Diagnosis Codes
&
Index Case
Introduction

This instruction manual will help the user understand below items:

- Patient Chart

Types of Diagnosis Codes

CureMD system categorizes the diagnosis codes into four types:

Primary: It is the principal diagnosis for a visit.

Secondary: All the diagnosis codes apart from the principal diagnosis are classified as secondary diagnoses.

Established: This diagnosis is used to represent any chronic disease that the patient is suffering from. It is usually considered a part of the visit.

Working: It is any diagnosis which is not established yet and the provider is working.

Adding a Diagnosis code for a Patient

All Current and Past Diagnosis records of a patient are viewable on this screen. The user can also update Diagnosis Onset, Type and Severity on the home screen of the Diagnosis component. A user can click on icon to view Clinical reference related to the ICD. The Actions icon allows to you to see any changes made to the diagnosis and allows you to track which user has made the changes.
While adding a new Diagnosis, the first step is to search for the diagnosis by typing in a keyword or by entering the ICD code. Diagnosis that match a user’s search will be displayed below the search section. Select the one that needs to be added to the patient’s chart and click **Save**.

User can alphabetically sort current 'Diagnosis', on the basis of their description, ICD-10 and ICD-9 codes. User can sort by clicking on arrow button near headings of each column. This will make it easier for user to trace the desired diagnoses.
Provider Friendly Terminology

Providers can search for a diagnosis using provider friendly terminology. The diagnosis search box now recognizes provider specific abbreviations and aliases for diseases and generates accurate billable ICD-10 codes. Application users no longer have to scroll through lengthy search results to locate the desired code. Simply type in a short keyword, a few characters of the disease name, an alias or a common name for the disease and the application will bring forth the desired code. To understand how this search works, please follow the workflow described below. The button for Provider Friendly Terminology or PFT is present next to the "Recently Used" and "Favorites" button.

To search for a diagnosis using Provider Friendly Terminology, click on the PFT button. This enables the system to search using Provider Friendly Terminology.
The system recognizes medical abbreviations and other PFT as search keywords and generates accurate ICD-10 codes accordingly. For instance, if you search for **HTN**, the dropdown menu will list **Hypertension**. Similarly, if you search for **HPB**, the Results dropdown will list **Hepatitis B Virus**.
**PFT search dropdown**

All the relevant billable ICD-10 codes are displayed in the search results.

**Billable ICD-10 codes**
You can hover your mouse over any particular description to read the full text.

**Diagnosis Full description- Tooltip**

For terms having multiple ICD-10 codes associated with them, the description for each of these codes appears in the tooltip.

**Code Full Description- Tooltip**
Third column in the Results section, labelled as Refine allows you to further drill down into the results to select a more specific/ billable ICD-10 code. The icons in Red and Green define the type of diagnosis. Depending on the diagnosis, two types of refinement options are available:

- Optional (Green)
- Mandatory (Red)

The tooltip describes the details of how the refinement option works.
Click on the desired Search Result.
Select Diagnosis

The total number of interactions are displayed if they exist.

Interactions Found

1 Interaction Found

197.3 - Complications affecting other specified body systems, not elsewhere classified: hypertension
If multiple ICD-10 codes are associated with a search term, they are displayed in a list. To help you select the most appropriate ICD-10, the attributes are displayed against each code.
Code Attributes

After selecting all the required diagnoses, click on them to fill in details such as Type, Onset, and Severity etc.
You can click on the X icon that appears upon hovering over each diagnosis, in order to remove the diagnosis.
Remove Diagnosis

Once you've selected the desired code, click on save button to add it to the list of patient's diagnoses.

Save Diagnosis
Patient Index Case

System allows a user to classify a patient as an **Index** case and record contacts. An Index case is defined as the first patient/case who holds a disease which can be heritable or communicable, to record such cases a new checkbox named **Index Case** has been created in the Diagnosis component.

![Index Case Checkbox](image)

If a patient is identified as an index case for certain diagnoses, an icon will be displayed on the list page against all those diagnoses.
After a patient is marked as an index case for a particular diagnosis, user will be able to record contacts (others who may have acquired the disease from patient) against it.
The First Name and Contact Type fields are mandatory to record an index case.

**Add Contact - Index Case**

A couple of fields will be conditional and will only appear once their pre-requisite option is selected. These fields will vary based on the option selected in Contact Type dropdown.

**Pre-requisite Option**
User will also be able to add multiple medications that the contact might take for treatment. Azithromycin 1G PO and Metronidazole 2G PO are going to be available by default. If any other medication is used for treatment, then user can click on add icon to associate it.

### Add Button

This will change the control to an open text field. Once relevant medication is added, user can click on check icon, which would add the new medication to multi-select dropdown as an option.

### Adding Medication

Once the user fills in relevant details about a contact and saves it, the system will suggest to map this contact with existing patient profiles. It will search for a match among registered users and if matches are found, they will be listed in order of relevance, from most relevant to least relevant.
Possible Match

Users will then be able to select required patient profile and link it with the contact.
Once linked, name of this contact will appear as a hyperlink.

Hyperlink

After a contact is saved, user can preview its complete details by clicking on the icon.

Preview

User can edit details of a contact by clicking on the pencil icon available against each contact on the right.

Edit Details
Following this a window will launch allowing user to edit, delete or Link/Unlink the contact.

**Editing Window**

For linked contacts, acquisition status fields will be read only and acquisition status will only be updated by via linked patient’s profile by adding that diagnosis or discarding it. Moreover, user will not be able to delete a linked contact whose acquisition status has been updated to Positive or Negative.

However, if no match is found among registered users or none of the matching profiles belongs to the contact being added, it will be recorded as an unregistered contact. In case a match is found but user does not wish to associate the contact with suggested patient profile, user could proceed by clicking on the ‘Continue without Linking’ hyperlink or by simply closing the window.
If user wishes to add this un-registered contact as a new patient in the system, they will click on the **Register Contact** icon available on the list page.

Upon confirmation an add patient window will open and fields such as First Name, Last Name, Gender and DOB will be auto-populated if data is already available for them. After mandatory fields are filled in, the user will be able to register this contact as new patient by clicking on the Save button.

Once registered successfully, the contacts name will change to a hyperlink as per the convention, indicating that the contact has been linked with the new patient profile.
Upon clicking on the name of a linked contact, user will be redirected to that patient’s health record.

In order to view this patient’s association with the index case user can click on the diagnoses node as shown in the following screen.
Here, a tab titled **Probable** will be available. Under this tab, user will be able to view all the diagnoses for which this patient was added as a contact to index cases along with other details.

If any of these probable diagnoses are established after checkup or screening, user will have the option to move them to current diagnoses list by clicking on the **Mark as Current** button.

The system will prompt user to confirm this action before moving the diagnosis to current diagnoses tab.
If confirmed, then the selected diagnosis will be moved from probable to current diagnoses.

**Current Diagnoses**

Upon doing so, acquisition status of the contact will also be updated from Unknown to Positive. Refer to the following screen where this update is automatically made in index patient’s chart:

**Positive**

But if, after investigation, it is confirmed that the contact has not acquired the disease from index case; user will be able to remove that diagnosis from patients’ probable list by clicking on the discard button.
Diagnosis Codes

Discard Button

The system will prompt user to add comments before deleting selected probable diagnosis.

Add Comment Prompt

Once a comment is added and saved, the selected diagnosis will be discarded and acquisition status for the contact will be updated from Unknown to Negative.
Diagnosis Codes

Negative

Reports Index Case

The Reports Module is also affected by the introduction of the index cases. A report is available to search index cases and review their contacts. To run the report, user will navigate to Reports Module and click on the Index Case node under Public Health Surveillance.
User will be able to filter index case reports using criteria such as Patient First Name, Patient Last Name, Patient Account Number, Location and Diagnosis.

Filter Criteria

Once required criteria is set, user can click on the Print Button, upon which details of all relevant index cases will be printed in a separate tab as shown.
The system would also maintain audit logs of all the actions performed on index contacts/cases. Entries in these logs will be triggered if a patient is marked or unmarked as an index case against a diagnosis.
Audit Logs