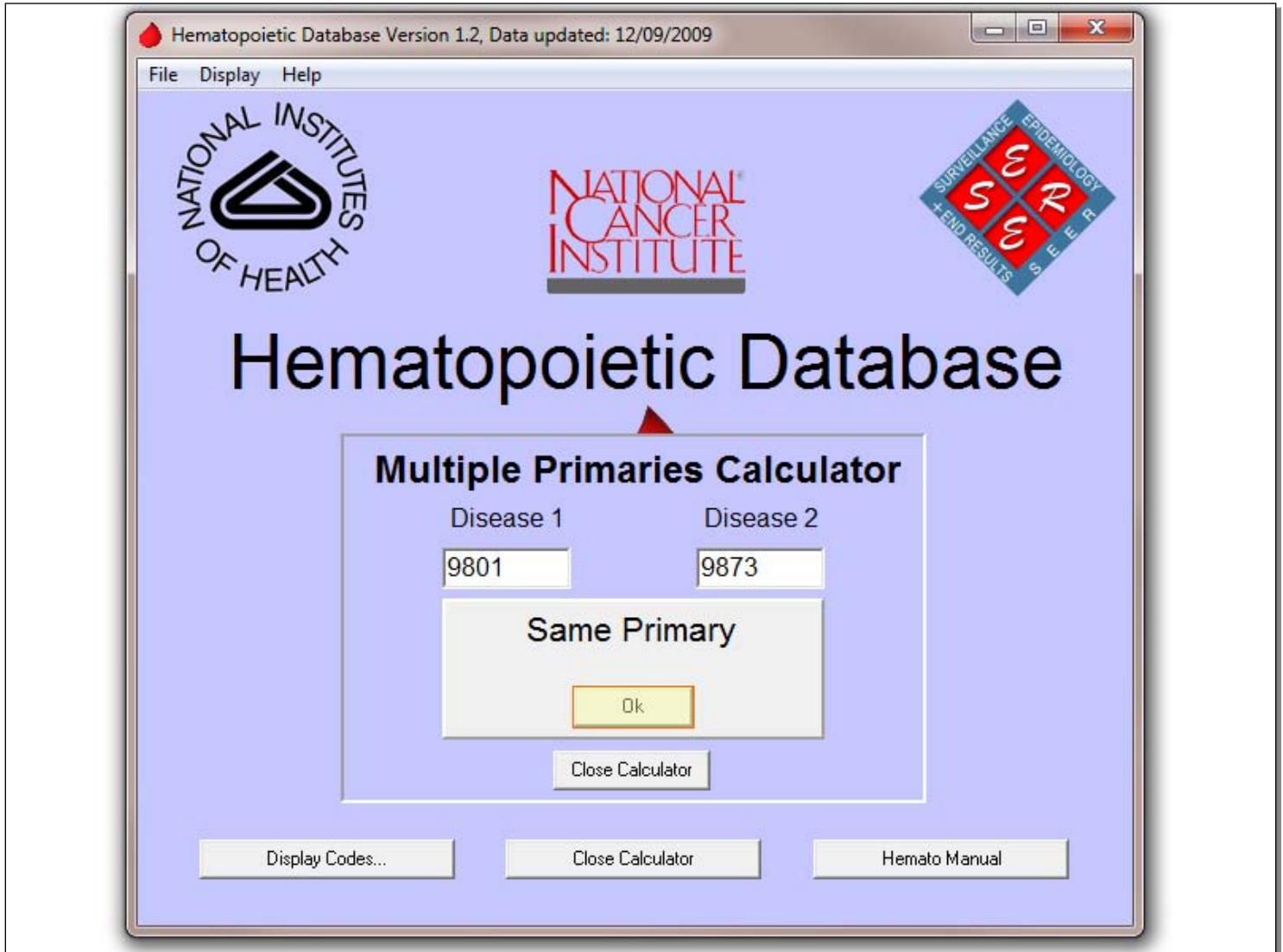
Slide 82 - Slide 82



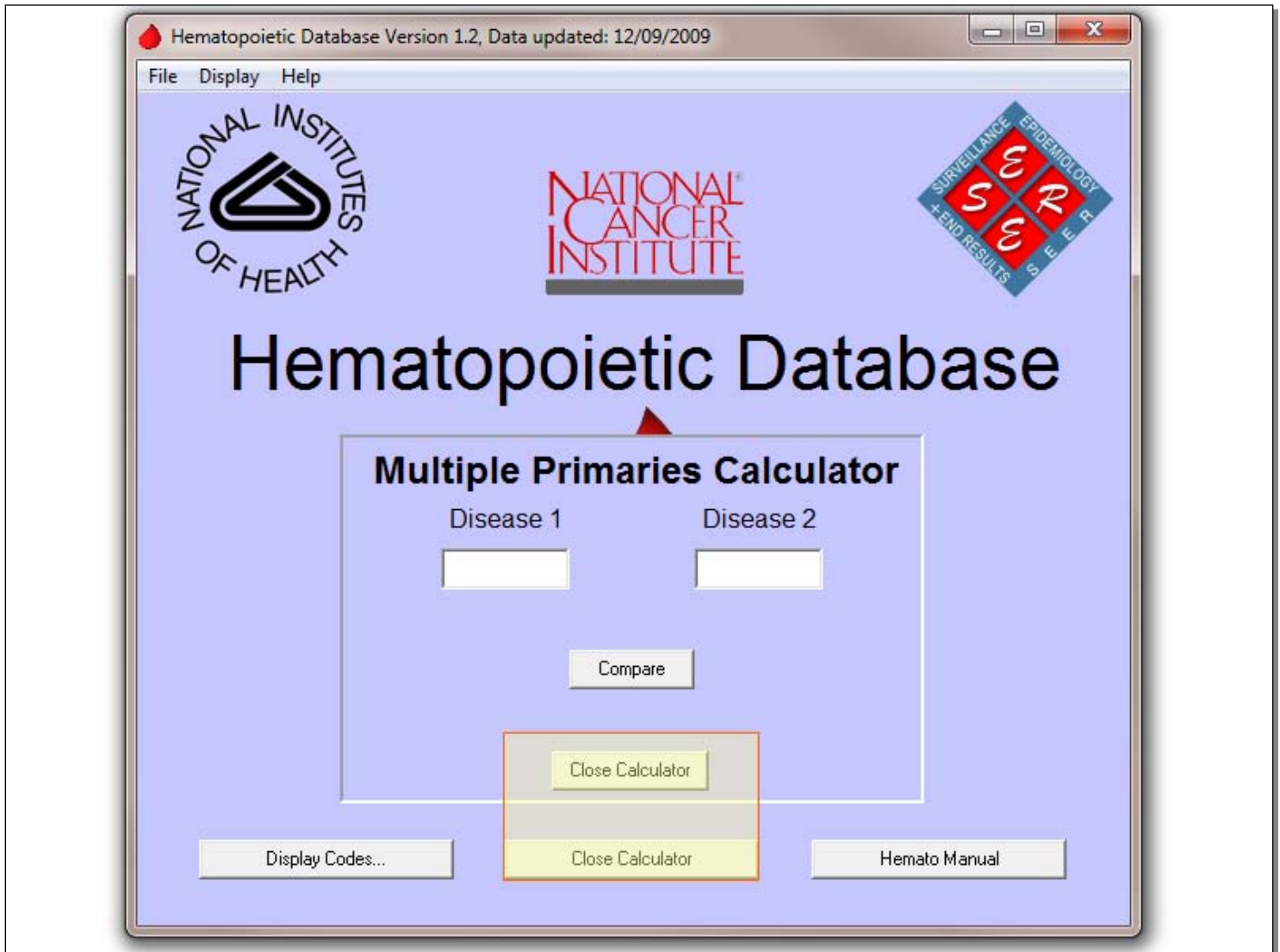
Slide 83 - Slide 83



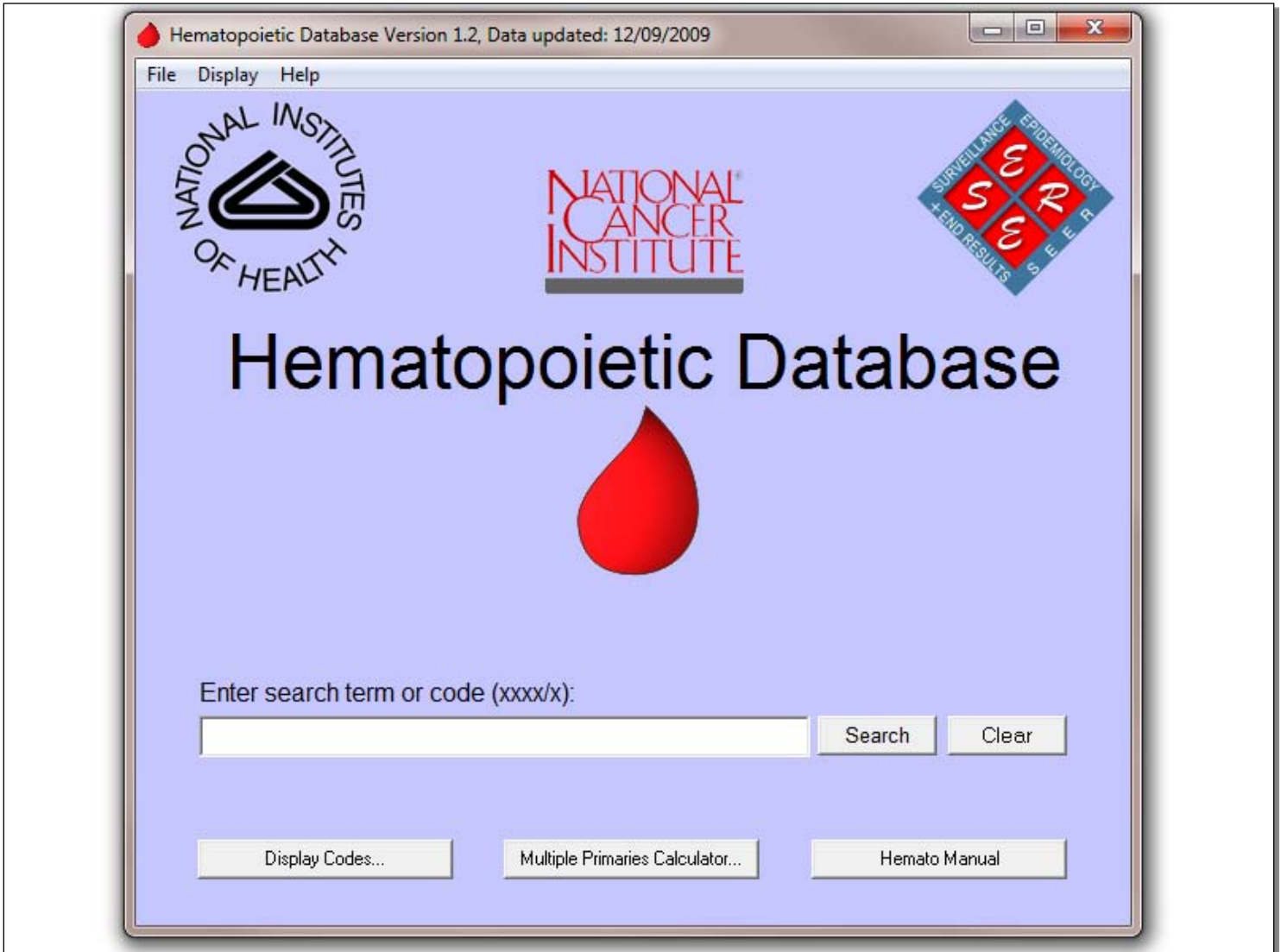
Slide 84 - Slide 84



Slide 85 - Slide 85

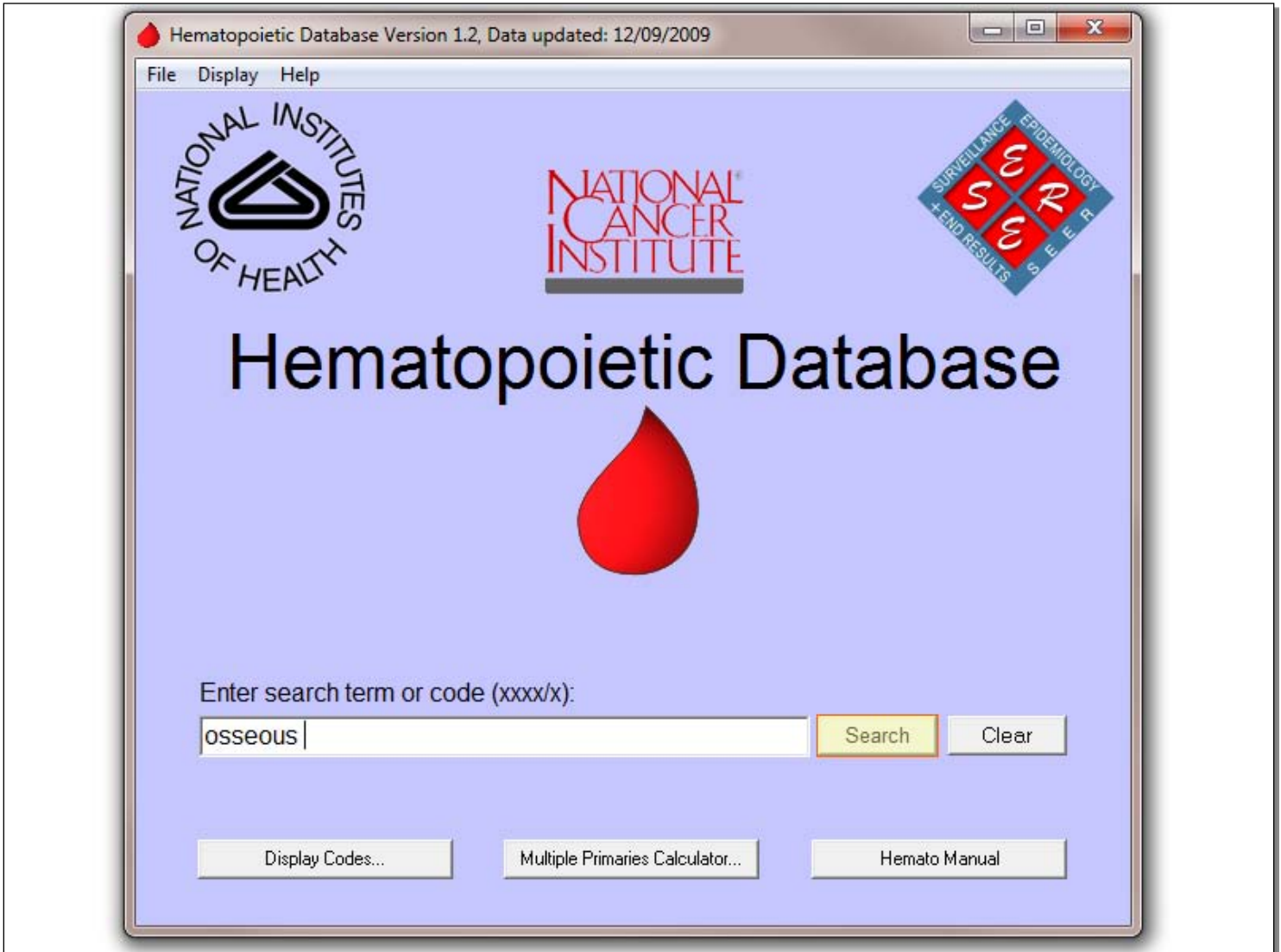


Slide 86 - Slide 86

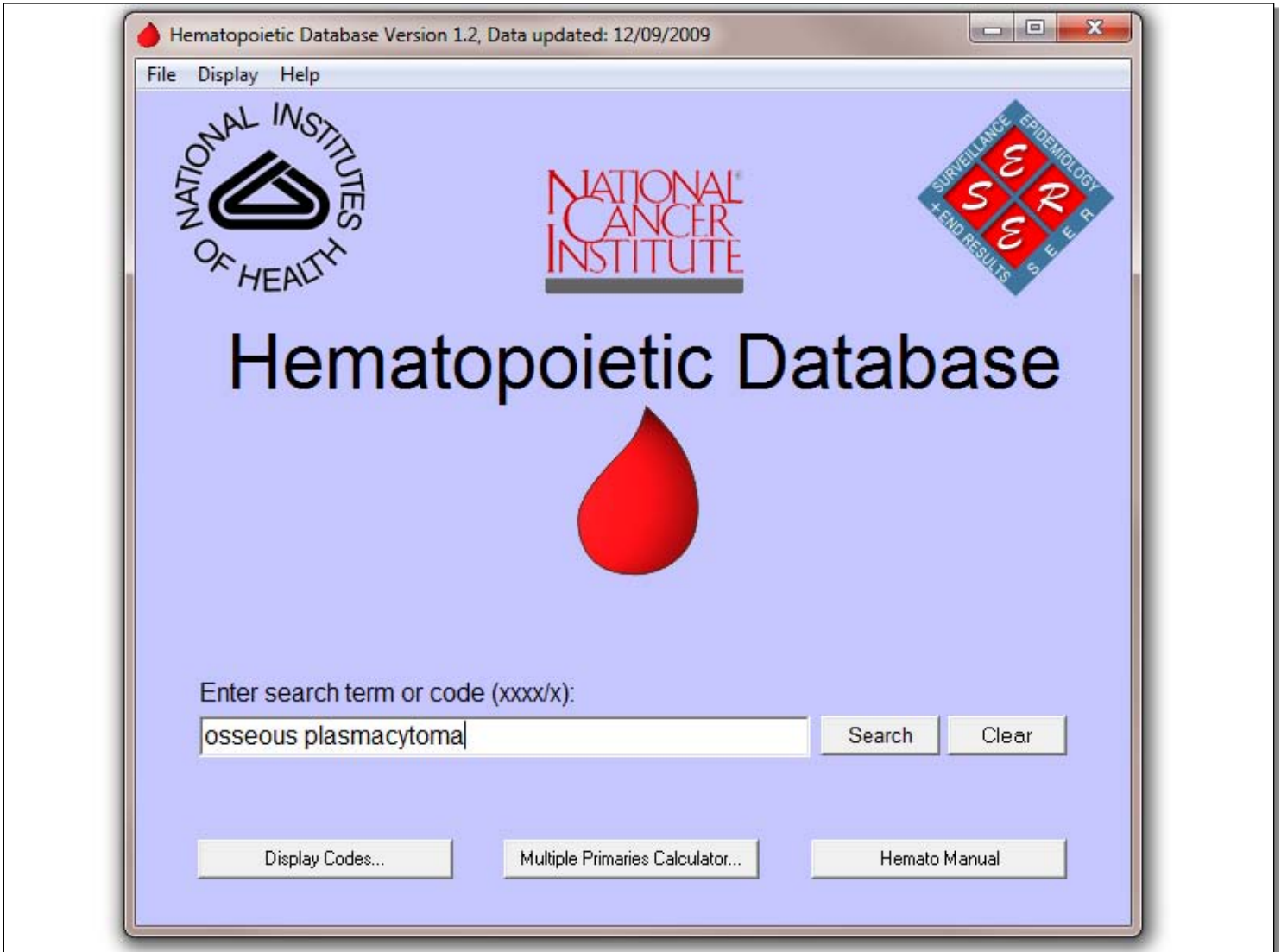




Slide 87 - Slide 87



Slide 88 - Slide 88





Slide 89 - Slide 89

Animation  
(60 x 60  
(X:321  
Y:99)

Search Results
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File Help

Your search for " **osseous plasmacytoma**" found **4** results.  
 Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
<b>Osseous plasmacytoma</b>	9731/3	Yes
Solitary plasmacytoma of bone	9731/3	Yes
Extrasosseous plasmacytoma	9734/3	Yes
Medullary plasmacytoma	9732/3	Yes

**ICD-O-3 Code:** 9731/3      **Preferred Term:** Solitary plasmacytoma of bone

**Definition**

A type of cancer that begins in the plasma cells (white blood cells that produce antibodies). A plasmacytoma may turn into multiple myeloma. Clonal proliferation of plasma cells cytologically and immunophenotypically identical to those of plasma cell myeloma but manifesting as localized osseous growth. Most common sites in the

**Alternate Names**

Osseous plasmacytoma  
 Plasma cell tumor  
 Plasmacytoma of bone  
 Plasmacytoma, NOS  
 Solitary plasmacytoma

Select the fields you wish to display:

<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

Back
Display
Print Screen

Slide 90 - Slide 90

The screenshot shows a 'Search Results' window with a menu bar (File, Help) and a search summary: 'Your search for " osseous plasmacytoma" found 4 results. Select your disease of Interest'. Below this is a table with three columns: 'Matched Term', 'ICD-O-3 Code', and 'Reportable'. The table lists four terms: 'Osseous plasmacytoma', 'Solitary plasmacytoma of bone', 'Extrasosseous plasmacytoma', and 'Medullary plasmacytoma'. A pop-up dialog box is overlaid on the window, containing the text 'See Module 2/PH 5, PH 6' and an 'OK' button. Below the table, there are sections for 'ICD-O-3 Code:', 'Definition', 'Alternate Names', and a list of fields to display with checkboxes. At the bottom are 'Back', 'Display', and 'Print Screen' buttons.

Matched Term	ICD-O-3 Code	Reportable
Osseous plasmacytoma	9731/3	Yes
Solitary plasmacytoma of bone	9731/3	Yes
Extrasosseous plasmacytoma	9734/3	Yes
Medullary plasmacytoma	9732/3	Yes

ICD-O-3 Code: Solitary plasmacytoma of bone

Definition: plasma cell tumor; no evidence of other sites; no hypercalcemia; no renal failure; no hypercalcemia

in random bone marrow biopsies; examination; absence of renal

Alternate Names: Osseous plasmacytoma, Plasma cell tumor, Plasmacytoma of bone, Plasmacytoma, NOS, Solitary plasmacytoma

Select the fields you wish to display:

- All
- Disease genetics data
- Treatments
- Definitive diagnostic methods
- Disease Immunophenotyping
- Transformations

Buttons: Back, Display, Print Screen

Slide 91 - Slide 91

The screenshot shows a web-based medical database interface for 'Solitary plasmacytoma of bone'. The window has a title bar with a red fire icon and standard window controls. Below the title bar is a menu bar with 'File' and 'Help'. The main content area is divided into several sections:

- ICD-O-3 Code:** A text box containing '9731/3'.
- Preferred Term:** A text box containing 'Solitary plasmacytoma of bone'.
- Alternate Names:** A list box containing 'Osseous plasmacytoma', 'Plasma cell tumor', 'Plasmacytoma of bone', and 'Plasmacytoma NOS'.
- Definitions:** A text box containing 'A type of cancer that begins in the plasma cells (white blood cells that produce antibodies). A plasmacytoma may turn into multiple myeloma.'
- Primary Site:** A text box containing 'C400-C419'.
- Definitive Diagnostic Methods:** A text box containing 'Histological confirmation, Immunohistochemistry'.
- Disease Genetics Data:** A text box containing 'Ig clonal rearrangements, complex karyotypes with multiple chromosomal gains/losses; also translocations, deletions, mutations'.
- Disease Immunophenotyping:** A text box containing 'Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10 +occasionally'.
- Treatments:** A text box containing '(For more Treatment information, see [SEER®Rx](#))'.

At the bottom of the window are three buttons: 'Back to Results', 'Display Abstractor Notes', and 'Home'.

Slide 92 - Slide 92

**Solitary plasmacytoma of bone**

File Help

**ICD-O-3 Code:** 9731/3      **Preferred Term:** Solitary plasmacytoma of bone

**Alternate Names:** Plasmacytoma, NOS  
Solitary plasmacytoma

**Definitions:** A type of cancer that begins in the plasma cells (white blood cells that produce antibodies). A plasmacytoma may turn into multiple myeloma.

**Primary Site:** C400-C419

**Definitive Diagnostic Methods:** Histological confirmation, Immunohistochemistry

**Disease Genetics Data:** Ig clonal rearrangements, complex karyotypes with multiple chromosomal gains/losses; also translocations, deletions, mutations

**Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally

**Treatments** (For more Treatment information, see [SEER®Rx](#))

Back to Results      Display Abstractor Notes      Home

Slide 93 - Slide 93

The screenshot shows a web-based medical database interface for 'Solitary plasmacytoma of bone'. The window title is 'Solitary plasmacytoma of bone'. The interface includes a menu bar with 'File' and 'Help'. The main content area is divided into several sections:

- ICD-O-3 Code:** 9731/3
- Preferred Term:** Solitary plasmacytoma of bone
- Alternate Names:** Plasmacytoma, NOS; Solitary plasmacytoma
- Definitions:** A type of cancer that begins in the plasma cells (white blood cells that produce antibodies). A plasmacytoma may turn into multiple myeloma.
- Primary Site:** C400-C419
- Definitive Diagnostic Methods:** Histological confirmation, Immunohistochemistry
- Disease Genetics Data:** Ig clonal rearrangements, complex karyotypes with multiple chromosomal gains/losses; also translocations, deletions, mutations
- Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally
- Treatments:** (For more Treatment information, see [SEER®Rx](#))

At the bottom of the window, there are three buttons: 'Back to Results', 'Display Abstractor Notes', and 'Home'.

Slide 94 - Slide 94

The screenshot shows a web-based medical database interface for 'Solitary plasmacytoma of bone'. The window has a title bar with a red flame icon and standard window controls. The main content area is light blue and contains several sections:

- ICD-O-3 Code:** 9731/3
- Preferred Term:** Solitary plasmacytoma of bone
- Alternate Names:** Plasmacytoma, NOS; Solitary plasmacytoma
- Definitions:** A type of cancer that begins in the plasma cells (white blood cells that produce antibodies). A plasmacytoma may turn into multiple myeloma.
- Primary Site:** C400-C419
- Definitive Diagnostic Methods:** Histological confirmation, Immunohistochemistry
- Disease Genetics Data:** Ig clonal rearrangements, complex karyotypes with multiple chromosomal gains/losses; also translocations, deletions, mutations
- Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally
- Treatments:** (For more Treatment information, see [SEER®Rx](#))

At the bottom of the window are three buttons: 'Back to Results', 'Display Abstractor Notes', and 'Home'.

Slide 95 - Slide 95

The screenshot shows a web-based medical database interface for 'Solitary plasmacytoma of bone'. The window title is 'Solitary plasmacytoma of bone'. The interface includes a menu bar with 'File' and 'Help'. The main content area is organized into several sections:

- ICD-O-3 Code:** 9731/3
- Preferred Term:** Solitary plasmacytoma of bone
- Alternate Names:** Osseous plasmacytoma, Plasma cell tumor, Plasmacytoma of bone, Plasmacytoma NOS
- Definitions:** biopsies; no evidence of other bone lesions by radiographic examination; absence of renal failure; no hypercalcemia; no anemia.
- Primary Site:** C400-C419
- also translocations, deletions, mutations**
- Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally
- Treatments:** (For more Treatment information, see [SEER®Rx](#))  
Radiation
- Transformations:** Multiple myeloma

At the bottom of the window, there are three buttons: 'Back to Results', 'Display Abstractor Notes', and 'Home'.

## Slide 96 - Slide 96

The screenshot shows a Mozilla Firefox browser window displaying the SEER\*Rx website. The address bar shows the URL <http://www.seer.cancer.gov/tools/seerx/>. The page header features the National Cancer Institute logo and the text "National Cancer Institute" and "U.S. National Institute of Health". Below this is the "Surveillance Epidemiology and End Results" logo and the tagline "providing information on cancer statistics to help reduce the burden of this disease on the U.S. population". A navigation menu includes links for "Home", "About SEER", "Cancer Statistics", "Datasets & Software", and "Publications".

The main content area is titled "Information for Cancer Registrars" and is divided into two columns. The left column contains a list of links under the heading "Reporting Guidelines":

- [Data Submission Requirements](#)
- [Reporting Guidelines](#)
- [Casefinding Lists](#)
- [Coding and Staging Manuals](#)
- [Collaborative Staging Manual](#)
- [Hematopoietic & Lymphoid Neoplasm Project](#)
- [Historical Staging and Coding Manuals](#)
- [ICD-O-3 Coding Materials](#)
- [MP/H Rules](#)
- [Summary Staging Manual 2000](#)

The right column features the main heading "SEER\*Rx - Interactive Antineoplastic Drugs Database" with the subtext "Version 1.3.0 released May 1, 2009". Below this, there are two paragraphs of text:

SEER\*Rx was developed as a one-step lookup for coding oncology drug and regimen in cancer registries. The program is free and can be downloaded from this site. The data will be updated annually.

The information in this database is effective for cancer diagnoses made on January 1, 2009, and recoding of drugs from previous years is not required or recommended.

**Release Notes**

SEER\*Rx was updated on May 1, 2009. Information from 889 NCI-listed clinical trials, listed in Phrma.org's Oncology Drugs under development, NCI's drug information summary lists, two separate lists of current chemotherapy regimens, and 14 unduplicated inquiries from October 2008 through April 2009 was reviewed and incorporated into the update.

From this research 5 new drugs and 23 regimens were added. Some of the new drugs help people who encounter a new drug name in a clinical trial recognize that that particular drug is already in use.

At the bottom of the browser window, there is a search bar with the text "Find:" and a search button. Below the search bar are navigation controls: "Next", "Previous", "Highlight all", and "Match case".



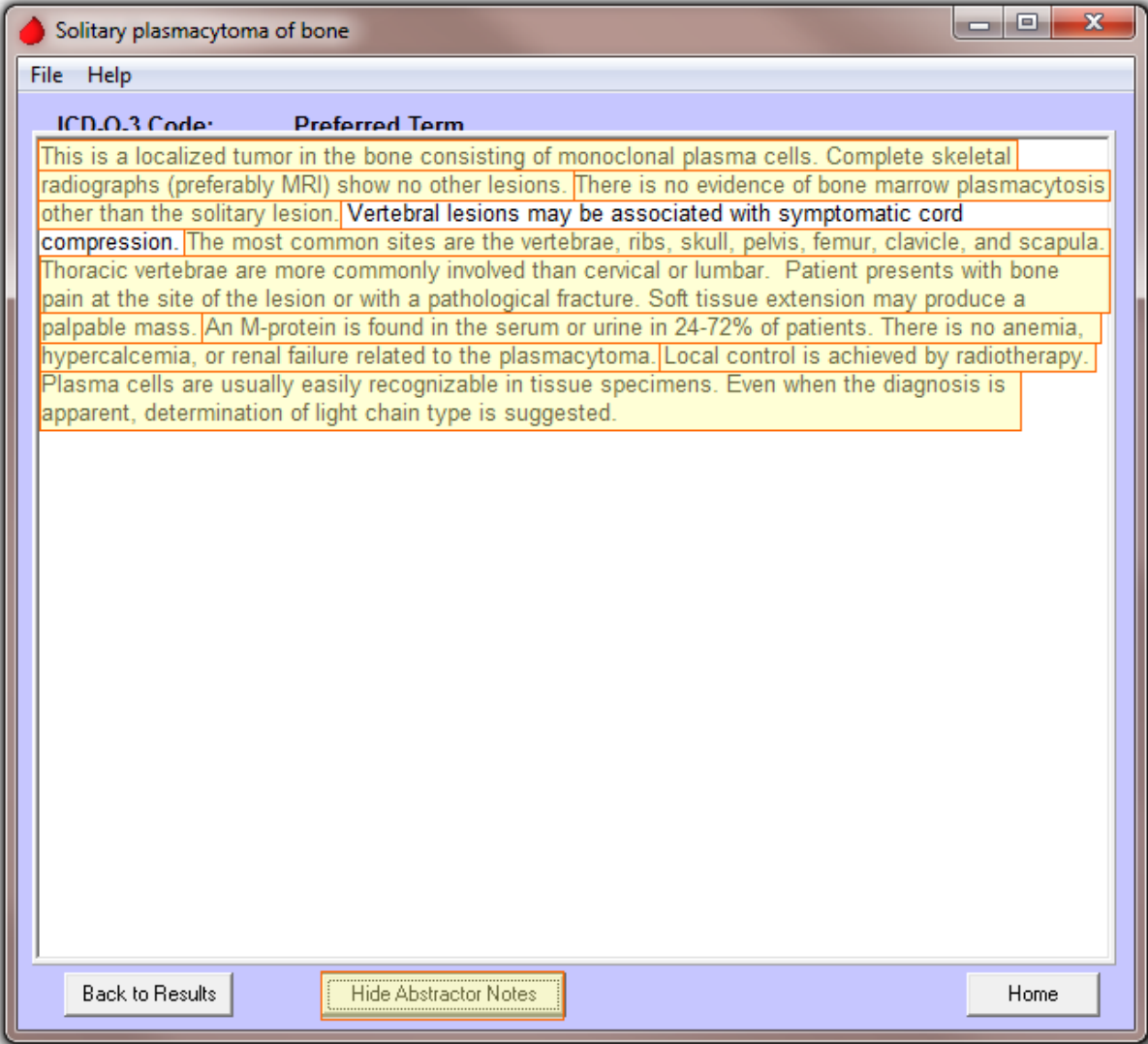
Slide 97 - Slide 97

The screenshot shows a web-based medical database interface for 'Solitary plasmacytoma of bone'. The window has a title bar with standard OS controls and a menu bar with 'File' and 'Help'. The main content area is organized into several sections:

- ICD-O-3 Code:** 9731/3
- Preferred Term:** Solitary plasmacytoma of bone
- Alternate Names:** Osseous plasmacytoma, Plasma cell tumor, Plasmacytoma of bone, Plasmacytoma NOS
- Definitions:** biopsies; no evidence of other bone lesions by radiographic examination; absence of renal failure; no hypercalcemia; no anemia.
- Primary Site:** C400-C419
- Additional Info:** also translocations, deletions, mutations
- Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally
- Treatments:** Radiation (For more Treatment information, see [SEER®Rx](#))
- Transformations:** Multiple myeloma

At the bottom of the window, there are three buttons: 'Back to Results', 'Display Abstractor Notes', and 'Home'.

## Slide 98 - Slide 98



**Solitary plasmacytoma of bone**

File Help

**ICD.O-3 Code:**      **Preferred Term**

This is a localized tumor in the bone consisting of monoclonal plasma cells. Complete skeletal radiographs (preferably MRI) show no other lesions. There is no evidence of bone marrow plasmacytosis other than the solitary lesion. **Vertebral lesions may be associated with symptomatic cord compression.** The most common sites are the vertebrae, ribs, skull, pelvis, femur, clavicle, and scapula. Thoracic vertebrae are more commonly involved than cervical or lumbar. Patient presents with bone pain at the site of the lesion or with a pathological fracture. Soft tissue extension may produce a palpable mass. An M-protein is found in the serum or urine in 24-72% of patients. There is no anemia, hypercalcemia, or renal failure related to the plasmacytoma. Local control is achieved by radiotherapy. Plasma cells are usually easily recognizable in tissue specimens. Even when the diagnosis is apparent, determination of light chain type is suggested.

[Back to Results](#)      [Hide Abstractor Notes](#)      [Home](#)

Slide 99 - Slide 99

The screenshot shows a web-based interface for a medical database. The window title is "Solitary plasmacytoma of bone". It features a menu bar with "File" and "Help". The main content area is organized into several sections:

- ICD-O-3 Code:** 9731/3
- Preferred Term:** Solitary plasmacytoma of bone
- Alternate Names:** Osseous plasmacytoma, Plasma cell tumor, Plasmacytoma of bone, Plasmacytoma NOS
- Definitions:** biopsies; no evidence of other bone lesions by radiographic examination; absence of renal failure; no hypercalcemia; no anemia.
- Primary Site:** C400-C419
- also translocations, deletions, mutations**
- Disease Immunophenotyping:** Cytoplasmic Ig; surface Ig lacking; CD19-, CD20-, CD38+, CD79a+CD138+, CD56/58+, CD10+occasionally
- Treatments:** (For more Treatment information, see [SEER®Rx](#))  
Radiation
- Transformations:** Multiple myeloma

At the bottom of the window, there are three buttons: "Back to Results", "Display Abstractor Notes", and "Home".

Slide 100 - Slide 100

Search Results
\_ □ ×

File Help

Your search for " **osseous plasmacytoma**" found **4** results.  
 Select your disease of Interest

Matched Term	ICD-O-3 Code	Reportable
Osseous plasmacytoma	9731/3	Yes
Solitary plasmacytoma of bone	9731/3	Yes
Extrasosseous plasmacytoma	9734/3	Yes
Medullary plasmacytoma	9732/3	Yes

**ICD-O-3 Code:** 9731/3      **Preferred Term:** Solitary plasmacytoma of bone

**Definition**

plasma cell tumor; absence of a plasma cell infiltrate in random bone marrow biopsies; no evidence of other bone lesions by radiographic examination; absence of renal failure; no hypercalcemia; no anemia.

**Alternate Names**

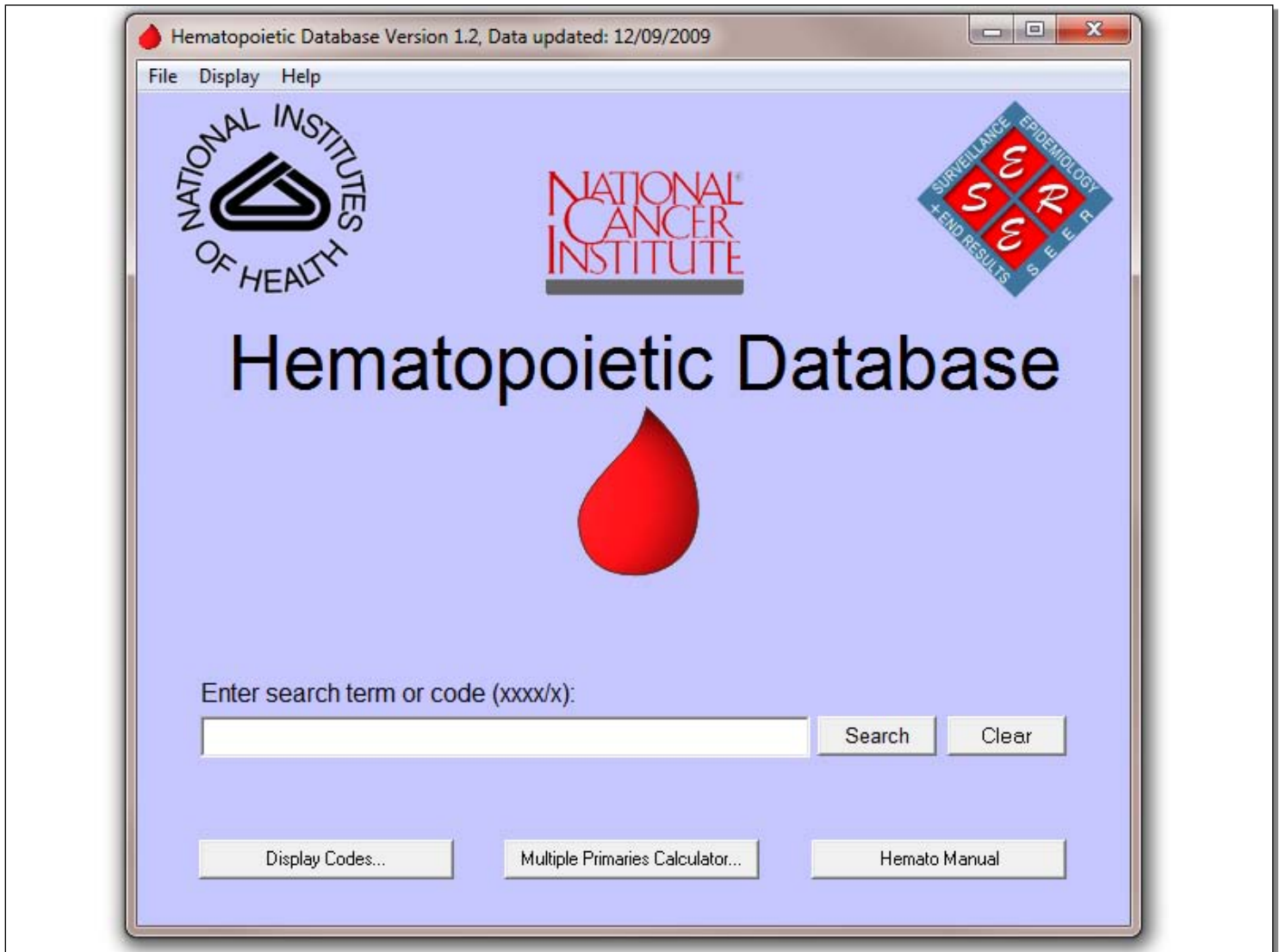
Osseous plasmacytoma  
 Plasma cell tumor  
 Plasmacytoma of bone  
 Plasmacytoma, NOS  
 Solitary plasmacytoma

Select the fields you wish to display:

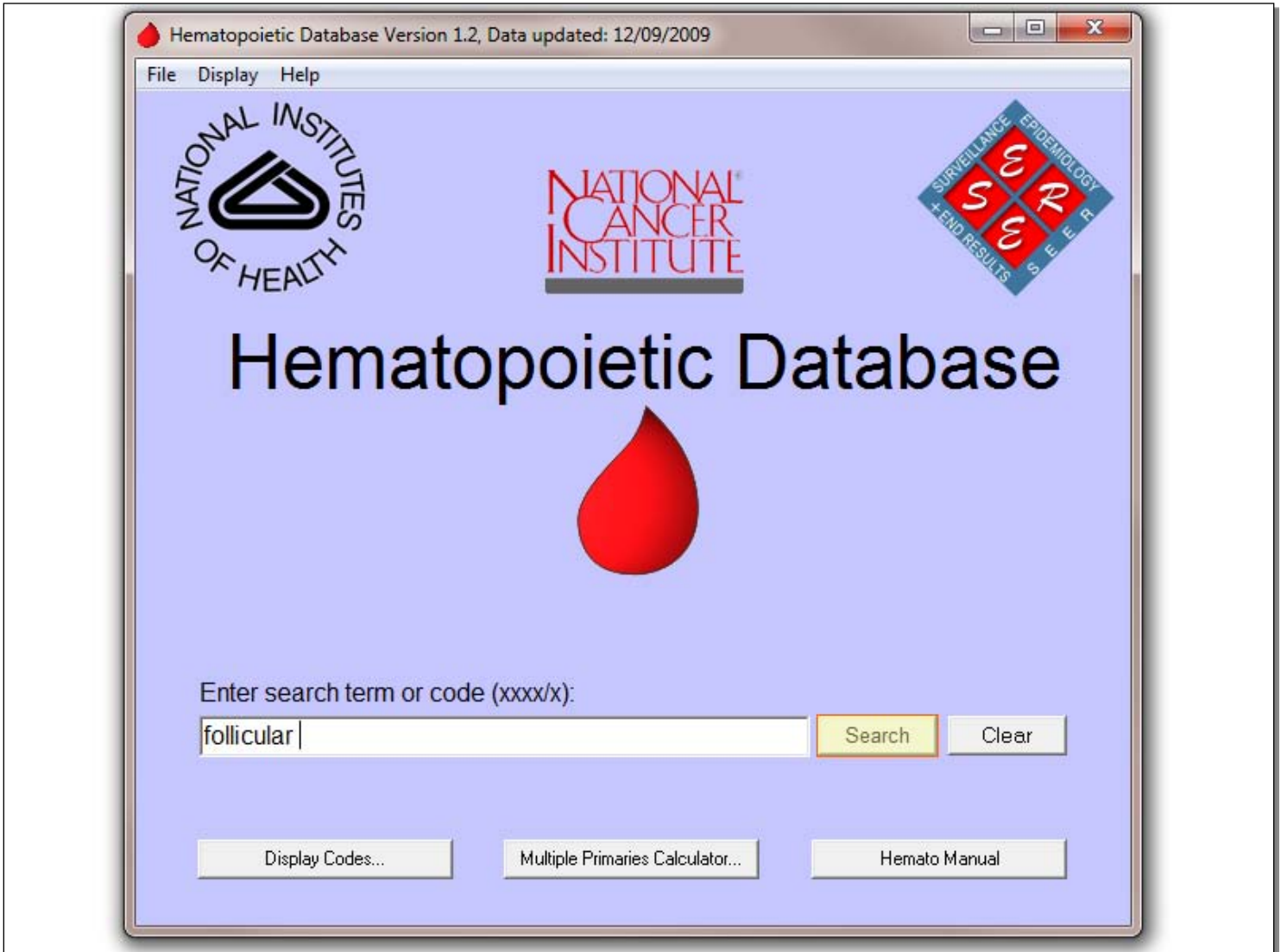
<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

Back
Display
Print Screen

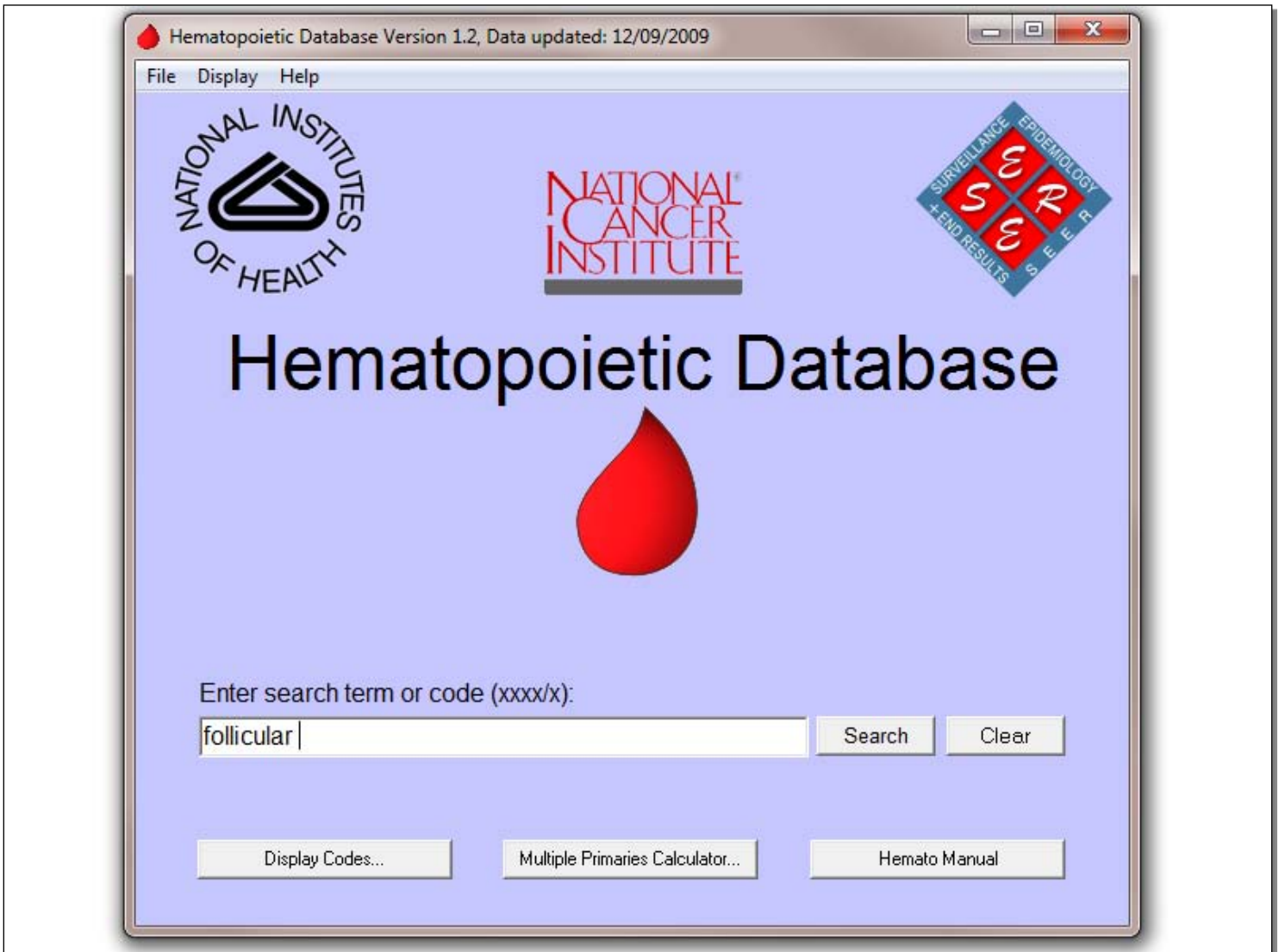
Slide 101 - Slide 101



Slide 102 - Slide 102



Slide 103 - Slide 103



Slide 104 - Slide 104

Search Results
\_ □ ×

File Help

Your search for "follicular lymphoma" found 77 results.  
 Select your disease of interest

Matched Term	ICD-O-3 Code	Reportable
Follicular lymphoma	9690/3	Yes
Follicular lymphoma, grade 3	9698/3	Yes
Follicular lymphoma, grade 1	9695/3	Yes
Follicular lymphoma, grade 2	9691/3	Yes
Follicular lymphoma, grade 3A	9698/3	Yes
Follicular lymphoma, grade 3B	9698/3	Yes

**ICD-O-3 Code:** 9690/3      **Preferred Term:** Follicular lymphoma

**Definition**

B-cell malignancy of follicle center cells with at least partial follicular growth pattern, centrocyte (small cleaved cell) predominant with centroblasts (large non-cleaved cells) in minority. Neoplastic follicles closely packed and effacing nodal architecture, neoplastic cells with varying sclerosis between follicles.

**Alternate Names**

Diffuse follicular lymphoma  
 Extranodal follicular lymphoma  
 FL  
 Follicle center cell lymphoma  
 Follicular Lymphoma, NOS

Select the fields you wish to display:

<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

Back
Display
Print Screen



Slide 105 - Slide 105

The screenshot shows a web application window titled "Search Results" with a search for "follicular lymphoma" yielding 77 results. A table lists several matched terms with their ICD-O-3 codes and reportability. A pop-up dialog box is overlaid on the page, displaying the text "See Module 6/PH 16, PH 17" and an "OK" button. The background window includes sections for "ICD-O-3 Code", "Definition", "Alternate Names", and a list of fields to display.

Matched Term	ICD-O-3 Code	Reportable
Follicular lymphoma	9690/3	Yes
Follicular lymphoma, grade 3	9698/3	Yes
Follicular lymphoma, grade 1	9695/3	Yes
Follicular lymphoma, grade 2	9691/3	Yes
Follicular lymphoma, grade 3A	9698/3	Yes
Follicular lymphoma, grade 3B	9698/3	Yes

**ICD-O-3 Code:** 9690/3

**Definition:** B-cell malignancy of the lymphoid system characterized by a diffuse growth pattern, centrocyte (small cleaved cells) in minority. Neoplastic cells with partial follicular growth pattern, centrocytes (large non-cleaved cells) and effacing nodal architecture, etc.

**Alternate Names:** Diffuse follicular lymphoma, Extranodal follicular lymphoma, FL, Follicle center cell lymphoma, Follicular Lymphoma, NOS

Select the fields you wish to display:

- All
- Disease genetics data
- Treatments
- Definitive diagnostic methods
- Disease Immunophenotyping
- Transformations

Buttons: Back, Display, Print Screen

Pop-up Dialog: See Module 6/PH 16, PH 17, OK



## Slide 107 - Slide 107

**Follicular lymphoma**

File Help

ICD.O-3 Code:	Preferred Term
	<p>Follicular lymphoma, NOS histology is a generic disease description. DCO cases or path report only cases usually stay in this classification. The NOS histology may be the working diagnosis. Further review of the medical record should be done to look for the tests listed as definitive diagnosis. The more specific diagnoses are: follicular lymphoma, grade 1; follicular lymphoma, grade 2; and follicular lymphoma, grade 3. When a more specific diagnosis is identified, the histology should be changed to the more specific neoplasm name and code. See the histology tables for more information on NOS and more specific histologies.</p> <p>Follicular lymphoma (FL) predominantly involves lymph nodes, but also spleen, bone marrow (BM), peripheral blood (PB) and Waldeyer ring. Less commonly, FL may involve non-hematopoietic extranodal sites such as gastrointestinal tract or soft tissue; this usually occurs in a setting of widespread nodal disease. FL may occasionally be primary in extranodal sites including skin, GI tract, particularly the duodenum, ocular adnexa, breast, and testis. Most patients present with widespread disease, including peripheral and central (abdominal and thoracic) lymphadenopathy and splenomegaly. The BM is involved in 40-70%. Only 1/3 of patients present with stage I or II at the time of diagnosis. FL has been graded according to the proportion of large cells (centroblasts). Studies suggest this histologic grading predicts clinical outcome, with more large cells behaving more aggressively and having a higher likelihood of progression to diffuse large cell lymphoma. When any area of diffuse large-B-cell lymphoma (DLBCL) is present in a FL the disease should be reported as diffuse large B-cell lymphoma (See PH rules).</p> <p>There are three variants of FL: pediatric follicular lymphoma, primary intestinal follicular lymphoma, and other extranodal follicular lymphomas.</p> <p>Pediatric follicular lymphoma involves cervical lymph nodes, other peripheral lymph nodes, or Waldeyer ring. Other extranodal involvement may occur. Children with FL typically have early stage disease. Pediatric FL lymphoma typically lacks BCL2 protein expression and t(14;15). Most are grade 3.</p>

Back to Results    Hide Abstractor Notes    Home

## Slide 108 - Slide 108

**Follicular lymphoma**

File Help

**ICD-O-3 Code:**      **Preferred Term**

splenomegaly. The BM is involved in 40-70%. Only 1/3 of patients present with stage I or II at the time of diagnosis. FL has been graded according to the proportion of large cells (centroblasts). Studies suggest this histologic grading predicts clinical outcome, with more large cells behaving more aggressively and having a higher likelihood of progression to diffuse large cell lymphoma. When any area of diffuse large-B-cell lymphoma (DLBCL) is present in a FL the disease should be reported as diffuse large B-cell lymphoma (See PH rules).

There are three variants of FL: pediatric follicular lymphoma, primary intestinal follicular lymphoma, and other extranodal follicular lymphomas.

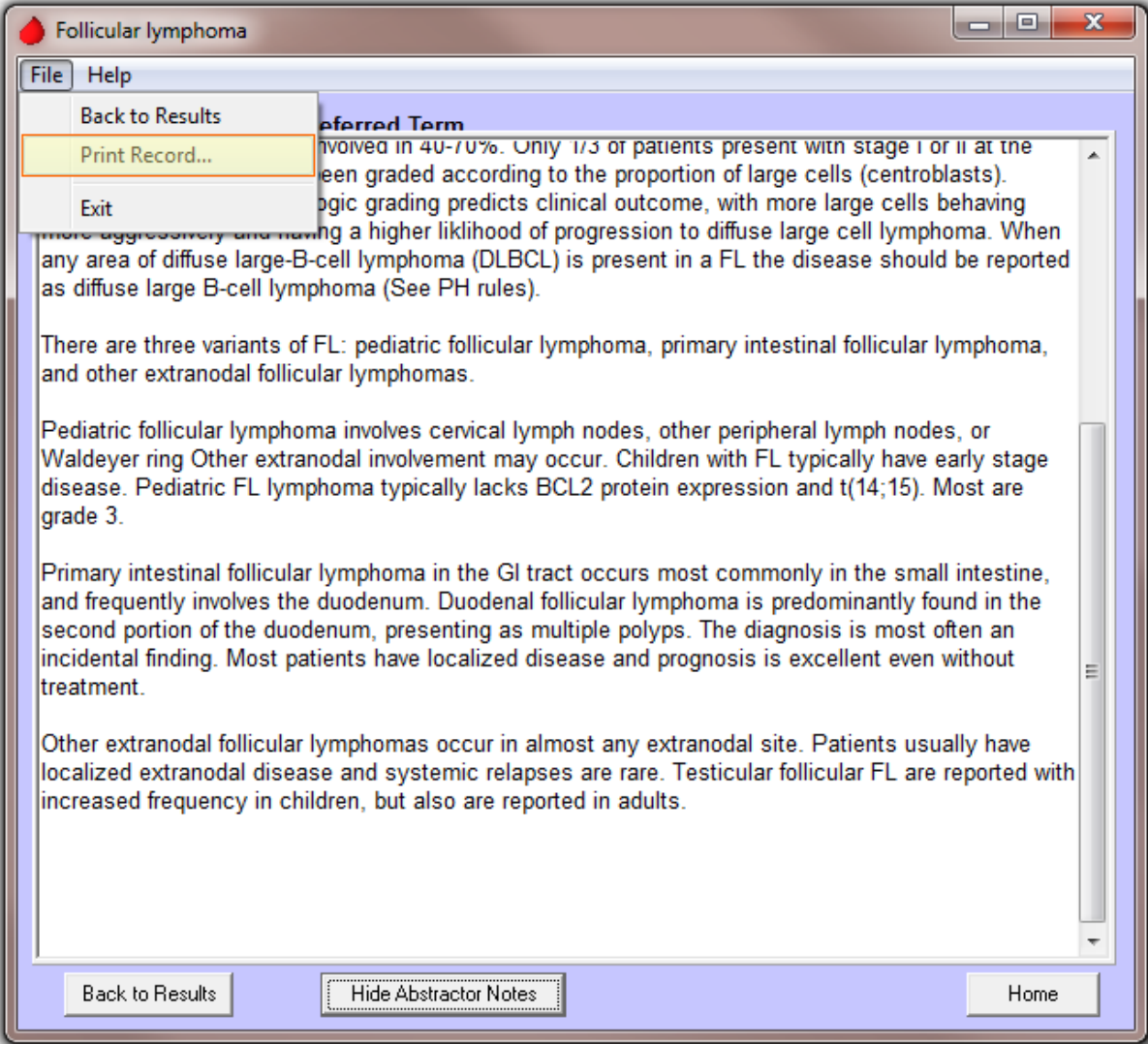
Pediatric follicular lymphoma involves cervical lymph nodes, other peripheral lymph nodes, or Waldeyer ring. Other extranodal involvement may occur. Children with FL typically have early stage disease. Pediatric FL lymphoma typically lacks BCL2 protein expression and t(14;15). Most are grade 3.

Primary intestinal follicular lymphoma in the GI tract occurs most commonly in the small intestine, and frequently involves the duodenum. Duodenal follicular lymphoma is predominantly found in the second portion of the duodenum, presenting as multiple polyps. The diagnosis is most often an incidental finding. Most patients have localized disease and prognosis is excellent even without treatment.

Other extranodal follicular lymphomas occur in almost any extranodal site. Patients usually have localized extranodal disease and systemic relapses are rare. Testicular follicular FL are reported with increased frequency in children, but also are reported in adults.

Back to Results      Hide Abstractor Notes      Home

## Slide 109 - Slide 109



The screenshot shows a web browser window titled "Follicular lymphoma". The window has a menu bar with "File" and "Help". The "File" menu is open, showing options: "Back to Results", "Print Record...", and "Exit". The "Print Record..." option is highlighted. The main content area displays text under the heading "Preferred Term".

**Preferred Term**

involved in 40-70%. Only 1/3 of patients present with stage I or II at the time of diagnosis. The disease has been graded according to the proportion of large cells (centroblasts). Histologic grading predicts clinical outcome, with more large cells behaving more aggressively and having a higher likelihood of progression to diffuse large cell lymphoma. When any area of diffuse large-B-cell lymphoma (DLBCL) is present in a FL the disease should be reported as diffuse large B-cell lymphoma (See PH rules).

There are three variants of FL: pediatric follicular lymphoma, primary intestinal follicular lymphoma, and other extranodal follicular lymphomas.

Pediatric follicular lymphoma involves cervical lymph nodes, other peripheral lymph nodes, or Waldeyer ring. Other extranodal involvement may occur. Children with FL typically have early stage disease. Pediatric FL lymphoma typically lacks BCL2 protein expression and t(14;15). Most are grade 3.

Primary intestinal follicular lymphoma in the GI tract occurs most commonly in the small intestine, and frequently involves the duodenum. Duodenal follicular lymphoma is predominantly found in the second portion of the duodenum, presenting as multiple polyps. The diagnosis is most often an incidental finding. Most patients have localized disease and prognosis is excellent even without treatment.

Other extranodal follicular lymphomas occur in almost any extranodal site. Patients usually have localized extranodal disease and systemic relapses are rare. Testicular follicular FL are reported with increased frequency in children, but also are reported in adults.

At the bottom of the window, there are three buttons: "Back to Results", "Hide Abstractor Notes", and "Home".

## Slide 110 - Slide 110

**Follicular lymphoma**

File Help

- Back to Results
- Print Record...
- Exit

**Preferred Term**

involved in 40-70%. Only 1/3 of patients present with stage I or II at the time of diagnosis. The disease has been graded according to the proportion of large cells (centroblasts). Histologic grading predicts clinical outcome, with more large cells behaving more aggressively and having a higher likelihood of progression to diffuse large cell lymphoma. When any area of diffuse large-B-cell lymphoma (DLBCL) is present in a FL the disease should be reported as diffuse large B-cell lymphoma (See PH rules).

There are three variants of FL: pediatric follicular lymphoma, primary intestinal follicular lymphoma, and other extranodal follicular lymphomas.

Pediatric follicular lymphoma involves cervical lymph nodes, other peripheral lymph nodes, or Waldeyer ring. Other extranodal involvement may occur. Children with FL typically have early stage disease. Pediatric FL lymphoma typically lacks BCL2 protein expression and t(14;15). Most are grade 3.

Primary intestinal follicular lymphoma in the GI tract occurs most commonly in the small intestine, and frequently involves the duodenum. Duodenal follicular lymphoma is predominantly found in the second portion of the duodenum, presenting as multiple polyps. The diagnosis is most often an incidental finding. Most patients have localized disease and prognosis is excellent even without treatment.

Other extranodal follicular lymphomas occur in almost any extranodal site. Patients usually have localized extranodal disease and systemic relapses are rare. Testicular follicular FL are reported with increased frequency in children, but also are reported in adults.

Back to Results   Hide Abstractor Notes   Home

Slide 111 - Slide 111

The screenshot shows a web application window titled "Follicular lymphoma". The window has a menu bar with "File" and "Help". The main content area is divided into several sections:

- ICD-O-3 Code:** 9690/3
- Preferred Term:** Follicular lymphoma
- Alternate Names:** Diffuse follicular lymphoma, Extranodal follicular lymphoma, FL, Follicle center cell lymphoma
- Definitions:** B-cell malignancy of follicle center cells with at least partial follicular growth pattern, centrocyte (small cleaved cell) predominant with centroblasts (large non-cleaved cells) in minority. Neoplastic follicles closely packed and
- Primary Site:** N/A, see Help for details
- Definitive Diagnostic Methods:** FISH, Histological confirmation (with or without), Immunohistochemistry
- Disease Genetics Data:** IGH(VD-J) gene rearrangement, Translocation t(14;18)(q32;q21), BCL2 gene rearrangements, Heavy and light chains rearranged; t(14;18)(q32;q21)-85% with rearrangement of Bcl-2 gene
- Disease Immunophenotyping:** CD5-, CD43-, Sig+ (IgM+/-IgD, IgG), CD19, CD20, CD22, CD79a, BCL2+, BCL6+, CD10+
- Treatments:** (For more Treatment information, see [SEER®Rx](#))

At the bottom of the window, there are three buttons: "Back to Results", "Display Abstractor Notes", and "Home".

Slide 112 - Slide 112

Search Results
\_ □ ×

File Help

Your search for "follicular lymphoma" found 77 results.  
 Select your disease of interest

Matched Term	ICD-O-3 Code	Reportable
Follicular lymphoma	9690/3	Yes
Follicular lymphoma, grade 3	9698/3	Yes
Follicular lymphoma, grade 1	9695/3	Yes
Follicular lymphoma, grade 2	9691/3	Yes
Follicular lymphoma, grade 3A	9698/3	Yes
Follicular lymphoma, grade 3B	9698/3	Yes

**ICD-O-3 Code:** 9690/3      **Preferred Term:** Follicular lymphoma

**Definition**

B-cell malignancy of follicle center cells with at least partial follicular growth pattern, centrocyte (small cleaved cell) predominant with centroblasts (large non-cleaved cells) in minority. Neoplastic follicles closely packed and effacing nodal architecture, neoplastic cells with varying sclerosis between follicles.

**Alternate Names**

Diffuse follicular lymphoma  
 Extranodal follicular lymphoma  
 FL  
 Follicle center cell lymphoma  
 Follicular Lymphoma, NOS

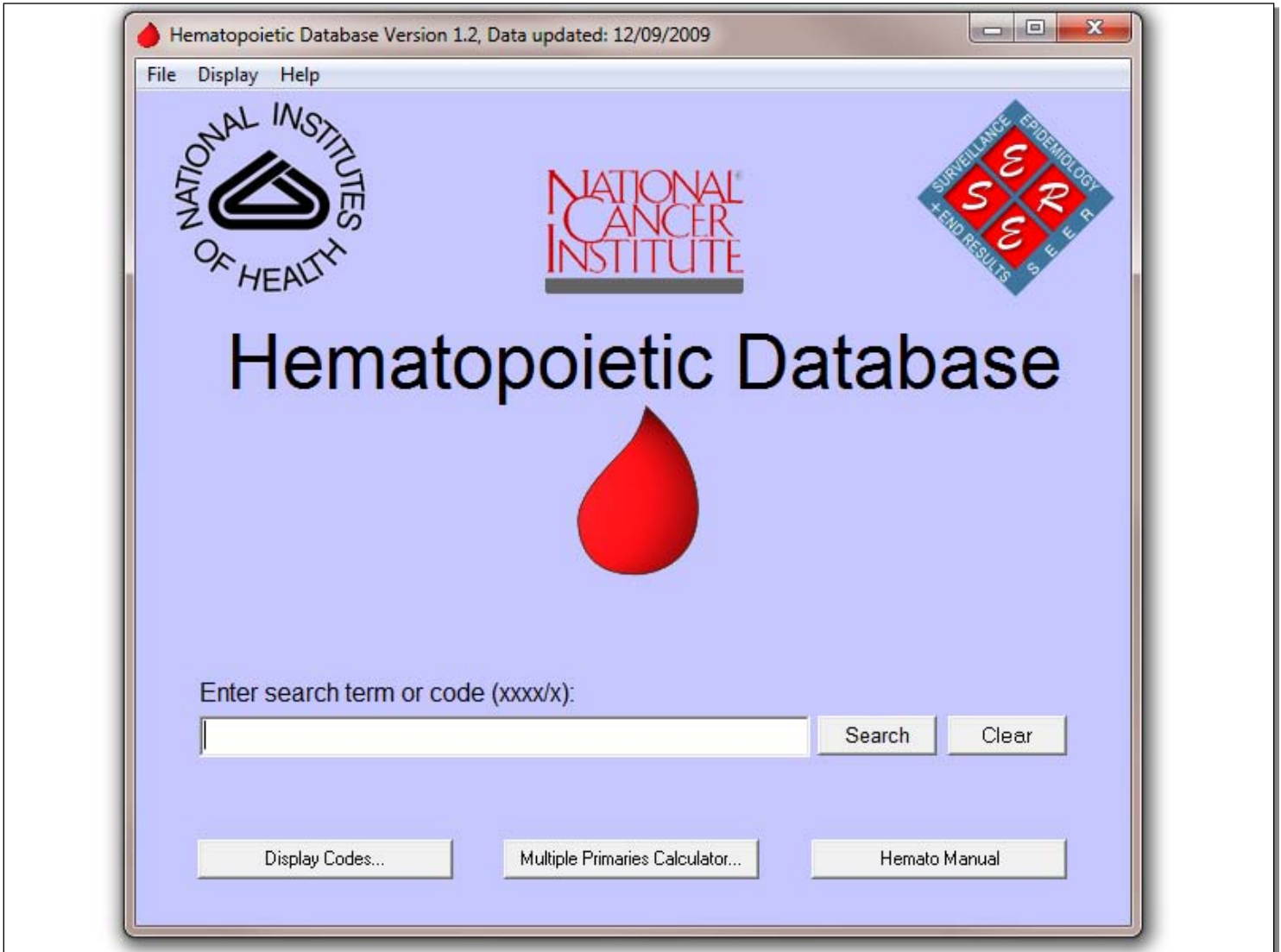
Select the fields you wish to display:

<input checked="" type="checkbox"/> All	<input checked="" type="checkbox"/> Disease genetics data	<input checked="" type="checkbox"/> Treatments
<input checked="" type="checkbox"/> Definitive diagnostic methods	<input checked="" type="checkbox"/> Disease Immunophenotyping	<input checked="" type="checkbox"/> Transformations

Back
Display
Print Screen



Slide 113 - Slide 113



## Slide 114 - Conclusion

# Conclusion

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- The new hematopoietic and lymphoid neoplasm rules go into effect for cases diagnosed **January 1, 2010, and after**

Animation  
(800 x 600)  
(X:0; Y:0)

- Email address for questions  
[askseerctr@imsweb.com](mailto:askseerctr@imsweb.com)

