

# CyberLAB® 7.3.0

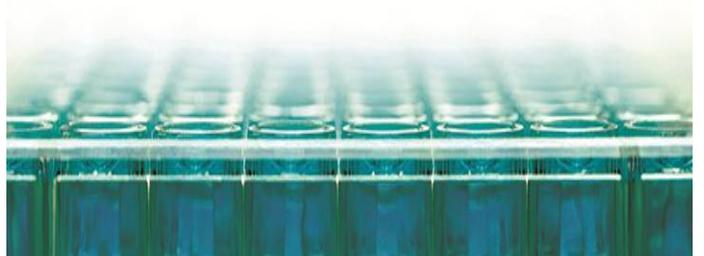
## New Features Guide Outline of ICD-10 Enhancements

Code: [W]ND [W]OUND  
DESCRIPTION: LEFT LEG  
MEDIA: BLOOD AGAR PLATE  
MACCONKEY  
CHOCOLATE AGAR

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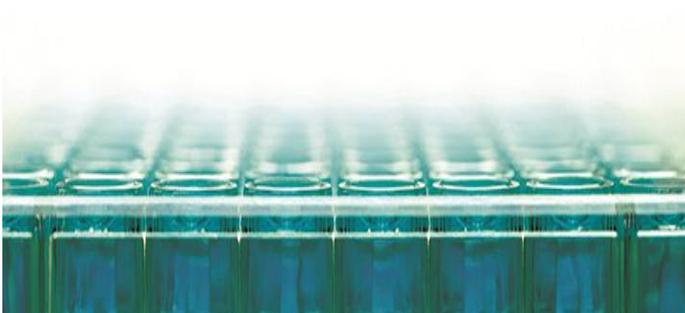
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CyberLAB now supports the use of ICD-10 Diagnosis codes at the same time supporting existing ICD-9 codes. ICD-10 is the latest revision of the ICD codes developed by the World Health Organization and is due to come into effect in the United States on October 1, 2014. Note that all entities covered by HIPAA must begin using ICD-10 codes on that date – this is not optional.

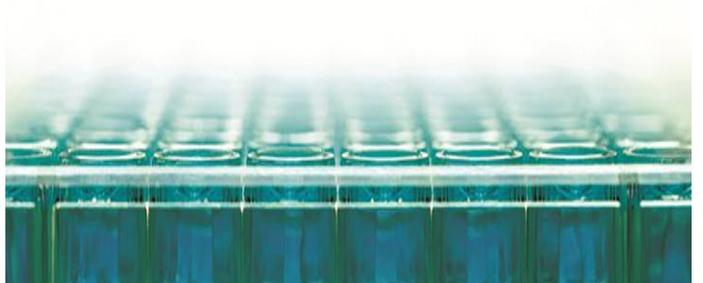
CyberLAB has been enhanced to equip our customers with the capabilities to fully support the ICD-10 transition. These features can be used to load and test the new ICD-10 codes once each customer has made their decisions on how to apply ICD-10 in their environment.

The Centers for Medicare & Medicaid Services (CMS) is a government organization which has major responsibility for promoting the adoption and use of health information technology in the nation's health care system. The CMS web-site has an ICD-10 Resource Center ([www.cms.gov/ICD10](http://www.cms.gov/ICD10)) which covers all of the important issues with specific sections to help providers, payers, vendors, and non-covered entities with the transition to ICD-10.

This New Feature involves multiple areas of CyberLAB, mostly from the structure of the data files that maintain the Diagnostic codes which are used by many core programs.

Note: This document does not include the changes to the program that will be managed by Aspyra support (such as loading the ICD10 table and setting the flags that are used to control which version is being used). Those are covered in a different support level document.

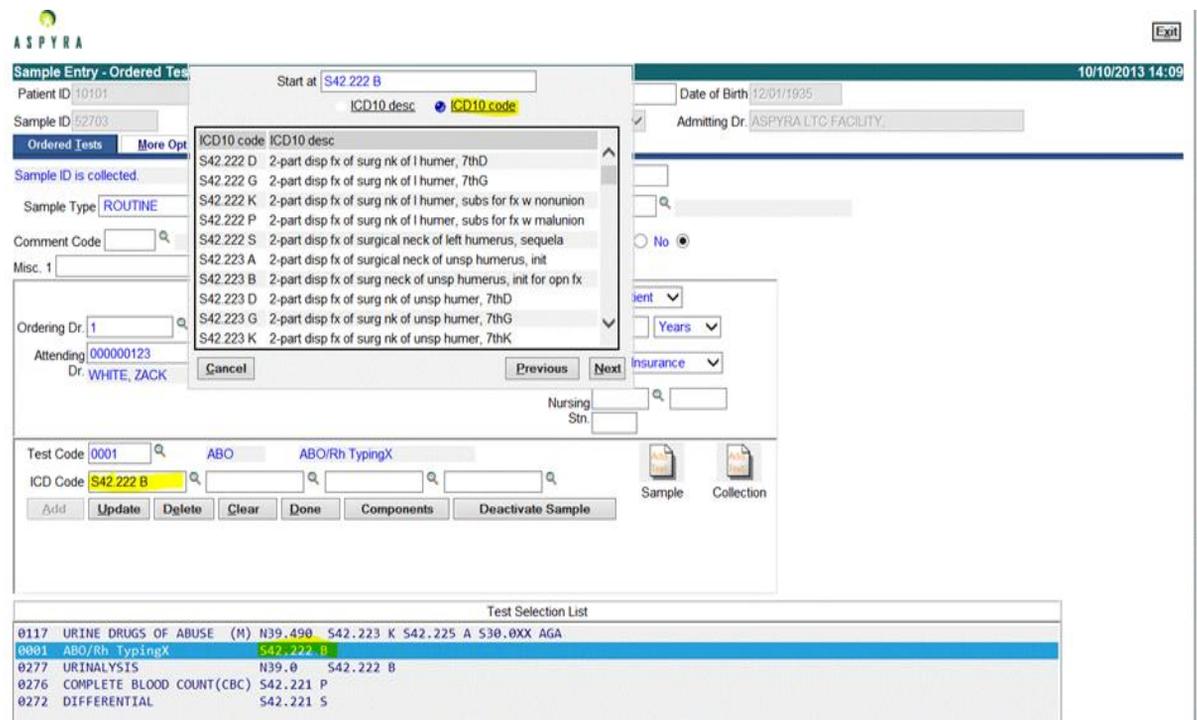
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## 1. Patient Entry

a. The changes to this revolve around the ICD Code entry during the entry/update of specific tests. Depending on the value of the global ICD Version flag ('09' or '10'), all displays of the ICD code will be in the format associated with that version. The Help screen provided in this area is also determined by the setting of this flag.

If a sample was entered in any version prior to 7.3.1, the displays will be in the ICD-9 format and the Help screen will be for the ICD-9 table. The ICD code can be entered in all 3 entry areas: Patient Entry, Batch Entry and Rapid Entry. The actual entry of the ICD code is similar in all of them as represented by the following example. (NFG#2-1)



The screenshot shows the ASPYRA Patient Entry interface. A dropdown menu is open, displaying a list of ICD10 codes and their descriptions. The selected code is S42.222 B. The interface includes fields for Patient ID, Sample ID, Sample Type (ROUTINE), Comment Code, Misc. 1, Ordering Dr. (WHITE, ZACK), and Admitting Dr. (ASPYRA LTC FACILITY). The Date of Birth is 12/01/1935. The Test Code is 0001, and the Test Name is ABO/Rh TypingX. The ICD Code field contains S42.222 B. Below the main form is a Test Selection List table.

Test Code	Test Name	ICD10 Code
0117	URINE DRUGS OF ABUSE (M)	N39.490 S42.223 K S42.225 A S30.0XX AGA
0001	ABO/Rh TypingX	S42.222 B
0277	URINALYSIS	N39.0 S42.222 B
0276	COMPLETE BLOOD COUNT(CBC)	S42.221 P
0272	DIFFERENTIAL	S42.221 S

## 2. Collection Verification

The changes to this revolve around the ICD Code entry during the entry/update of specific tests. Depending on the value of the global ICD Version flag ('09' or '10'), all displays of the ICD code will be in the format associated with that version. The Help screen provided in this area is also determined by the setting of this flag.

Collection records should not be carried over from an ICD9 entered mode, so there is no need to view Collection records in the ICD9 format once the global ICD Version flag has been set to '10'. Following is an example of the entry screen. (NFG#2-2)

ASPYRA Exit

10/10/2013 15:33

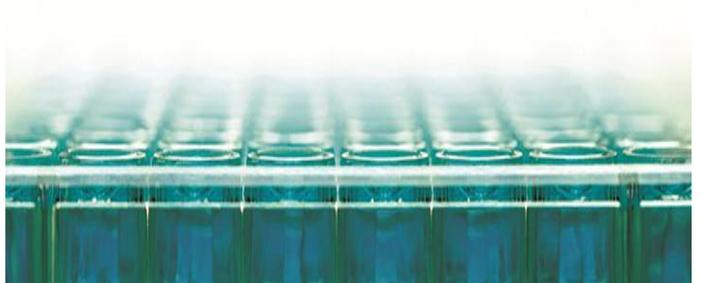
Sample ID 52712 Date of Birth 11/11/1940 Sex Male  
Patient ID 345 Patient Name ASPYRA, JOE

Test Selection List	
0276	COMPLETE BLOOD COUNT (CBC) R -02.0 T80.211A

Test code:  ICD Code:  ICD Code:  ICD Code:  ICD Code:

CBC COMPLETE BLOOD COUNT(

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### 3. Medical Necessity Rules

The diagnosis code definitions for ICD-10 values are stored in a new table, separate from the ICD-9 codes. The maintenance program has been modified to utilize the appropriate table based on the global ICD Version flag first, but it also allows for an override so that new ICD-10 rules may be entered prior to the official cutover to ICD-10.

Note: Support can enable an option called “Dual Entry” that will allow the system to use & bill for ICD9 while allowing the facility to setup ICD10 in advance. This switch will be enabled by default in your test environment and disabled by default in your live environment. Please contact Client Support if you desire this behavior to be changed. Following is an example of selecting the desired ICD code (NFG#2-3)

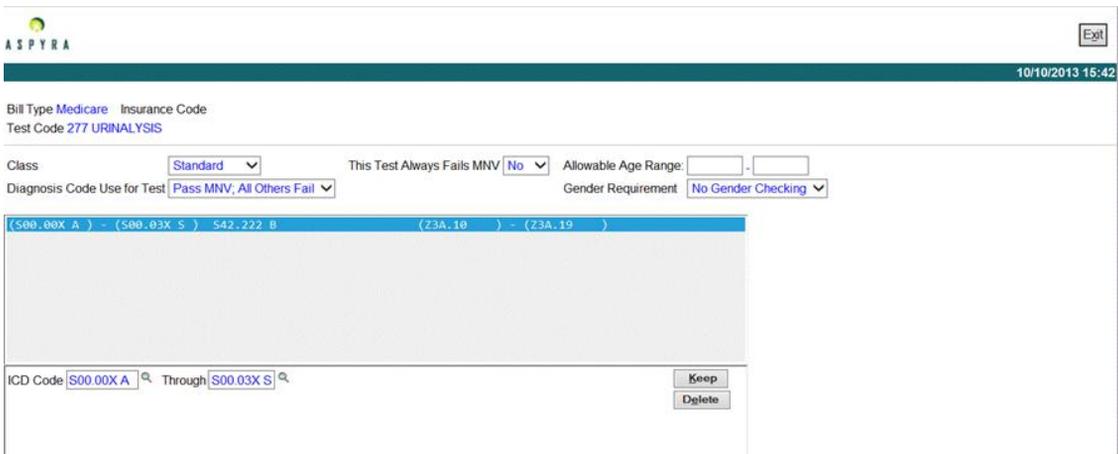


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Options **Rule Maintenance** ICD Version for this session **ICD10**

Bill Type **Medicare** Insurance Code

Following is an example of entering/maintaining the MNV Diagnosis records. (NFG#2-4)



ASPYRA Exit

10/10/2013 15:42

Bill Type **Medicare** Insurance Code

Test Code **277 URINALYSIS**

Class **Standard** This Test Always Fails MNV **No** Allowable Age Range:  -

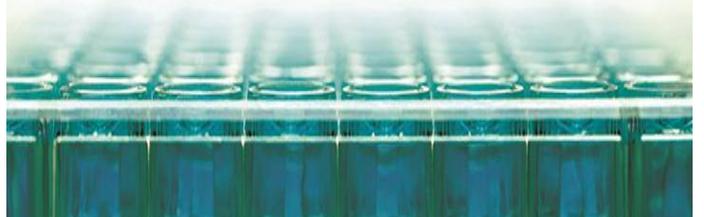
Diagnosis Code Use for Test **Pass MNV; All Others Fail** Gender Requirement **No Gender Checking**

(500.00X A) - (500.03X S) 542.222 B (Z3A.10) - (Z3A.19)

ICD Code  Through

**Keep**  
**Delete**

Both Rule Maintenance and Print MNV Rules List will be based on the ICD Version for this session as entered. Note: Before ICD-10 can be tested, MNV rules for ICD-10 must be setup. These rules are not related to ICD-9 rules and cannot be converted to ICD-10. They will need to be configured manually by a user skilled in defining ICD-10 rules in accordance with the CMS requirements.

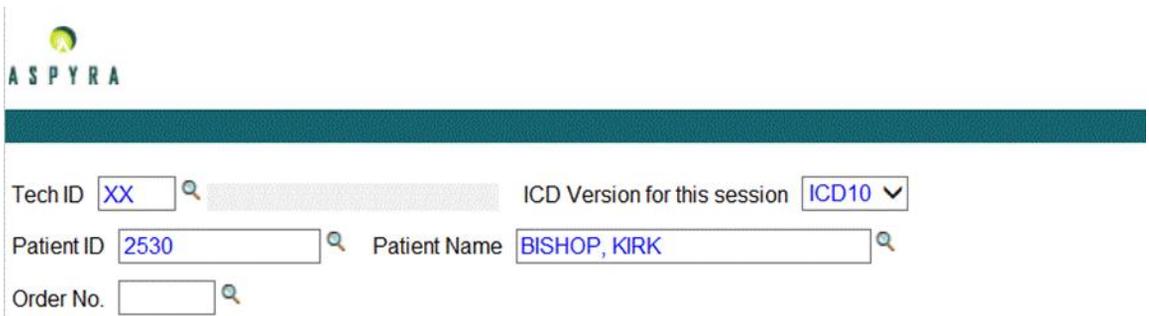


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**4. Standing Order Entry**

The diagnosis code definitions for ICD-10 values are stored in a new table, separate from the ICD-9 codes. The program has been modified to utilize the appropriate table based on the global ICD Version flag first, but it also allows for an override so that Standing Orders with ICD-10 codes may be entered prior to the official cutover to ICD-10.

Note: Standing Orders using ICD-9 codes will not be converted automatically to use ICD-10 codes. All Standing Orders in the system must be re-assigned the appropriate ICD-10 codes manually. Using the “Dual Entry” feature, simultaneous access can be maintained between both sets of Standing Orders ICD codes until all orders have been converted to ICD10 by a user skilled in selecting the correct ICD10 codes for the orders. Following is an example of selecting the desired ICD code (NFG#2-5)



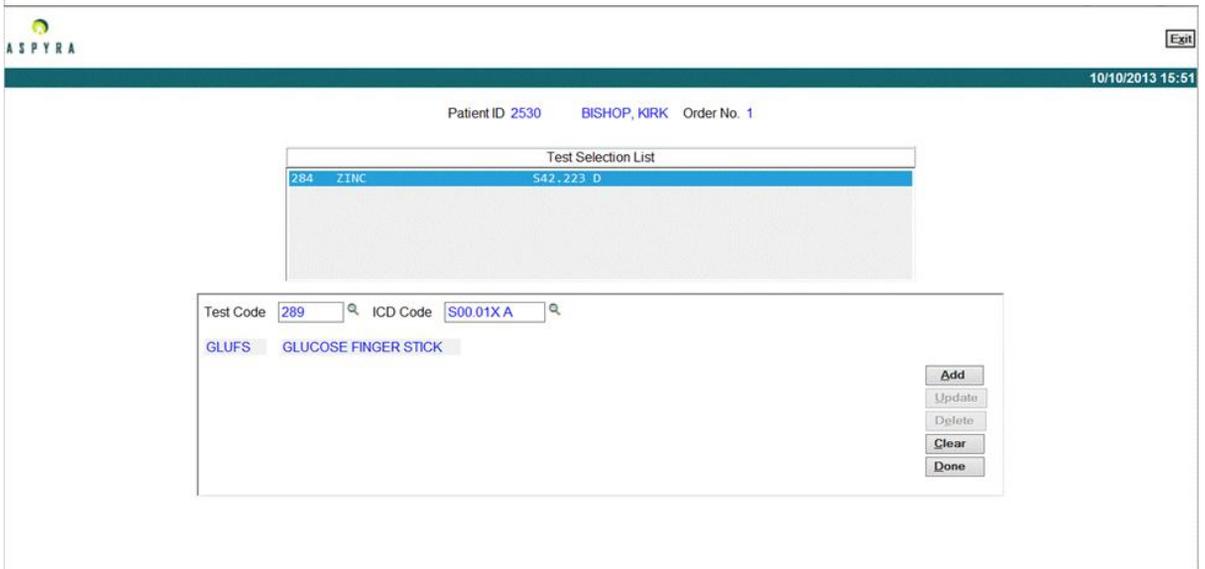
ASPYRA

Tech ID  ICD Version for this session

Patient ID  Patient Name

Order No.

Following is an example of entering/maintaining the Standing Order Diagnosis records. (NFG#2-6)



ASPYRA Exit

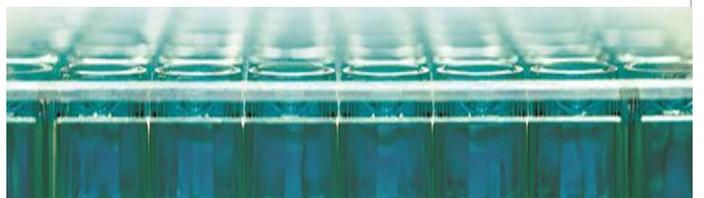
10/10/2013 15:51

Patient ID 2530    BISHOP, KIRK    Order No. 1

Test Selection List		
284	ZINC	S42.223 D

Test Code  ICD Code

GLUFS     GLUCOSE FINGER STICK



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## 6. Inbound/Outbound Interface

### a. HUB interface processor modules:

Since these interface modules, which are dealing with HL7 standards, don't access any database tables and are also not any product dependent, the format of the ICD version is controlled strictly inside the HUB parameter file associated with each interface.

The following new parameter line entries are added to handle both the current and the new ICD features.

SEND-DIAG-FORMAT=YES

The ICD code version for each diagnosis code will be sent in DG1-03.3 and/or in FT1-19.3 HL7 fields for outbound interfaces.

DEFAULT-DIAG- FORMAT=ICD9

DEFAULT-DIAG- FORMAT=ICD10

The default ICD code version can be defined if all of the diagnosis codes in the incoming and/or the outgoing HL7 messages are of the same format.

SEND-DIAG-ICD9-FORMAT=VALUE I9

SEND-DIAG-ICD10-FORMAT=VALUE I10

SEND-DIAG-ICD9-FORMAT=VALUE ICD9

SEND-DIAG-ICD10-FORMAT=VALUE ICD10

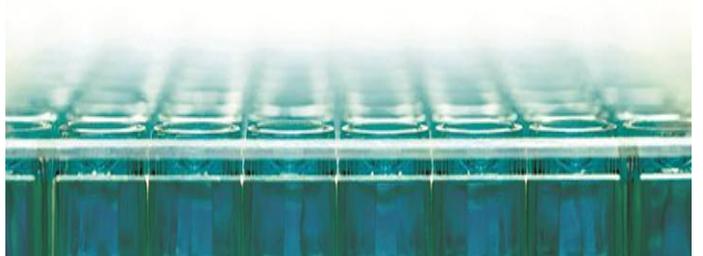
SEND-DIAG-ICD9-FORMAT=VALUE 9

SEND-DIAG-ICD10-FORMAT=VALUE 0

The user specific literal identifying the diagnosis code for both ICD-9 and ICD-10 versions can be defined to be sent in the DG1-03.3 and/or in the FT1-19.3 HL7 fields for each diagnosis code for outbound interfaces.

Note: for the HUB inbound interfaces, if the DEFAULT-DIAG- FORMAT entry is not defined and if the inbound HL7 message doesn't identify the ICD format in DG1-03.3, then it will be up to the interface update modules to process the individual diagnosis code associated with the inbound order received, based on the global ICD version flag.

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b. LAB interface update processor modules

These modules use the ICD version defined in the format field in the incoming order record to determine in what format the diagnosis code is coming in before processing and storing in the sample record. If the value defined in this format field is blank, then these modules will use the global ICD version flag to process the incoming diagnosis code.

c. LAB interface outbound preparation processor modules

These modules pass the ICD-9 value in the format field in the outbound record associated with any sample that is generated prior to the official cutover to ICD-10, otherwise these modules pass the ICD-10 value in the format field in the outbound record, for the HUB outbound module to process the record to send the appropriate value in the DG1-03.3 and/or FT1-19.3 HL7 field.

Note: The only way to accurately test the ICD-10 implementation is to enable ICD-10 support in your test environment prior to the official government deadline. Note that once this switch is set it cannot be reversed. Your environment will permanently be set to ICD-10, however you will still be able to access the previous ICD-9 rules, standing orders, dictionaries, collection records, and sample records as long as “Dual Entry” is enabled. It is possible for a facility to still prepare in advance for the ICD-10 conversion without impacting workflow in the live environment with the “Dual Entry” selections as long as CyberLAB 7.3 is installed in the test environment. The facility can setup all ICD-10 related MNV rules and Standing Orders in the test environment and Aspyra support can move those databases into the live environment prior to the deadline. In other words, ICD-10 preparations can take place in either live or test environments depending on your requirements.

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