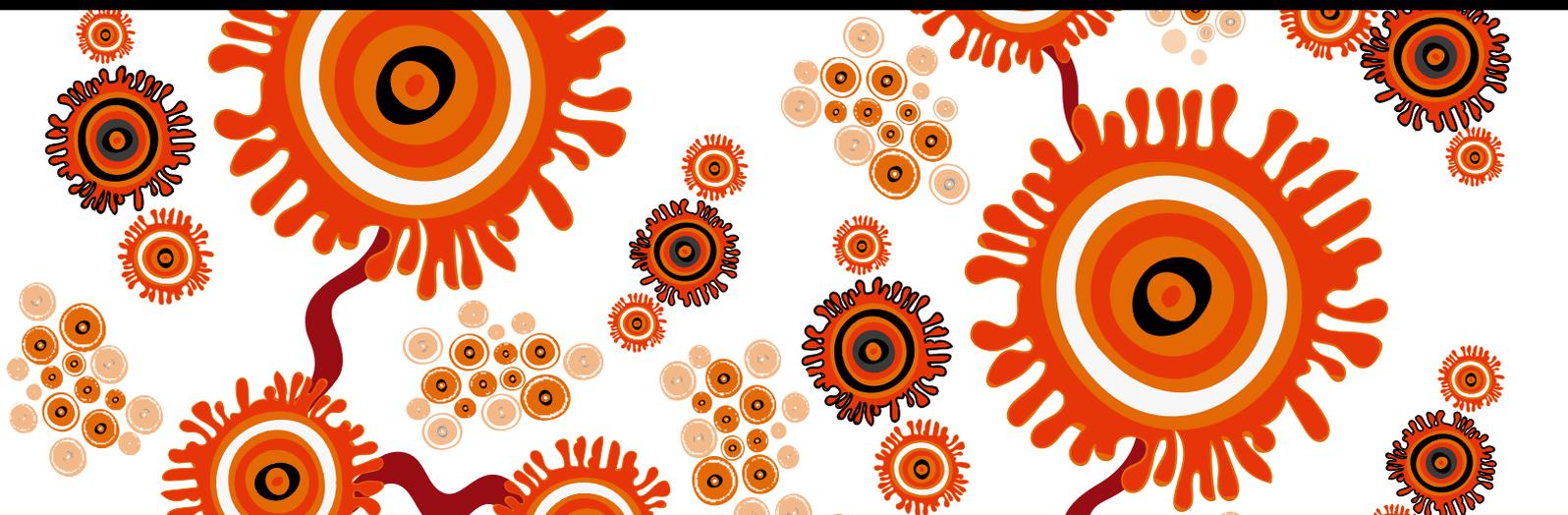


COMMUNICARE ADMINISTRATOR MANUAL

VIRAL HEPATITIS



ashm

Supporting the HIV, Viral Hepatitis
and Sexual Health Workforce



Aboriginal Health Council
of South Australia Inc.

'Our health, our choice, our way'

COMMUNICARE

Communicare acknowledgement: Communicare acknowledges the business intelligence and product development shared through respectful partnerships spanning more than 20+ years in the Aboriginal Community Controlled Health and medical services sector and looks forward to evolving Communicare as the state of the art primary health care system in the national effort to reduce health inequality and close the gap in a generation

www.communicaresystems.com.au.

This manual has been developed to enable health services using the Clinical Information System–Communicare, to make the changes necessary to be able to implement the **Communicare User Manual–Viral Hepatitis**.

ACKNOWLEDGEMENTS

Written by: Ms Beth Hummerston
Reviewed by: Mr Michael Larkin

ARTIST BIOGRAPHY

Allan Sumner

Born in 1975, Allan is a decedent of the Ngarrindjeri people who come from the lower Murray and the lakes of the Murray River along the Coorong of South Australia. He is also decedent of the Kurna people from Adelaide the plains region and the Yankunytjatjara people from central Australia. Allan is a visual and graphic artist, who has also had extensive experience working in the health sector as an Aboriginal health professional, a facilitator of cultural tours, and provider of various workshops in schools and community groups where he teaches Aboriginal arts and culture.

ABOUT THE ARTWORK

“WARRIAPPENDI” (Look Seek Find)

Warriappendi is a Kurna word meaning to “Look Seek or Find”.

Artwork description: The artwork “Warriappendi” tells the story of how blood borne viruses such as hepatitis B and C can travel through the blood, and the importance of testing so appropriate care can be provided.

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Locked Bag 5057, Darlinghurst, NSW 1300

Telephone (61) (02) 8204 0700
Facsimile (61) (02) 9212 2382
Email ashm@ashm.org.au
Website <http://www.ashm.org.au>

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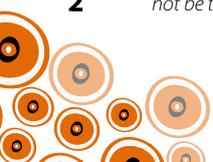
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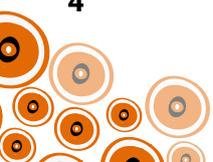


DISABLING INVESTIGATIONS

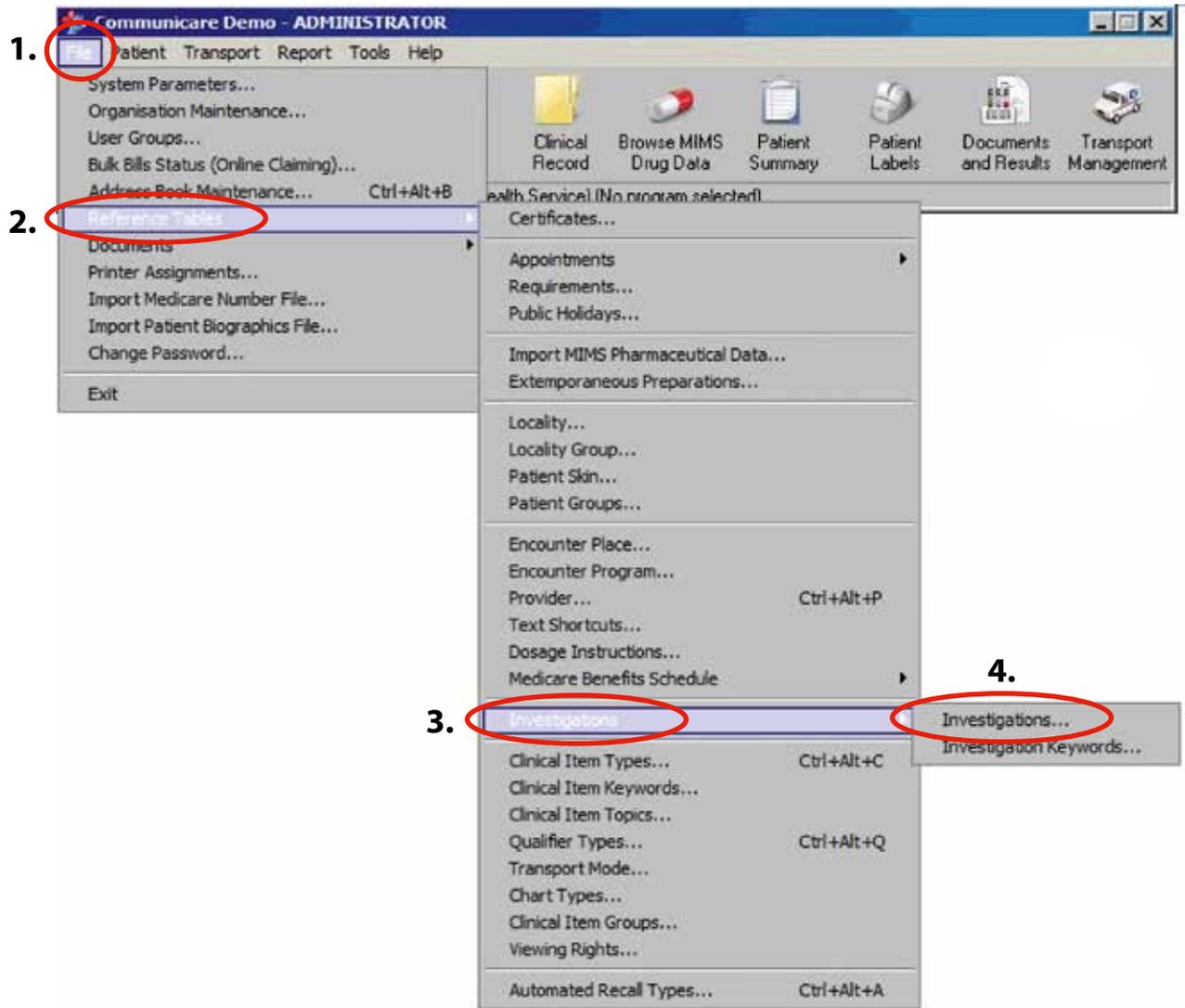
There are specific tests required relating to the screening and management of viral hepatitis. This may mean you will need to create some and disable others to ensure consistency with the investigation types requested by providers. Those investigations available centrally in Communicare you need to disable are;

- Hepatitis B, immune status post exposure
- Hepatitis B, immune status post vaccination
- Hepatitis A and B, immune status
- Hepatitis A B or C, acute
- Hepatitis A, acute
- Hepatitis A, immune status
- Hepatitis B & C immune status
- Hepatitis B serology
- Hepatitis B, acute or resolving
- Hepatitis B, chronic or carriage of Hep. B antigen
- Hepatitis B, chronic or carriage of Hep. B antigen–supplementary
- Hepatitis B, resolving
- Hepatitis C antibody supplementary
- Hepatitis C serology
- Hepatitis C, detection
- Hepatitis D, acute or chronic
- Hepatitis, chronic viral
- Hepatitis, serology in pregnancy

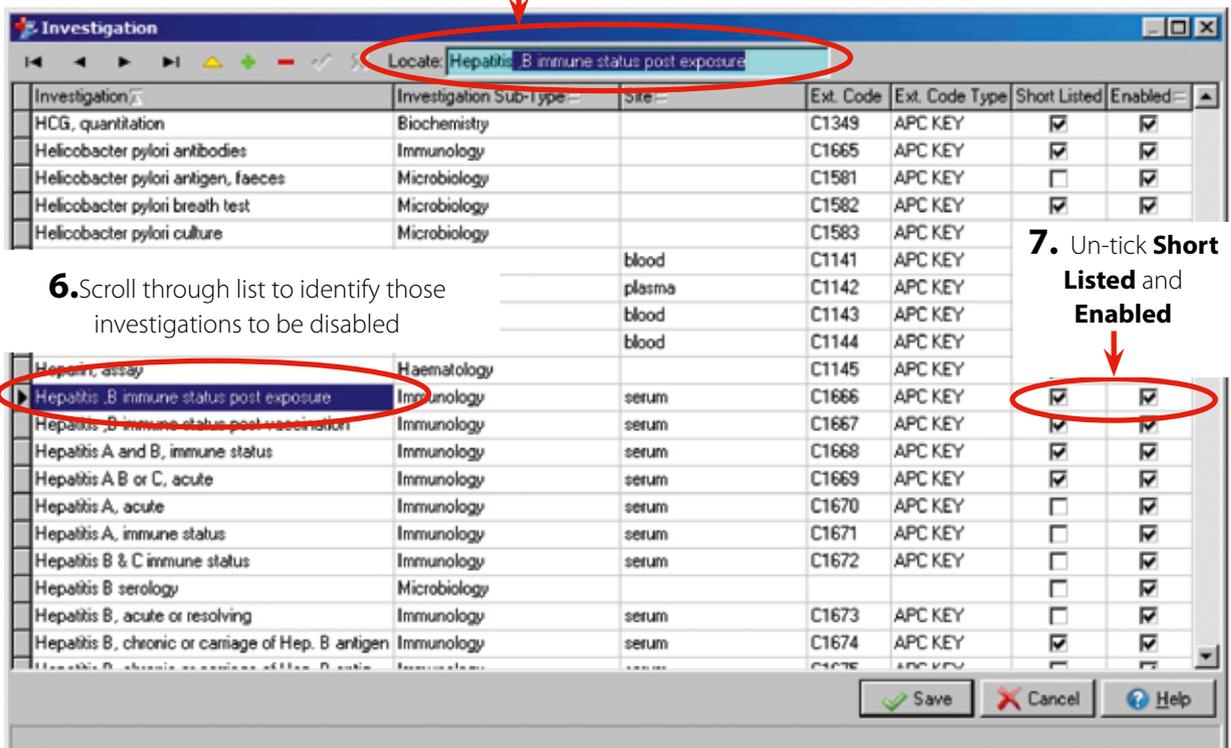
You may need to consider disabling additional investigations that have been created locally.



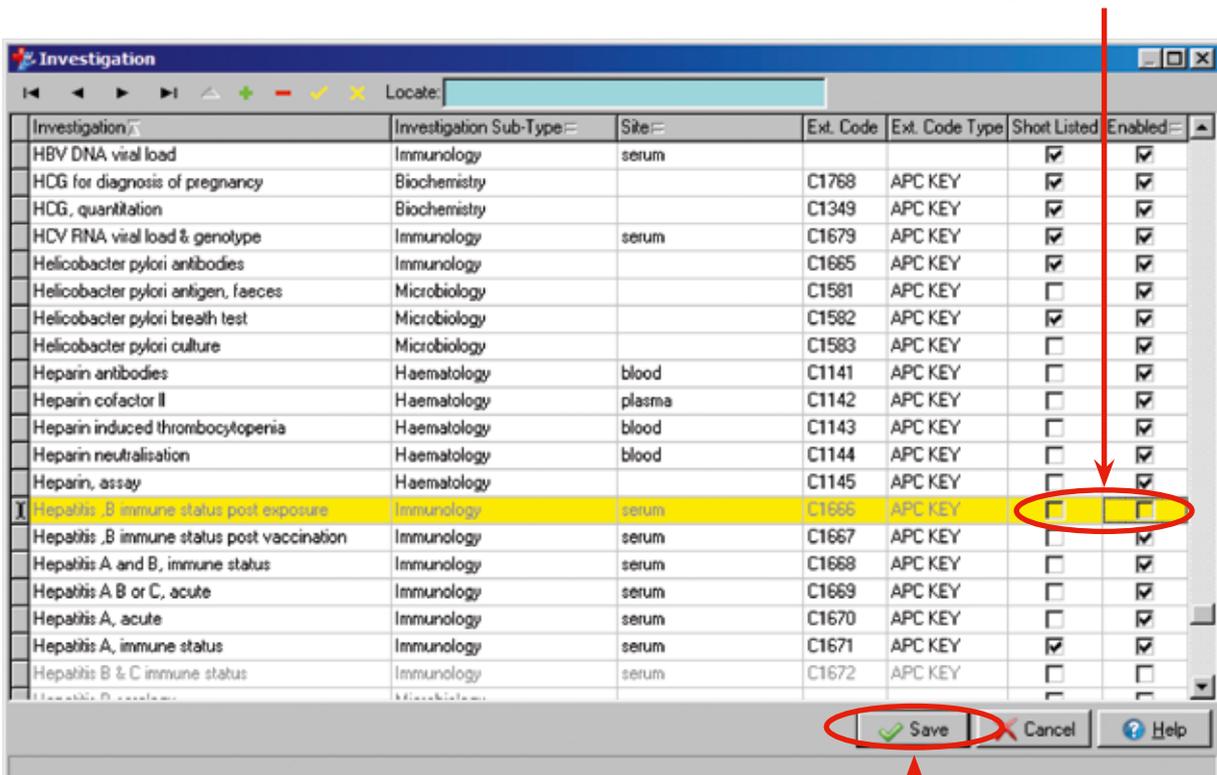
Follow steps 1–9 for each investigation to be disabled;



5. Start typing the name of the investigation



8. Continue until all listed Investigations are disabled

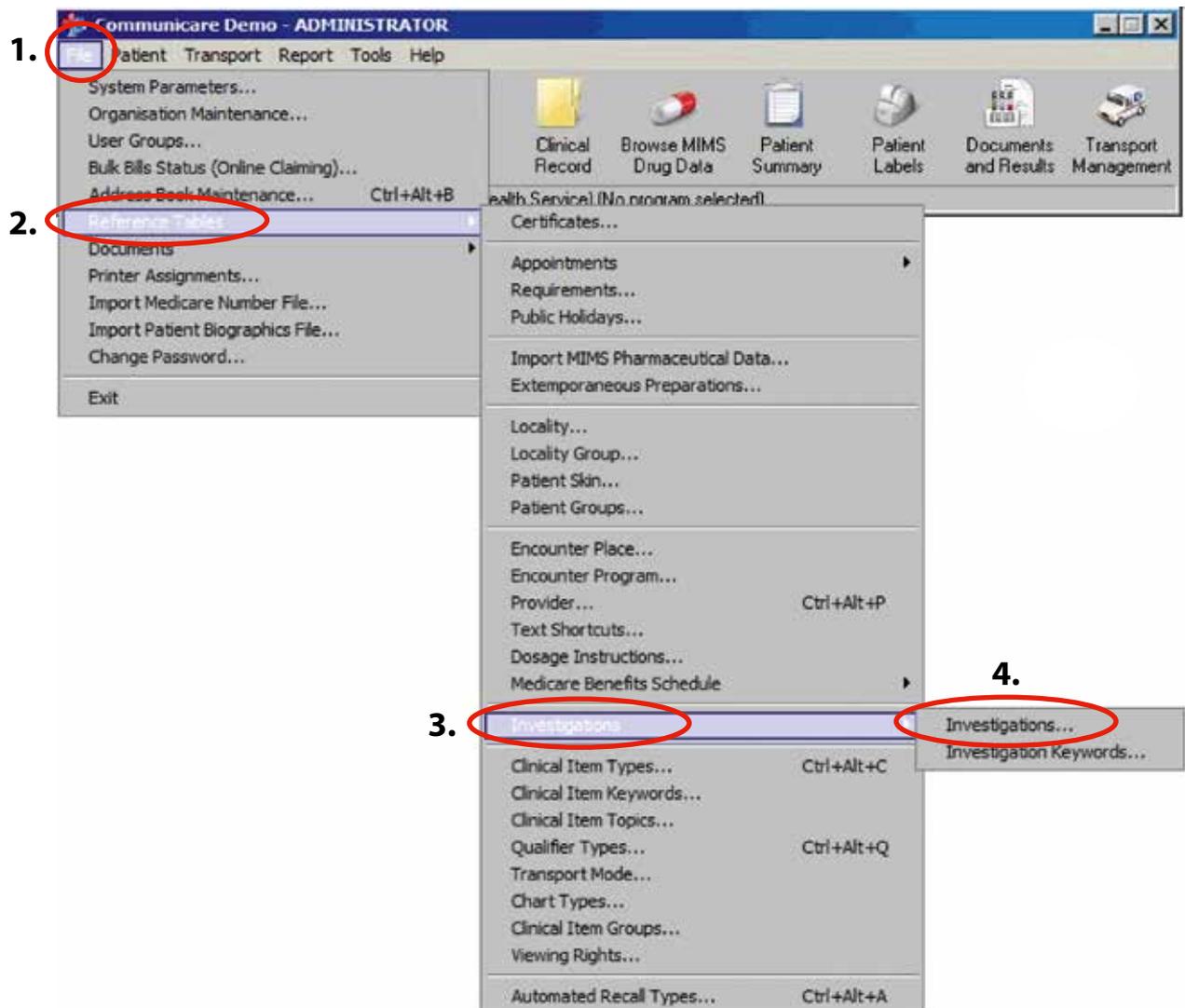


9. Click **Save** when all those Investigations listed have been disabled

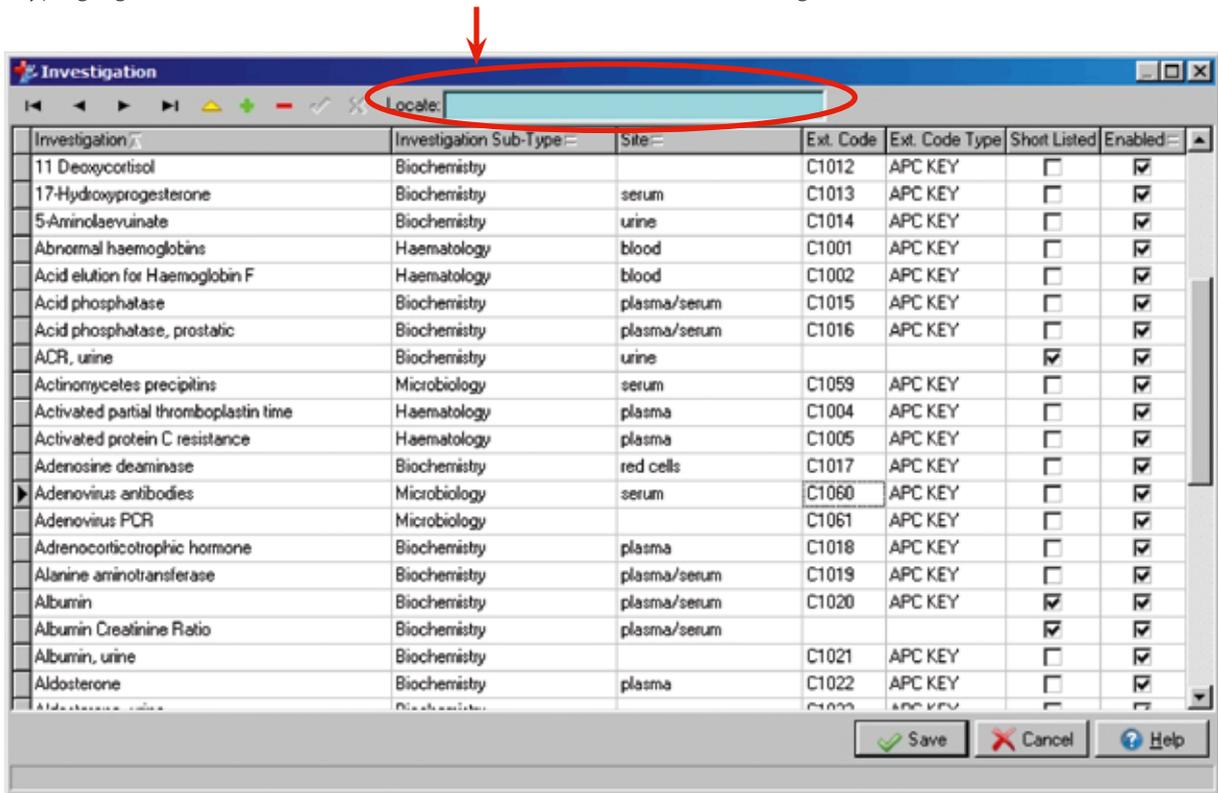
CREATION OF INVESTIGATIONS

To ensure laboratories perform the specific tests required, there are investigations requiring creation. You will need to check whether the specific tests below have already been created at the local level; To do this, follow Steps 1–5 for each of the investigations listed below;

- Anti-HAV
- HAV IgG
- Anti-HBc
- HBV DNA viral load
- Anti-HBe
- HBeAg
- HBsAg
- Anti-HBs
- Anti-HCV
- HCV RNA viral load & genotype
- Anti-HDV
- Liver function tests including AST
(**Investigation Sub-Type** {Step 8} for this investigation is Biochemistry)

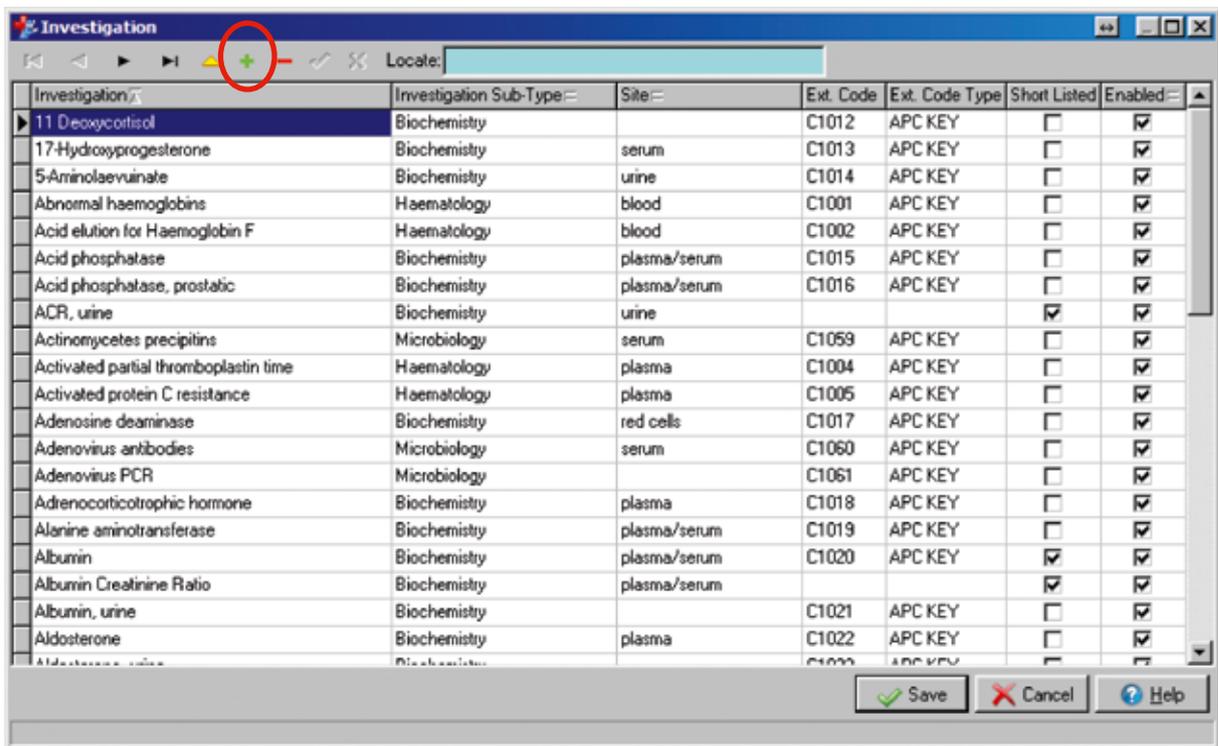


5. Start typing e.g. "Anti-HAV" in the **Locate** search box. Check each of the investigations on the list.



If investigations listed on p.7 have not been locally created, you will need to create them. Follow Steps 1–4 on p.7 (skip Step 5 above) and continue with Steps 6-12 as below;

6. Click **+** to add an investigation



7. Enter name of **Investigation** e.g. **Anti-HAV**

8. Choose **Immunology** from the **Investigation Sub-Type** drop box

| Investigation | Investigation Sub-Type | Site | Ext. Code | Ext. Code type | Short Listed | Enabled |
|---------------------------------------|------------------------|--------------|-----------|----------------|-------------------------------------|-------------------------------------|
| * Anti-HAV | Immunology | serum | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Deoxycortisol | Biochemistry | | C1012 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17-Hydroxyprogesterone | Biochemistry | serum | C1013 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5-Aminolaevuinate | Biochemistry | urine | C1014 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Abnormal haemoglobins | Haematology | blood | C1001 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Acid elution for Haemoglobin F | Haematology | blood | C1002 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Acid phosphatase | Biochemistry | | C1015 | APC KEY | | |
| Acid phosphatase, prostatic | Biochemistry | | C1016 | APC KEY | | |
| ACR, urine | Biochemistry | | | | | |
| Actinomyces precipitins | Microbiology | serum | C1059 | APC KEY | | |
| Activated partial thromboplastin time | Haematology | plasma | C1004 | APC KEY | | |
| Activated protein C resistance | Haematology | plasma | C1005 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adenosine deaminase | Biochemistry | red cells | C1017 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adenovirus antibodies | Microbiology | serum | C1060 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adenovirus PCR | Microbiology | | C1061 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Adrenocorticotrophic hormone | Biochemistry | plasma | C1018 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Alanine aminotransferase | Biochemistry | plasma/serum | C1019 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Albumin | Biochemistry | plasma/serum | C1020 | APC KEY | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Albumin Creatinine Ratio | Biochemistry | plasma/serum | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Albumin, urine | Biochemistry | | C1021 | APC KEY | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

9. Type "serum" in the **Site**

10. Make sure '**Short Listed**' and '**Enabled**' boxes are ticked

11. Click to add another Investigation and repeat Steps 6-10

12. Click **Save** when all Investigations have been added

CREATING AN INVESTIGATION KEYWORD

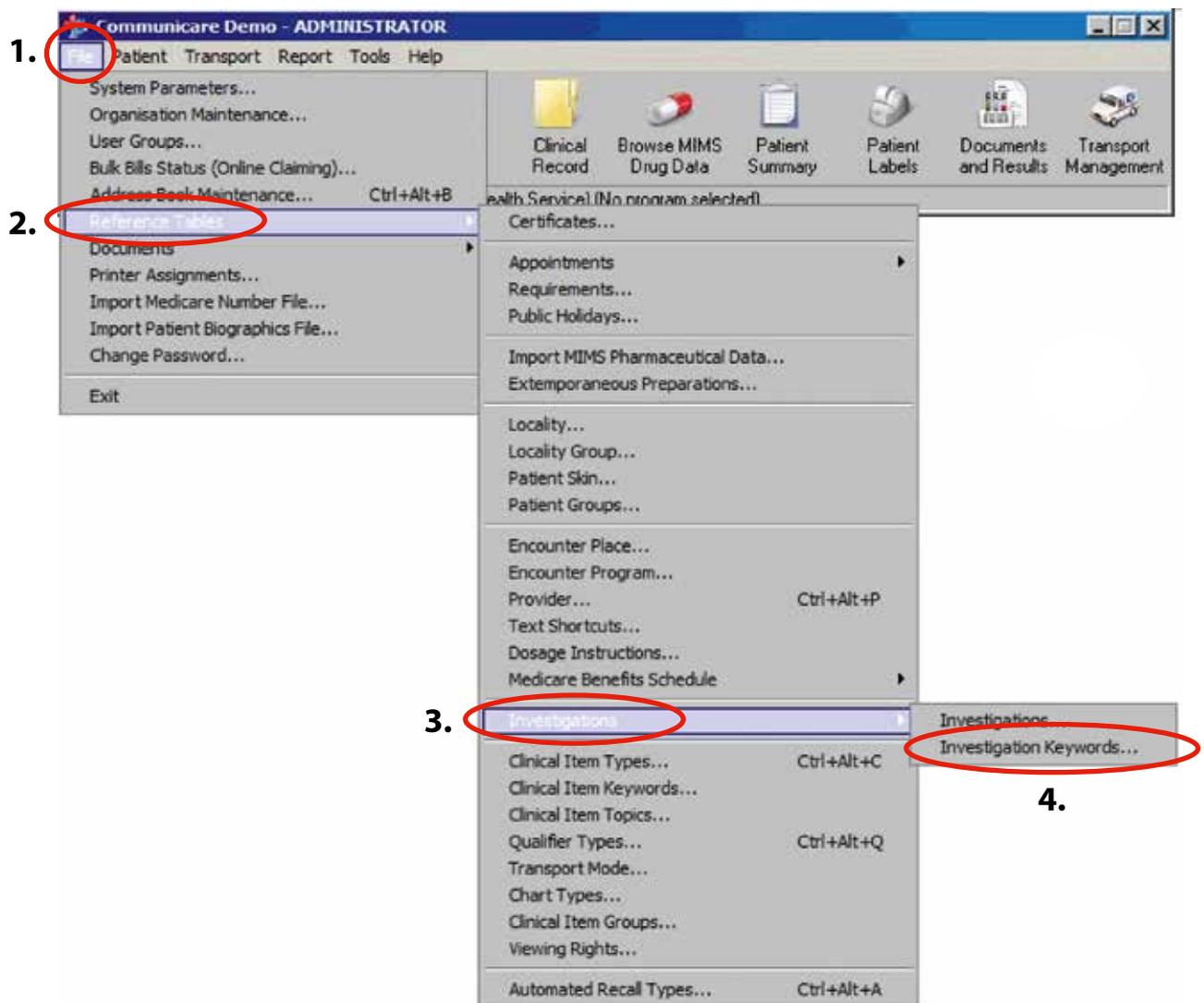
To enable the automated selection of investigations from within a clinical item (to be covered later in this manual) keywords need to be added.

The following keywords require creation;

- Hepatitisscreen
- HepatitisBclinicalreview
- HepatitisCfurthertests

You will need to check whether these investigation keywords have already been created at the local level.

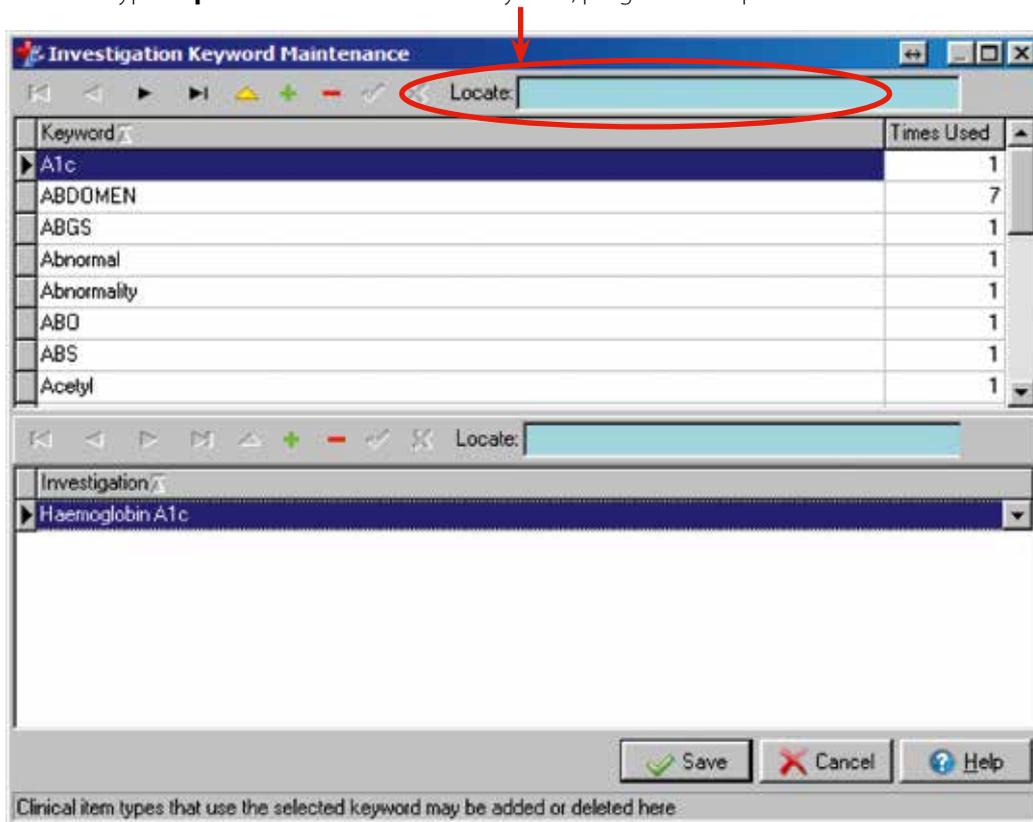
To do this, follow Steps 1–5 for each of the keywords listed;



Using the example of the Investigation Keyword "Hepatitisscreen"

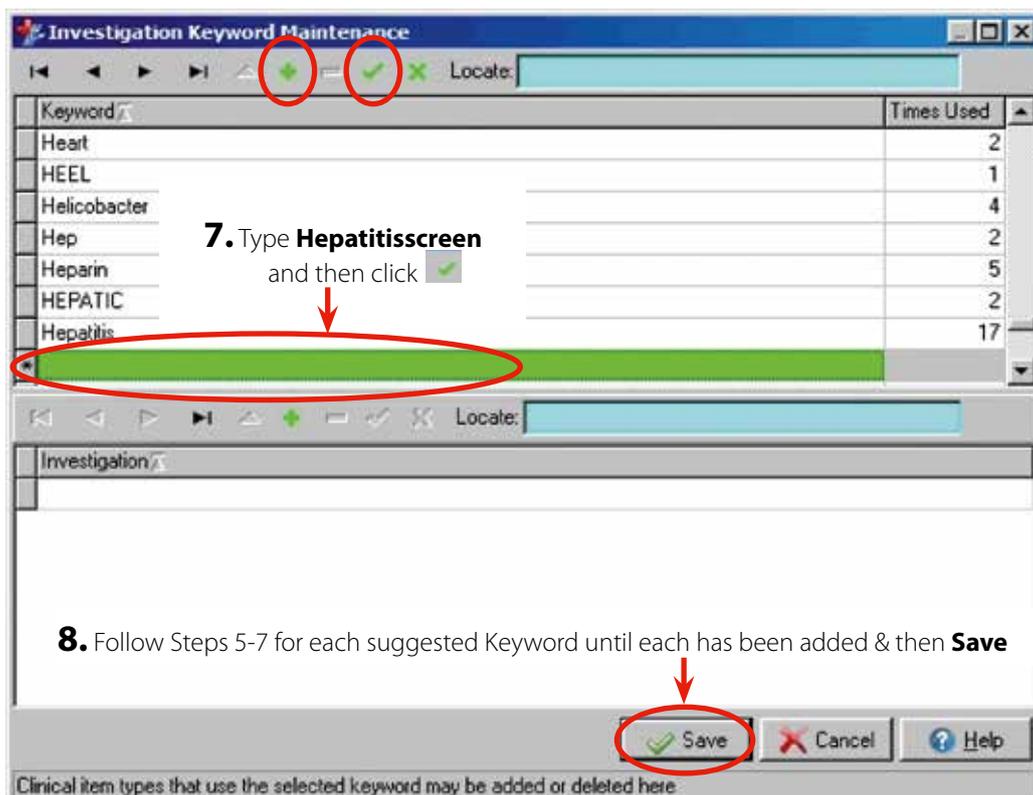
Check first to see if **Hepatitisscreen** is already a keyword;

5. Go to **Locate** and type **hepatitisscreen**. If it is not a keyword, progress to Step 6.



If the keyword has already been created, choose an alternative and then progress to Step 6.

6. Click **+**

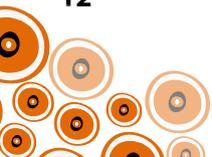


ADDITION OF INVESTIGATIONS TO INVESTIGATION KEYWORDS

Once the Investigation Keywords have been created, investigations need to be attached to each of the keywords. If the keywords below have already been used you will need to use alternatives. Disabling or changing the investigations attached to keywords is discouraged as clinicians may be familiar with their use.

Investigations to add to Keywords;

| Keyword | Investigations to Add |
|--------------------------|---|
| Hepatitisscreen | Anti-HAV Anti-HBs HBsAg Anti-HBc Anti-HCV |
| HepatitisBclinicalreview | Alpha fetoprotein, serum Anti-HBe Anti-HDV Full Blood Examination HBV DNA viral load HBeAg International normalised ratio Liver function tests including AST |
| HepatitisCfurthertests | HCV RNA viral load & genotype HIV Antibodies 1/2 Liver function tests including AST |



Continuing with the example of the Investigation Keyword **Hepatitisscreen**, follow through Steps 1-4 on p. 10 and continue with Steps 5-8 as below;

5. Type the keyword in **Locate** and then click on it to highlight

6. To add the investigations, click +

| Keyword | Times Used |
|--------------------------|------------|
| Heparin | 5 |
| HEPATIC | 2 |
| Hepatitis | 17 |
| HepatitisBclinicalreview | 8 |
| HepatitisClintests | 3 |
| Hepatitisscreen | 5 |
| HepB | 1 |
| Hereditary | 1 |

Investigation

- Anti-HBs
- Anti-HBc
- Anti-HCV
- HBsAg

Save Cancel Help

Clinical item types that use the selected keyword may be added or deleted here

7. Click and start typing to locate each investigation required for hepatitis screening. Select e.g. Anti-HAV (scroll down to search list). Click + to add the next investigation

8. Click Save

The complete Investigations list for the keyword of **hepatitisscreen**

| Keyword | Times Used |
|------------------------|------------|
| Hepatitisscreen | 5 |
| HepB | 1 |
| Hereditary | 1 |
| Herpes | 3 |
| High | 1 |
| HIP | 2 |
| Histamine | 1 |
| Histochemistry | 1 |

Investigation

- Anti-HAV**
- Anti-HBc
- Anti-HBs
- Anti-HCV
- HBsAg

Save Cancel Help

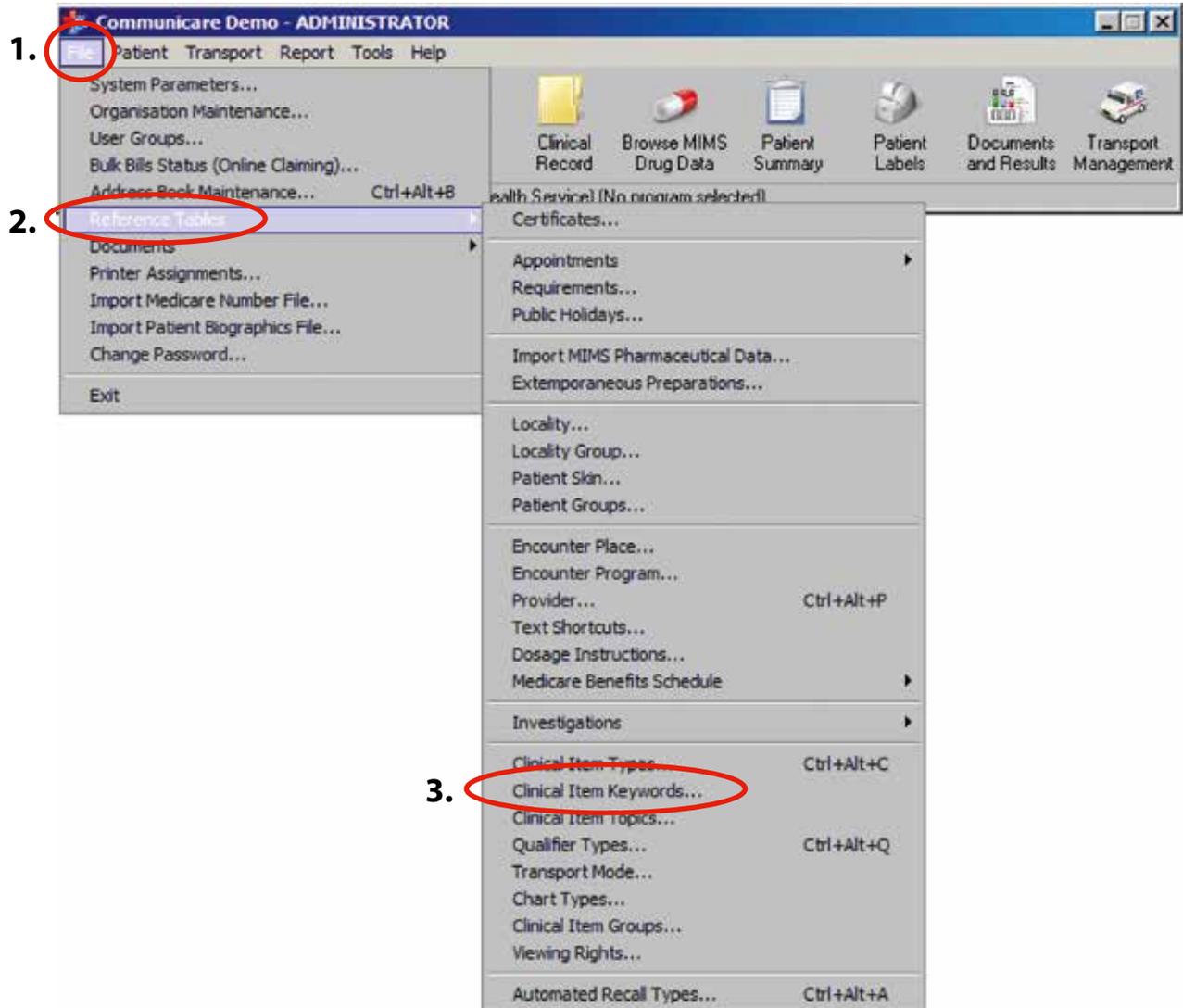
List of all keywords

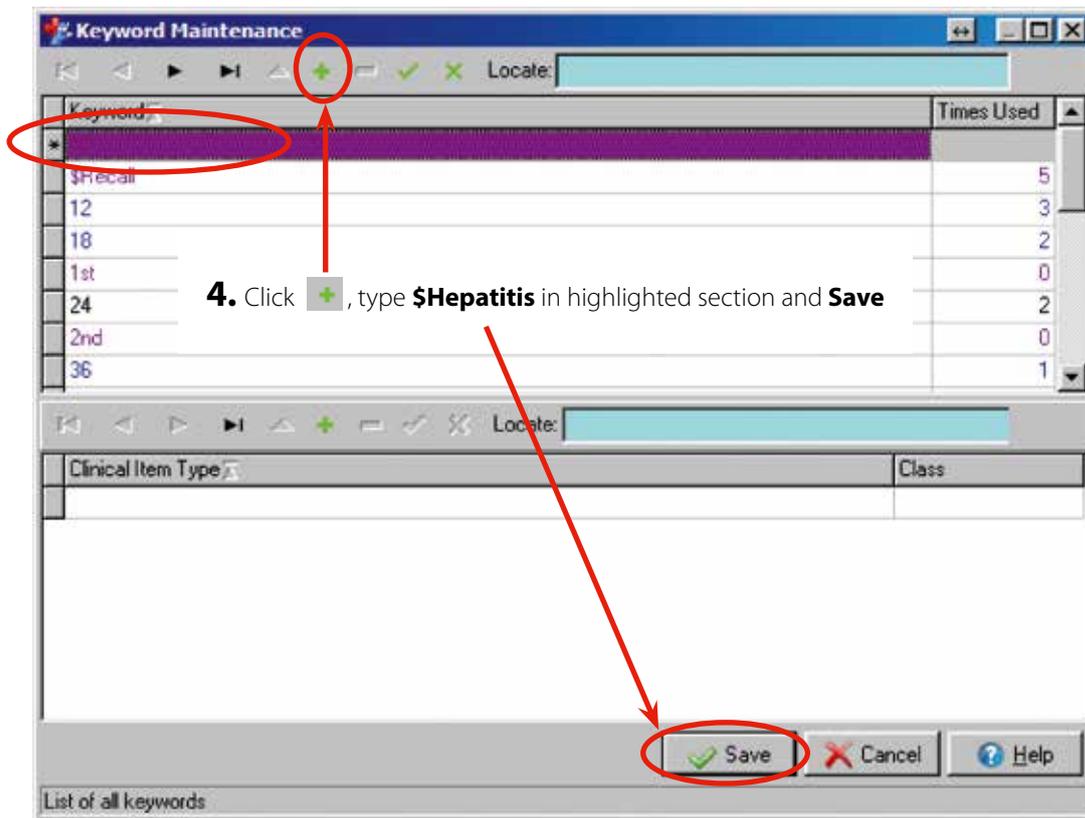


CREATION OF 'HEPATITIS' QUICK BUTTON

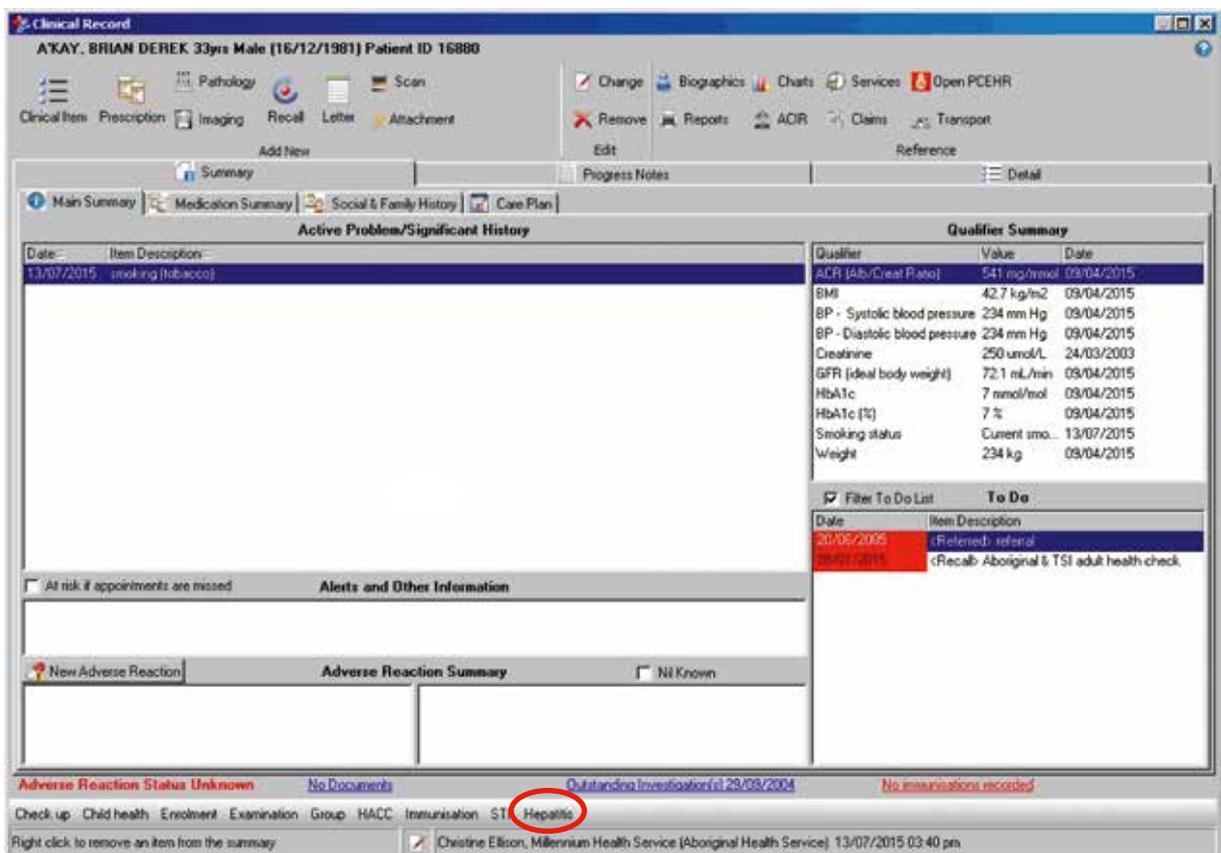
To make it easier for clinicians to locate the hepatitis clinical items suggested for use (instructions on how to create these to be addressed further along in this manual) create a 'Hepatitis' Quick Button.

Follow through Steps 1-4;





The 'Quick Button' will be accessible from within the Clinical Record when you next log into Communicare;



ADDING CLINICAL ITEMS TO 'HEPATITIS' QUICK BUTTON

The following clinical items are already available on Communicare (i.e. they don't require you to create them) and need to be accessible from the **Hepatitis** 'Quick Button';

- Contact tracing;F
- Contact tracing;M
- Hepatitis D
- Hepatitis E
- Hepatitis A
- Referral;infection specialist

(For the clinical items you will create/modify, they will be added to the quick button later during their creation/modification)

Follow on from Steps 1-3 on p. 14 with Steps 4-7 as below;

The screenshot shows the 'Keyword Maintenance' window. At the top, there is a 'Locate:' search field. Below it is a table with columns 'Keyword' and 'Times Used'. The row '\$Hepatitis' is highlighted in purple. Below this is another table with columns 'Clinical Item Type' and 'Class'. A '+' button is circled in red in the toolbar above this table. At the bottom, there are 'Save', 'Cancel', and 'Help' buttons.

| Keyword | Times Used |
|-------------|------------|
| \$Hepatitis | 0 |
| \$Recall | 5 |
| 12 | 3 |
| 18 | 2 |
| 1st | 0 |
| 24 | 2 |
| 2nd | 0 |
| 36 | 1 |

| Clinical Item Type | Class |
|--------------------|-------|
|--------------------|-------|

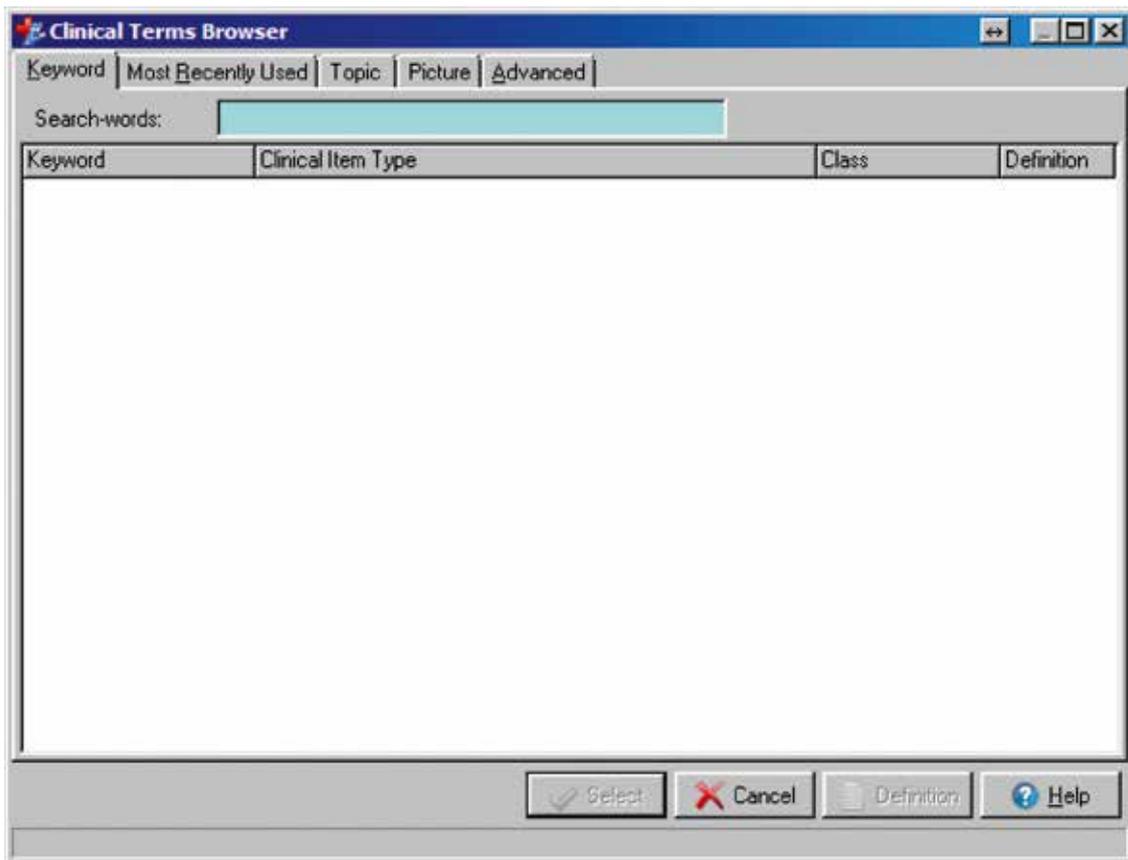
4. Locate the '\$Hepatitis' **Keyword** and click to highlight

5. Click on

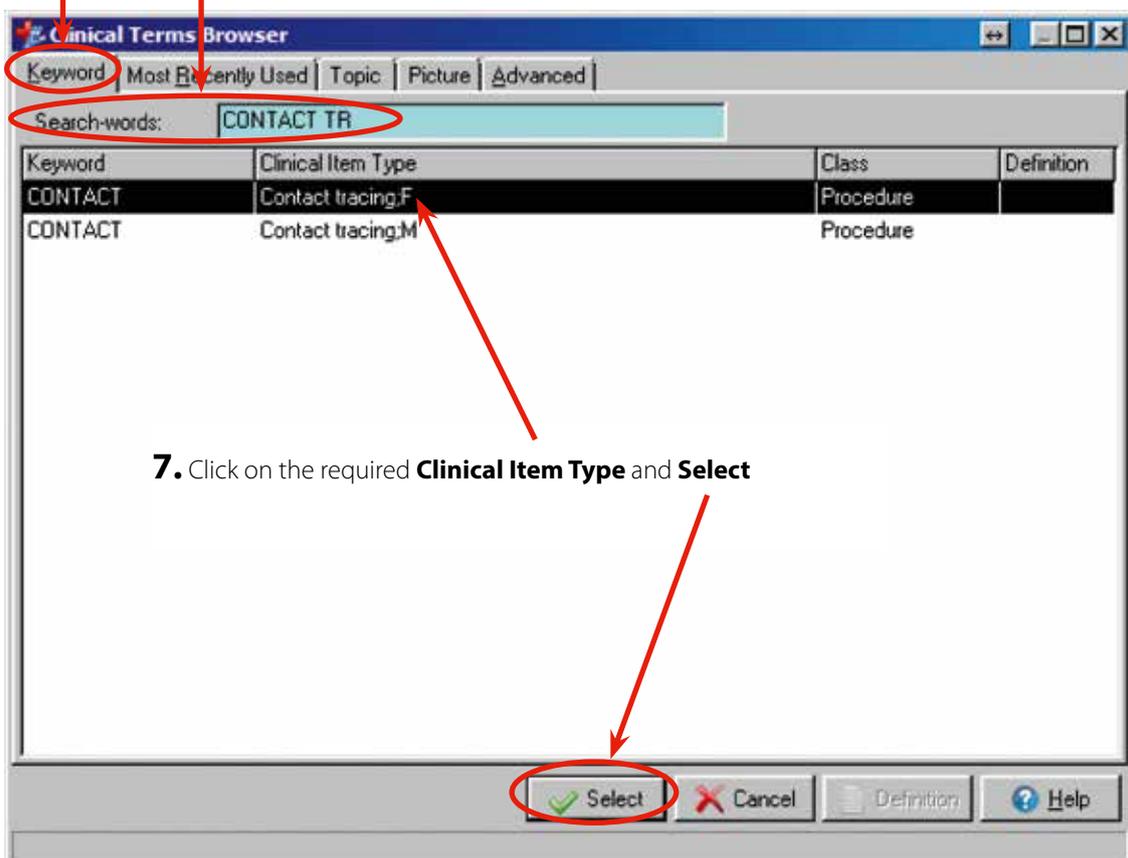
Save Cancel Help

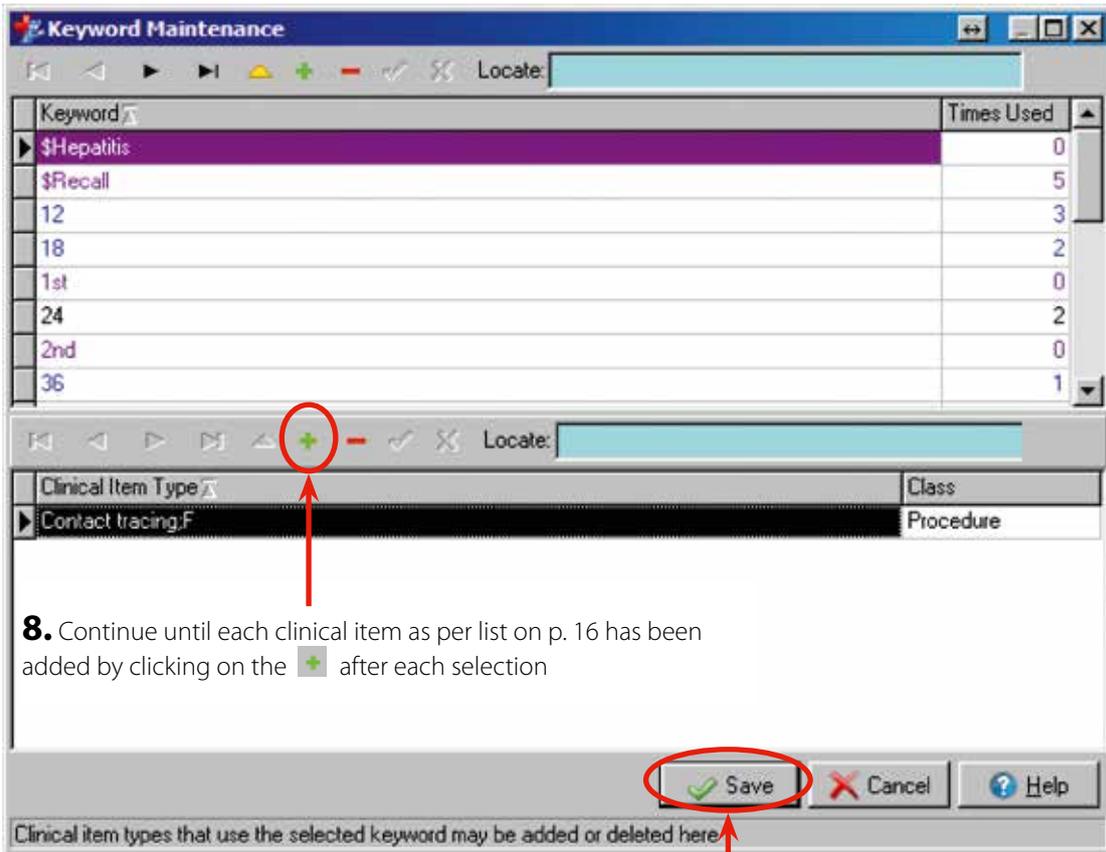
Clinical item types that use the selected keyword may be added or deleted here.

You will be taken to the **Clinical Terms Browser** to select the clinical items you need to make available from the **Hepatitis** quick button.



6. Search by **Keyword**. Using the example Contact tracing;F, begin typing this in **Search-words**;





8. Continue until each clinical item as per list on p. 16 has been added by clicking on the + after each selection

9. Click **Save** when all clinical items on list have been added

CREATION OF QUALIFIERS

The Qualifiers below require creation prior to the creation of clinical items:

| Qualifier Description | Value Type | Definition of: | Dropdown List Values | Units | Min Value | Max Value | Keyword | Additional Text |
|--------------------------------------|---------------|----------------|---|-------|-----------|-----------|---------|-----------------|
| Advice/education;alcohol consumption | Dropdown list | --- | Done Not done Not required | --- | --- | --- | --- | --- |
| Advice/education;smoking cessation | Dropdown list | --- | Done Not done Not required | --- | --- | --- | --- | --- |
| Advice/education;cannabis use | Dropdown list | --- | Done Not done Not required | --- | --- | --- | --- | --- |
| Advice/education;IV drug use | Dropdown list | --- | Done Not done Not required | --- | --- | --- | --- | --- |
| Current alcohol consumption | Dropdown list | --- | < 7 standard drinks/wk with 3 alcohol free days/wk > 7 standard drinks/wk None | --- | --- | --- | --- | --- |
| Classification | Dropdown list | --- | Infection needing surveillance Infection needing specialist management | --- | --- | --- | --- | --- |
| Fibrosan Result | Dropdown list | --- | Abnormal Normal Indetermined | --- | --- | --- | --- | --- |
| Phase of infection | Dropdown list | --- | Immune clearance Immune control Immune escape Immune tolerance | --- | --- | --- | --- | --- |
| Liver specialist referral | Dropdown list | --- | Referred, awaiting appointment Referred, under ongoing care Declined referral Not referred | --- | --- | --- | --- | --- |
| Hepatitis A immune | Dropdown list | --- | Exposure Immunisation | --- | --- | --- | --- | --- |
| Hepatitis B immune | Dropdown list | --- | Exposure Immunisation | --- | --- | --- | --- | --- |

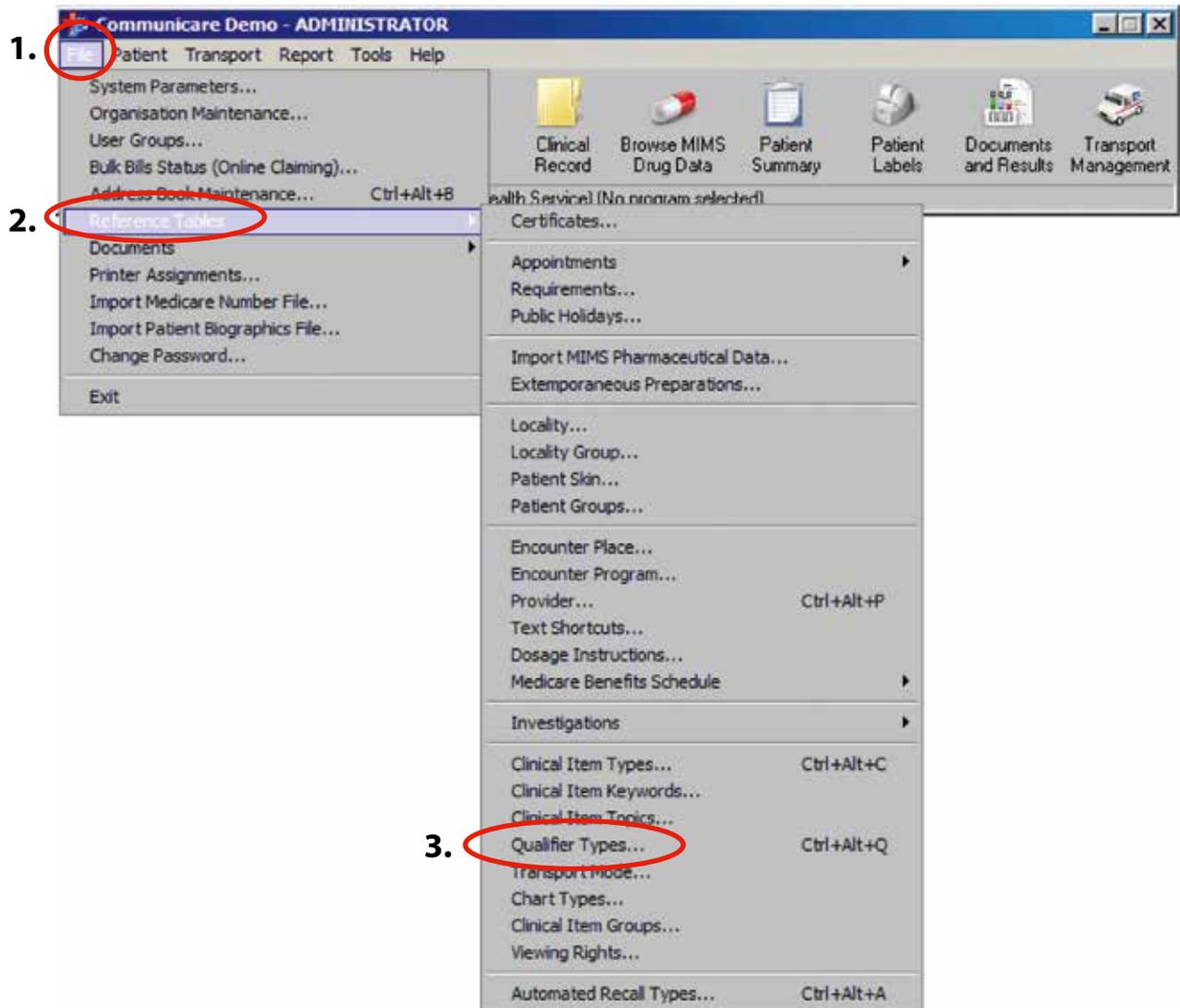
| Qualifier Description | Value Type | Definition of: | Dropdown List Values | Units | Min Value | Max Value | Keyword | Additional Text |
|---|-----------------------|---|----------------------|-------|-----------|-----------|--------------------------|-----------------|
| Encephalopathy | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Palmar erythema | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Ascites | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Oedema legs | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Cannabis use | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Contacts identified | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| Provision of infection control advice | Yes/No | --- | --- | --- | --- | --- | --- | --- |
| - Hepatitis B surface Ag & Ab levels | Yes/No | Has follow up of these contacts been initiated? | --- | --- | --- | --- | --- | --- |
| Contact Tracing (this qualifier may be available already) | Title | --- | --- | --- | --- | --- | --- | --- |
| Physical Examination | Title | --- | --- | --- | --- | --- | --- | --- |
| Previous Investigation Results | Title | --- | --- | --- | --- | --- | --- | --- |
| Summary | Title | --- | --- | --- | --- | --- | --- | --- |
| Hepatitis B—clinical review tests | Investigation Request | --- | --- | --- | --- | --- | HepatitisBclinicalreview | --- |
| Hepatitis screen –investigation request | Investigation Request | --- | --- | --- | --- | --- | HepatitisScreen | --- |
| Hepatitis C—further tests | Investigation Request | These tests required following Anti-HCV positive result | --- | --- | --- | --- | HepatitisCfurthertests | --- |
| < 11 | Numeric | AFP (Alpha fetoprotein) | --- | kIU/L | 0 | 11 | --- | --- |
| Date of last abdominal ultrasound | Date | --- | --- | --- | --- | --- | --- | --- |
| Date of last fibroscan | Date | --- | --- | --- | --- | --- | --- | --- |
| Abdominal ultrasound result | Free text | --- | --- | --- | --- | --- | --- | --- |
| Further health advice provided | Memo | --- | --- | --- | --- | --- | --- | --- |

The creation of qualifiers with a **Value Type** of; **Date, Free text, Memo, Title** and **Yes/No** simply require this to be selected from the **Value Type** dropdown list. Follow Step 1–8 on p. 22–23.

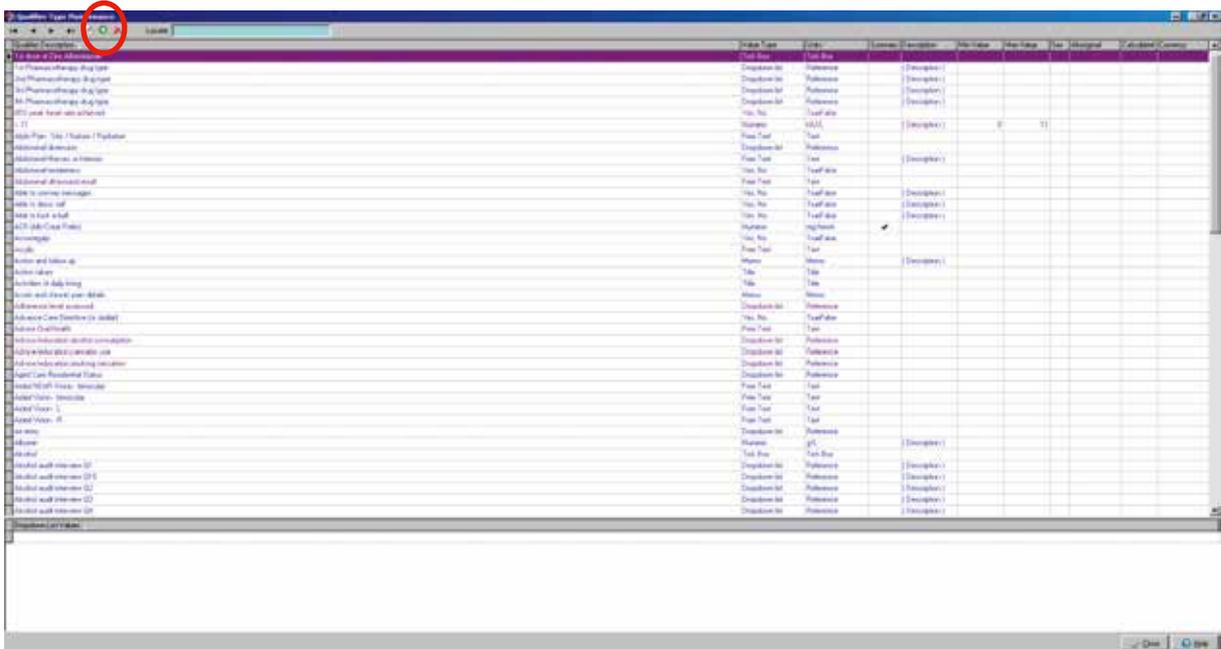
Further details to create qualifiers with a **Value Type** of; **Dropdown List, Dropdown List with Additional Text, Numeric** and **Investigation Request**, see p. 19–27.

CREATION OF A QUALIFIER WITH A DROPDOWN LIST

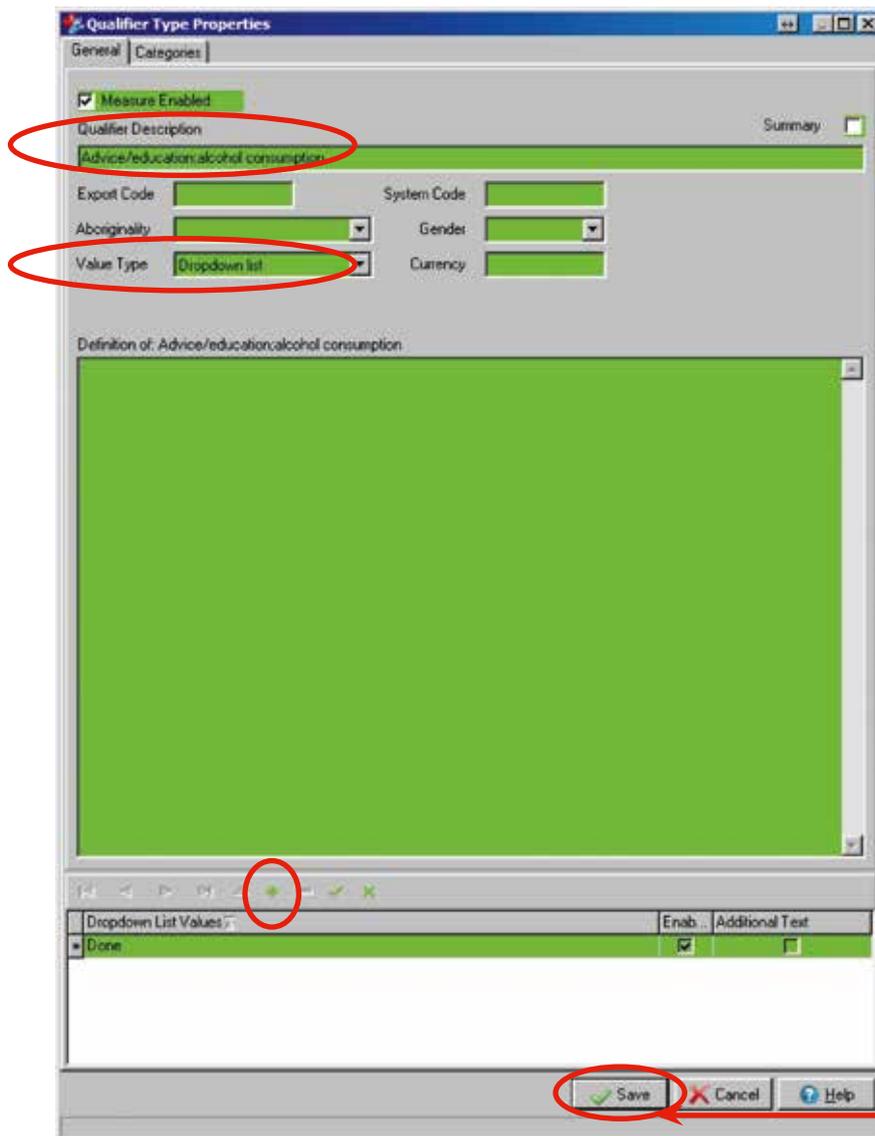
Using the example of the qualifier **Advice/education;alcohol consumption**, follow Steps 1–8;



4. Click 



The **Qualifier Type Properties** window will open;



5. Enter name of qualifier in **Qualifier Description**

6. Choose the **Value Type** of **Dropdown list**

7. Click  to add the **Dropdown List Values** after each value until all values have been entered as per table, p. 19.

8. Click **Save**



CREATION OF A QUALIFIER WITH A DROPDOWN LIST WITH ADDITIONAL TEXT

Using the example of the qualifier '**Anti-HBs / date of test**' below, follow Steps 1-6 of "Creation of a Qualifier with a Dropdown list" on p. 22-23 and then continue with Steps 7-8 on this page.

Qualifier Type Properties

General | Categories

Measure Enabled

Qualifier Description: Anti-HBs / date of test

Export Code: [] System Code: []

Aboriginality: [] Gender: []

Value Type: Dropdown list Currency: []

Definition of: Anti-HBs / date of test

| Dropdown List Values | Enab | Additional Text |
|----------------------|-------------------------------------|-------------------------------------|
| Detected | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Buttons: Save, Cancel, Help

7. Tick the **Additional Text** box of each **Dropdown List Values**

8. Click **+** following the entry of each **Dropdown List Values** until all values have been entered and then '**Save**'. Follow with Steps 9 &/or 10 on p. 24



CREATION OF A QUALIFIER WITH AN INVESTIGATION REQUEST

Using the example of the qualifier **Hepatitis screen–investigation request** below, follow Steps 1-5 of “Creation of a Qualifier with a Dropdown list” on p. 22–23 and then continue with Steps 6–8 on this page.

Qualifier Type Properties

General | Categories

Measure Enabled

Qualifier Description: Hepatitis screen - investigation request

Summary:

Export Code: [] System Code: []

Aboriginality: [] Gender: []

Value Type: Investigation Request

Currency: []

Keyword: Hepatitis screen

Definition of: Hepatitis screen - investigation request

[Save] [Cancel] [Help]

6. Enter **Value Type** of 'Investigation Request'

7. Add the **'Keyword'**

8. Click **Save**. Follow with Steps 9 &/or 10 on p. 24

CREATION OF A NUMERIC QUALIFIER

Using the example of the qualifier <11 below, follow Steps 1-5 of "Creation of a Qualifier with a Dropdown list" on p. 22-23 and then continue with Steps 6-8 on this page.

The screenshot shows the 'Qualifier Type Properties' dialog box with the following settings:

- Measure Enabled:**
- Qualifier Description:** < 11
- Value Type:** Numeric
- Units:** KIU/L
- Min Value:** 0
- Max Value:** 11
- Definition of: < 11:** AFP (Alpha fetoprotein)
- Buttons:** Save, Cancel, Help

6. Enter **Value Type** of 'Numeric'

7. Add the **Units, Min Value & Max Value**

8. Add the **Definition** and **Save**, then follow with Steps 9 &/or 10 on p. 24



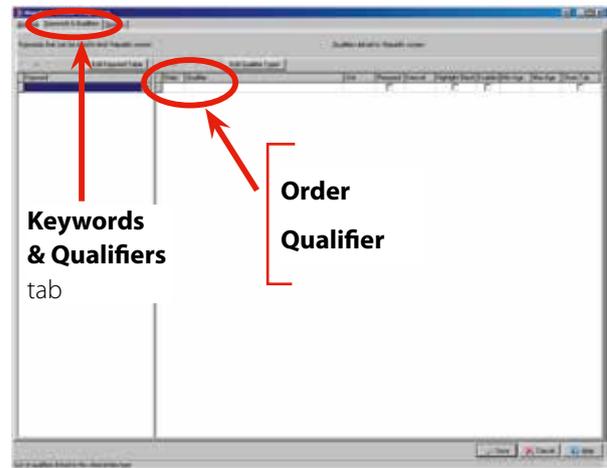
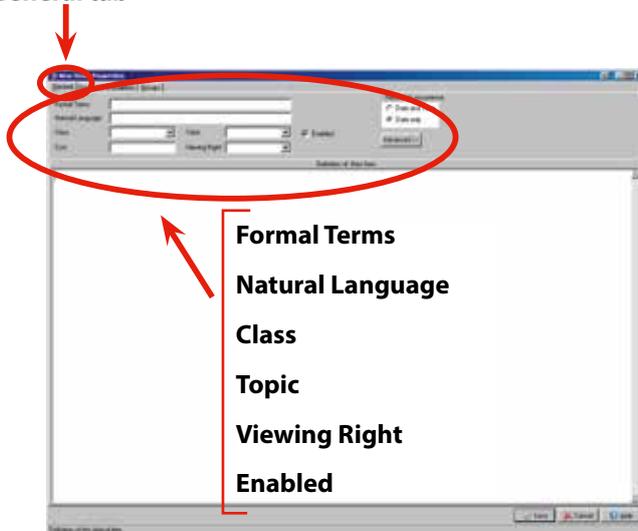
CREATION/MODIFICATION OF CLINICAL ITEMS (WITH QUALIFIERS)

The following clinical items with qualifiers need to be created or modified;

- Hepatitis Screen; Investigation Request
- Hepatitis B (modification *)
- Hepatitis A immune
- Hepatitis B immune
- Hepatitis B; clinical review tests
- Hepatitis C;further tests
- Review;chronic Hepatitis B
- Hepatitis C (modification *)
- Review;chronic hepatitis C

For instructions re clinical item creation see p. 34. The **New Item Properties** (details of each clinical item) are set out in the table on p. 29–33. The screenshot below identifies where in Communicare the headings referred to in the **New Item Properties** table are located.

General tab



CLINICAL ITEM NEW ITEM PROPERTIES;

1. Hepatitis Screen; Investigation Request

| GENERAL | | | | | |
|---|---|--|----------------|---------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis Screen; Investigation Request | Hepatitis Screen; Investigation Request | Procedure | Investigations | Common | x <input checked="" type="checkbox"/> |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HBV HCV HEPB HEPATITIS LIVER | 10 | Hepatitis Screen–Investigation Request | | | |

2. Hepatitis B

| GENERAL | | | | | |
|--|------------------|----------------|-----------|------------------------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis B* | Hepatitis B | Condition | Digestive | Highly Sensitive Information | x <input checked="" type="checkbox"/> |
| * This clinical item already exists within Communicare but requires modification. Follow Steps 1–16 on p. 39–43. | | | | | |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HBV HEP HEPB HEPATITIS LIVER | 10 | Classification | | | |

3. Hepatitis A immune

| GENERAL | | | | | |
|--|--------------------|--------------------|-----------|---------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis A immune | Hepatitis A immune | History | Digestive | Common | x <input checked="" type="checkbox"/> |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HEP HEPA HEPATITIS LIVER | 10 | Hepatitis A immune | | | |



4. Hepatitis B immune

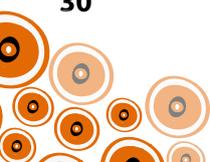
| GENERAL | | | | | |
|---|--------------------|--------------------|-----------|---------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis B immune | Hepatitis B immune | History | Digestive | Common | x <input checked="" type="checkbox"/> |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HBV HEP HEPB HEPATITIS LIVER | 10 | Hepatitis B immune | | | |

5. Hepatitis B;clinical review tests

| GENERAL | | | | | |
|---|-----------------------------------|-----------------------------------|-----------|------------------------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis B;clinical review tests | Hepatitis B;clinical review tests | Condition | Digestive | Highly Sensitive Information | x <input checked="" type="checkbox"/> |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HBV HEP HEPB HEPATITIS LIVER | 10 | Hepatitis B–clinical review tests | | | |

6. Hepatitis C;further tests

| GENERAL | | | | | |
|---|---------------------------|---------------------------|-----------|------------------------------|--|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis C;further tests | Hepatitis C;further tests | Condition | Digestive | Highly Sensitive Information | x <input checked="" type="checkbox"/> |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HCV HEP HEPC HEPATITIS LIVER | 10 | Hepatitis C–further tests | | | |



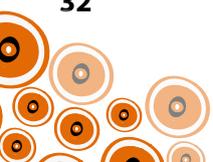
7. Review;chronic hepatitis B

| GENERAL | | | | | |
|----------------------------|----------------------------|---------------------------------------|-----------|------------------------------|----------------------|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Review;chronic hepatitis B | Review;chronic hepatitis B | Procedure | Digestive | Highly Sensitive Information | ✓ ✓ |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS | 10 | History | | | |
| \$Recall | 20 | Current alcohol consumption | | | |
| HEP | 30 | Advice/education;alcohol consumption | | | |
| HEPB | 40 | Smoking status | | | |
| HBV | 50 | Advice/education;smoking cessation | | | |
| HEPATITIS | 60 | Cannabis use | | | |
| LIVER | 70 | Advice/education;cannabis use | | | |
| | 80 | IV drug use | | | |
| | 90 | Advice/education;IV drug use | | | |
| | 100 | Physical Examination | | | |
| | 110 | Jaundice | | | |
| | 120 | Clubbing | | | |
| | 130 | Palmar erythema | | | |
| | 140 | Ascites | | | |
| | 150 | Hepatomegaly | | | |
| | 160 | Splenomegaly | | | |
| | 170 | Oedma legs | | | |
| | 180 | Height | | | |
| | 190 | Weight | | | |
| | 200 | BMI | | | |
| | 210 | Previous Investigation Results | | | |
| | 220 | HAV status / date of test | | | |
| | 230 | HBeAg / date of test | | | |
| | 240 | Anti-HBe / date of test | | | |
| | 250 | HCV / date of test | | | |
| | 260 | HDV / date of test | | | |
| | 270 | HIV | | | |
| | 280 | Albumin | | | |
| | 290 | ALT (Alanine Aminotransferase) | | | |
| | 300 | ALP (Alkaline Phosphatase) | | | |
| | 310 | Bilirubin | | | |
| | 320 | GGT (Gamma Glutamyl Transferase) | | | |
| | 330 | <11 | | | |
| | 340 | Date of last abdominal ultrasound | | | |
| | 350 | Abdominal ultrasound result | | | |
| | 360 | Date of last fibroscan | | | |
| | 370 | Fibroscan result | | | |
| | 380 | Contact Tracing | | | |
| | 390 | Contacts identified | | | |
| | 400 | - HBsAg & Anti-HBs levels | | | |
| | 410 | Provision of infection control advice | | | |
| | 420 | Further health advice provided | | | |
| | 430 | Summary | | | |
| | 440 | Phase of infection | | | |
| | 450 | Liver specialist referral | | | |



8. Hepatitis C

| GENERAL | | | | | |
|--|------------------|-----------------------|-----------|------------------------------|----------------------|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Hepatitis C* | Hepatitis C | Condition | Digestive | Highly Sensitive Information | x ✓ |
| * This clinical item already exists within Communicare but requires modification. Follow Steps 1–16 on p. 39–43. | | | | | |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS HCV HEP HEPC HEPATITIS LIVER | 10 | Hepatitis C infection | | | |



9. Review;chronic hepatitis C

| GENERAL | | | | | |
|----------------------------|----------------------------|---------------------------------------|-----------|------------------------------|----------------------|
| Formal Terms | Natural Language | Class | Topic | Viewing Right | Recallable / Enabled |
| Review;chronic hepatitis C | Review;chronic hepatitis C | Procedure | Digestive | Highly Sensitive Information | ✓ ✓ |
| KEYWORDS & QUALIFIERS | | | | | |
| Keywords | Order | Qualifier | | | |
| \$HEPATITIS | 10 | History | | | |
| \$Recall | 20 | Current alcohol consumption | | | |
| HEP | 30 | Advice/education;alcohol consumption | | | |
| HEPC | 40 | Smoking status | | | |
| HEPATITIS | 50 | Advice/education;smoking cessation | | | |
| LIVER | 60 | Cannabis use | | | |
| HCV | 70 | Advice/education;cannabis use | | | |
| | 80 | IV drug use | | | |
| | 90 | Advice/education;IV drug use | | | |
| | 100 | Physical Examination | | | |
| | 110 | Spider naevi | | | |
| | 120 | Jaundice | | | |
| | 130 | Encephalopathy | | | |
| | 140 | Palmar erythema | | | |
| | 150 | Ascites | | | |
| | 160 | Hepatomegaly | | | |
| | 170 | Splenomegaly | | | |
| | 180 | Oedma legs | | | |
| | 190 | Height | | | |
| | 200 | Weight | | | |
| | 210 | BMI | | | |
| | 220 | Previous Investigation Results | | | |
| | 230 | HAV status / date of test | | | |
| | 240 | Hepatitis B status | | | |
| | 250 | HIV | | | |
| | 260 | Albumin | | | |
| | 270 | ALT (Alanine Aminotransferase) | | | |
| | 280 | ALP (Alkaline Phosphatase) | | | |
| | 290 | Bilirubin | | | |
| | 300 | GGT (Gamma Glutamyl Transferase) | | | |
| | 310 | <11 | | | |
| | 320 | Date of last abdominal ultrasound | | | |
| | 330 | Abdominal ultrasound result | | | |
| | 340 | Date of last fibroscan | | | |
| | 350 | Fibroscan result | | | |
| | 360 | Contact Tracing | | | |
| | 370 | Contacts identified | | | |
| | 380 | Provision of infection control advice | | | |
| | 390 | Further health advice provided | | | |
| | 400 | Summary | | | |



CREATING THE CLINICAL ITEM

Using the example; **Hepatitis Screen; Investigation Request** with qualifier **Hepatitis Screen; investigation request**

Follow Steps 1–13;

The image shows a screenshot of the 'Communicare Demo - ADMINISTRATOR' software window. The 'File' menu is open, and the 'Reference Tables' option is selected. The 'Reference Tables' sub-menu is also open, and the 'Clinical Item Types...' option is highlighted. Three red circles are drawn around the 'File' menu, the 'Reference Tables' option, and the 'Clinical Item Types...' option to indicate the steps. The software interface includes a menu bar with 'File', 'Patient', 'Transport', 'Report', 'Tools', and 'Help'. Below the menu bar are several icons for 'Clinical Record', 'Browse MIMS Drug Data', 'Patient Summary', 'Patient Labels', 'Documents and Results', and 'Transport Management'. The 'Reference Tables' sub-menu contains various options such as 'Certificates...', 'Appointments', 'Requirements...', 'Public Holidays...', 'Import MIMS Pharmaceutical Data...', 'Extemporaneous Preparations...', 'Locality...', 'Locality Group...', 'Patient Skin...', 'Patient Groups...', 'Encounter Place...', 'Encounter Program...', 'Provider...', 'Text Shortcuts...', 'Dosage Instructions...', 'Medicare Benefits Schedule', 'Investigations', 'Clinical Item Types...', 'Clinical Item Keywords...', 'Clinical Item Topics...', 'Qualifier Types...', 'Transport Mode...', 'Chart Types...', 'Clinical Item Groups...', 'Viewing Rights...', and 'Automated Recall Types...'. The 'Clinical Item Types...' option has the keyboard shortcut 'Ctrl+Alt+C' next to it.

Hepatitis screen;investigation request: Properties

General Keywords & Qualifiers Groups

Keywords that can be used to find: Hepatitis screen;investigation request

Qualifiers linked to: Hepatitis screen;investigation request

Keyword

- \$Hepatitis
- HCV
- HBV
- HEPB
- HEPATITIS
- LIVER

Order Qualifier Unit Required Interval Highlight Blank Enabled Min Age Max Age Show Tab

| Order | Qualifier | Unit | Required | Interval | Highlight Blank | Enabled | Min Age | Max Age | Show Tab |
|-------|-----------|------|--------------------------|----------|--------------------------|--------------------------|---------|---------|--------------------------|
| | | | <input type="checkbox"/> | | <input type="checkbox"/> | <input type="checkbox"/> | | | <input type="checkbox"/> |

7. Add Keywords

Save Cancel Help

List of qualifiers linked to this clinical item type

ADDING THE QUALIFIER

The **Order** defines the order in which the qualifiers will appear within the Clinical Item (setting the **Order** in increments of 10, 20 30 etc., makes the qualifiers easier to manipulate later if necessary).

Follow Steps 8–13;

8. Enter '10' in the **Order** box

9. Click in the **Qualifier** box and start typing the name of the qualifier to add e.g. **Hepatitis screen;investigation request**

10. Click on the qualifier

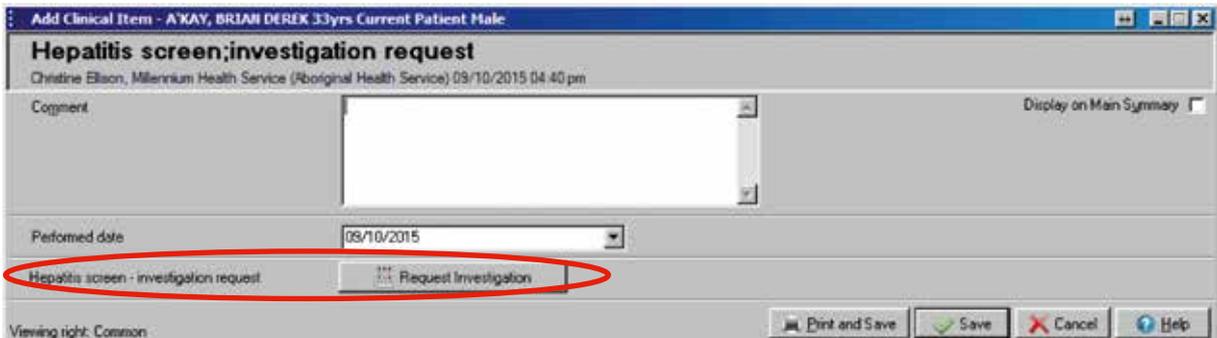
11. Click **+** if more qualifiers are required. Continue until the final qualifier is added.

12. Click **Save**

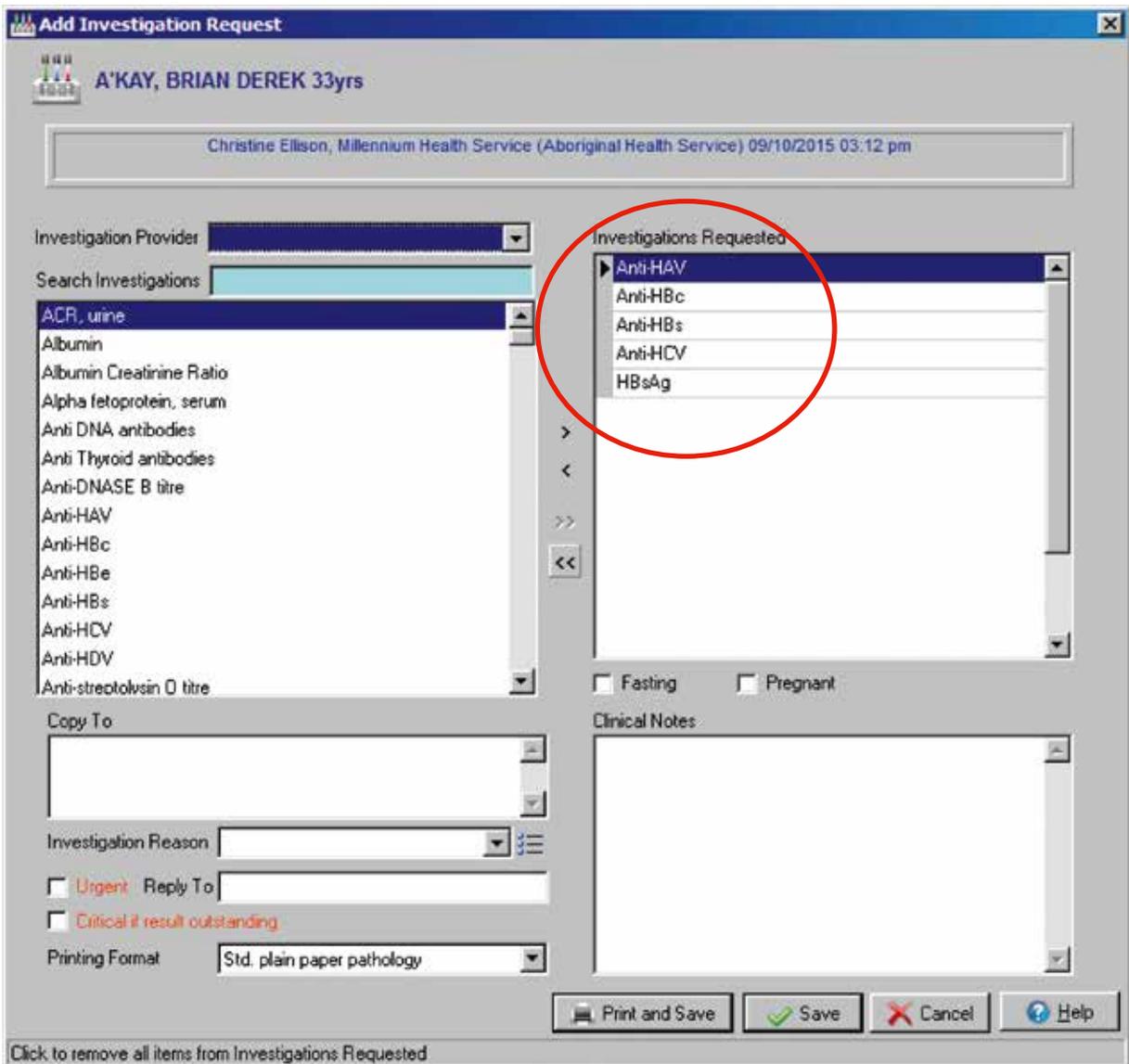
13. Click **Close**

The clinical item will be accessible from the **Hepatitis** quick button when you next log into Communicare (as it has the \$**Hepatitis** keyword attached to it).

Clinical item **Hepatitis Screen; Investigation Request** with qualifier;



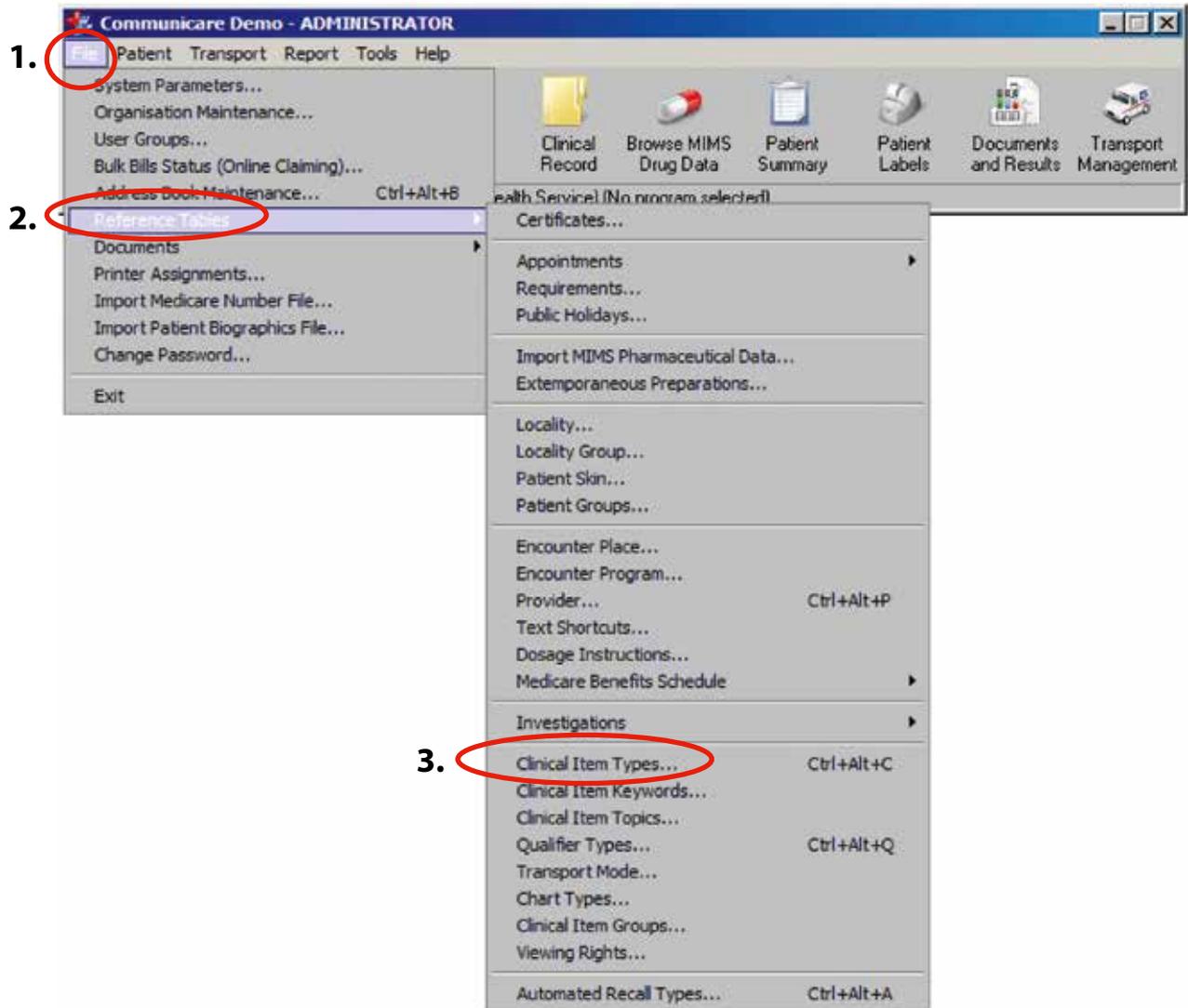
Clicking on the **Request Investigation** button qualifier takes the provider to the **Add Investigation Request** window



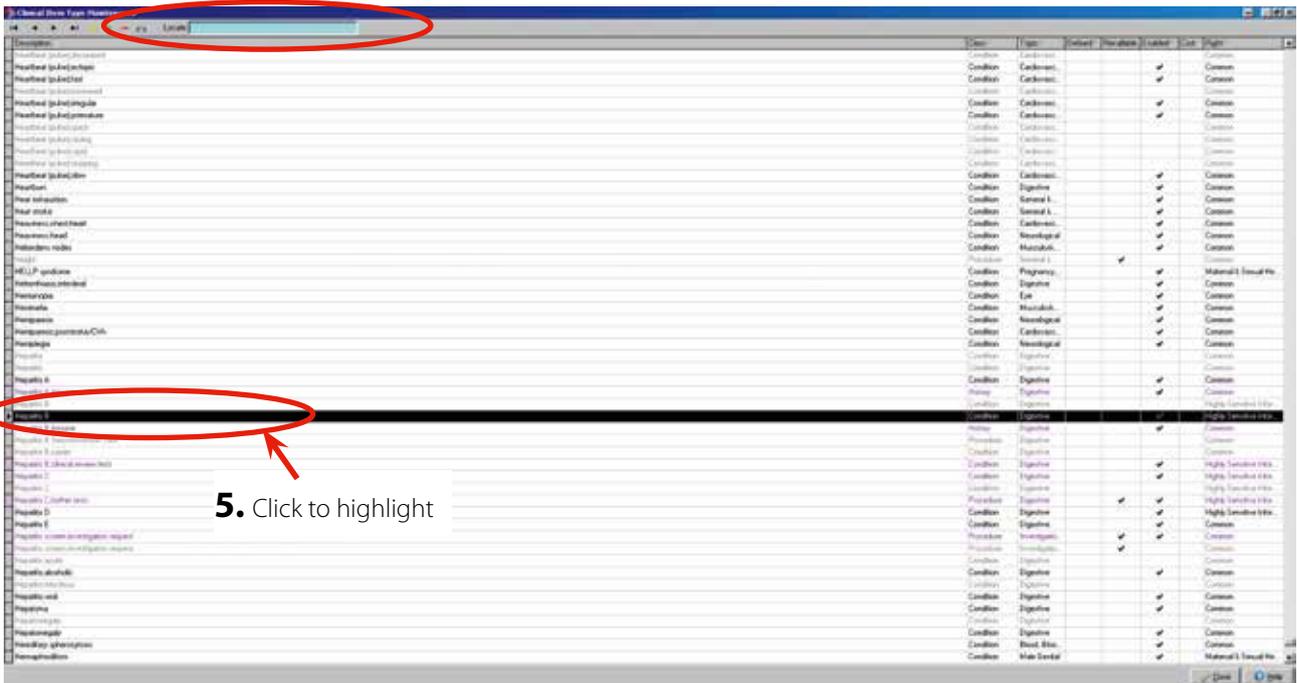
The investigations are automatically selected as they are linked to the keyword entered in **Qualifier Type Properties** as per p. 26.

MODIFYING AN EXISTING CLINICAL ITEM

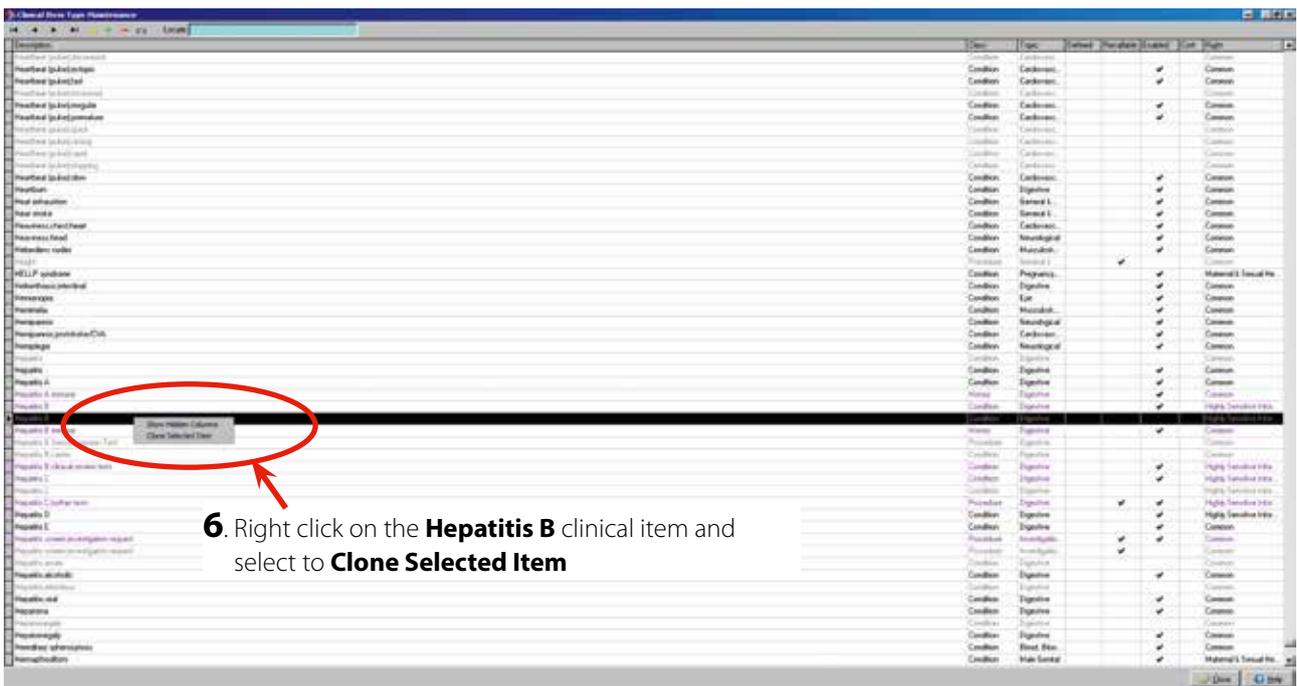
Using the example of the clinical item **Hepatitis B**, follow Steps 1–16 to modify a clinical item;



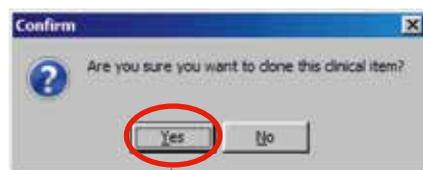
4. Begin typing the name of the clinical item- **Hepatitis** in **Locate**



5. Click to highlight

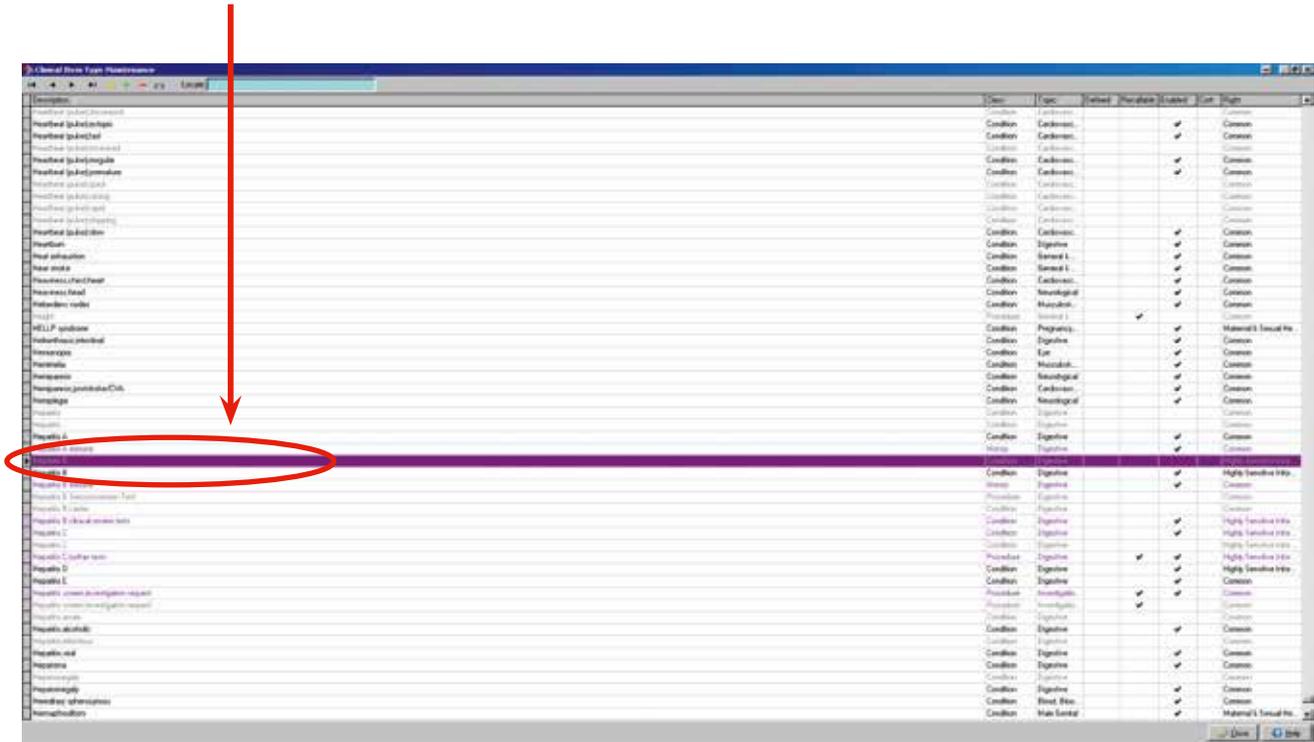


6. Right click on the **Hepatitis B** clinical item and select to **Clone Selected Item**

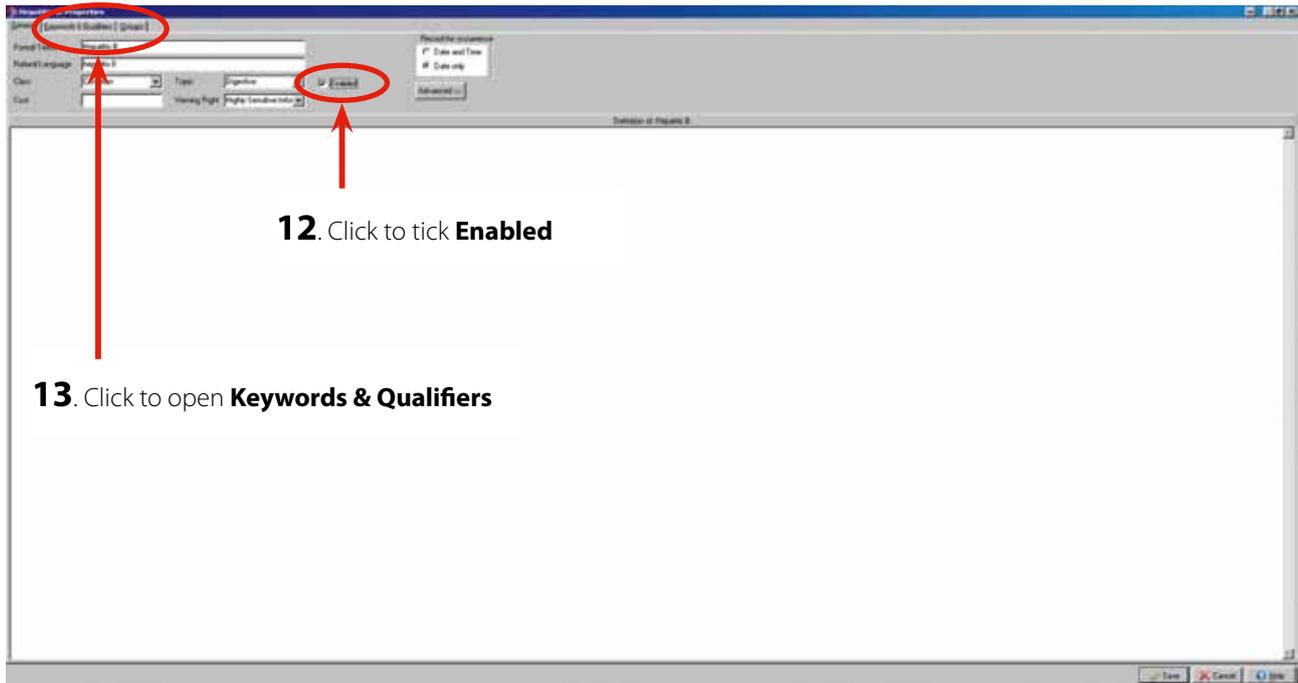


7. Select **Yes**

11. Double click on the cloned clinical item to open the **Hepatitis B; Properties**



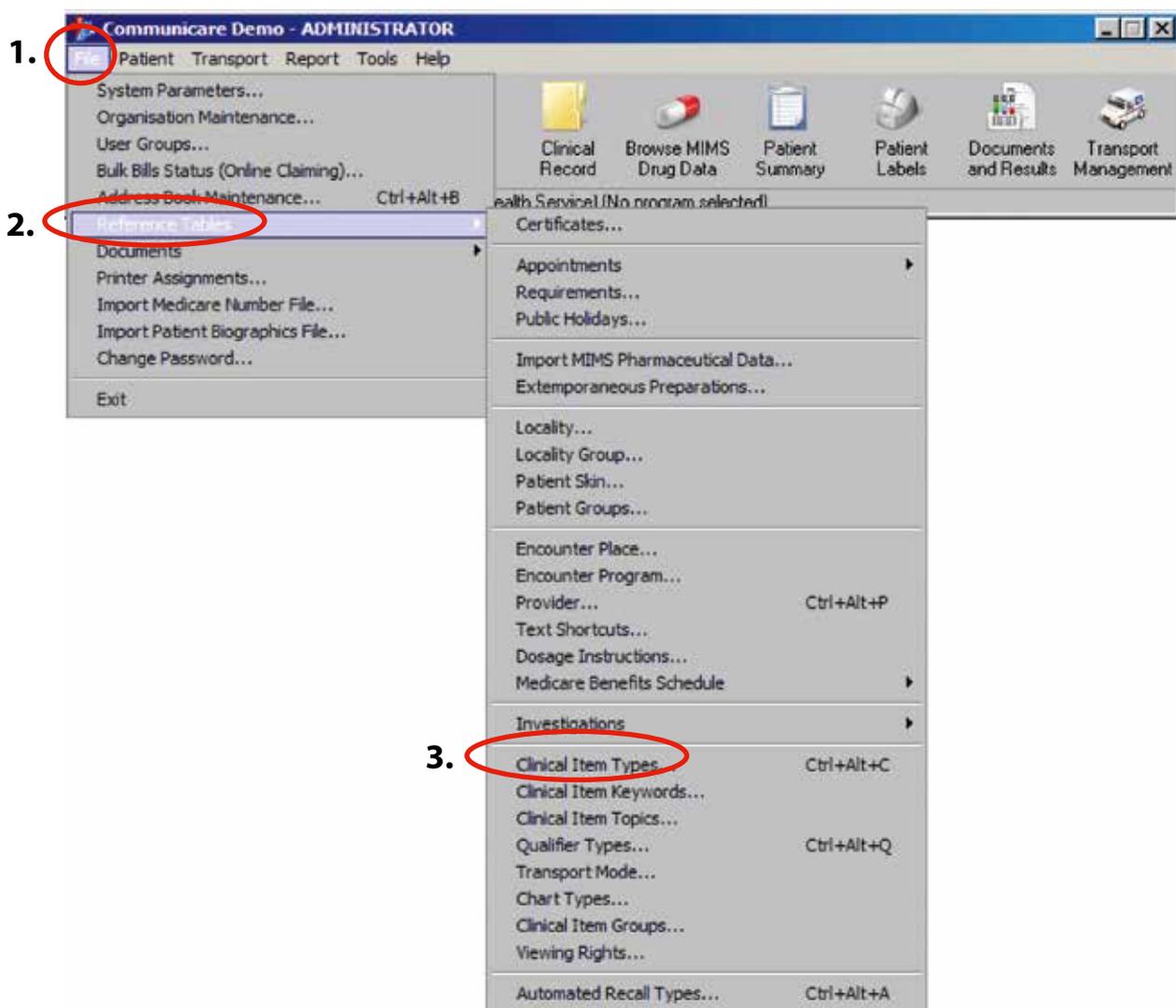
12. Click to tick **Enabled**



13. Click to open **Keywords & Qualifiers**

ADDING A RECALL TO THE ADD A MANUAL RECALL ICON

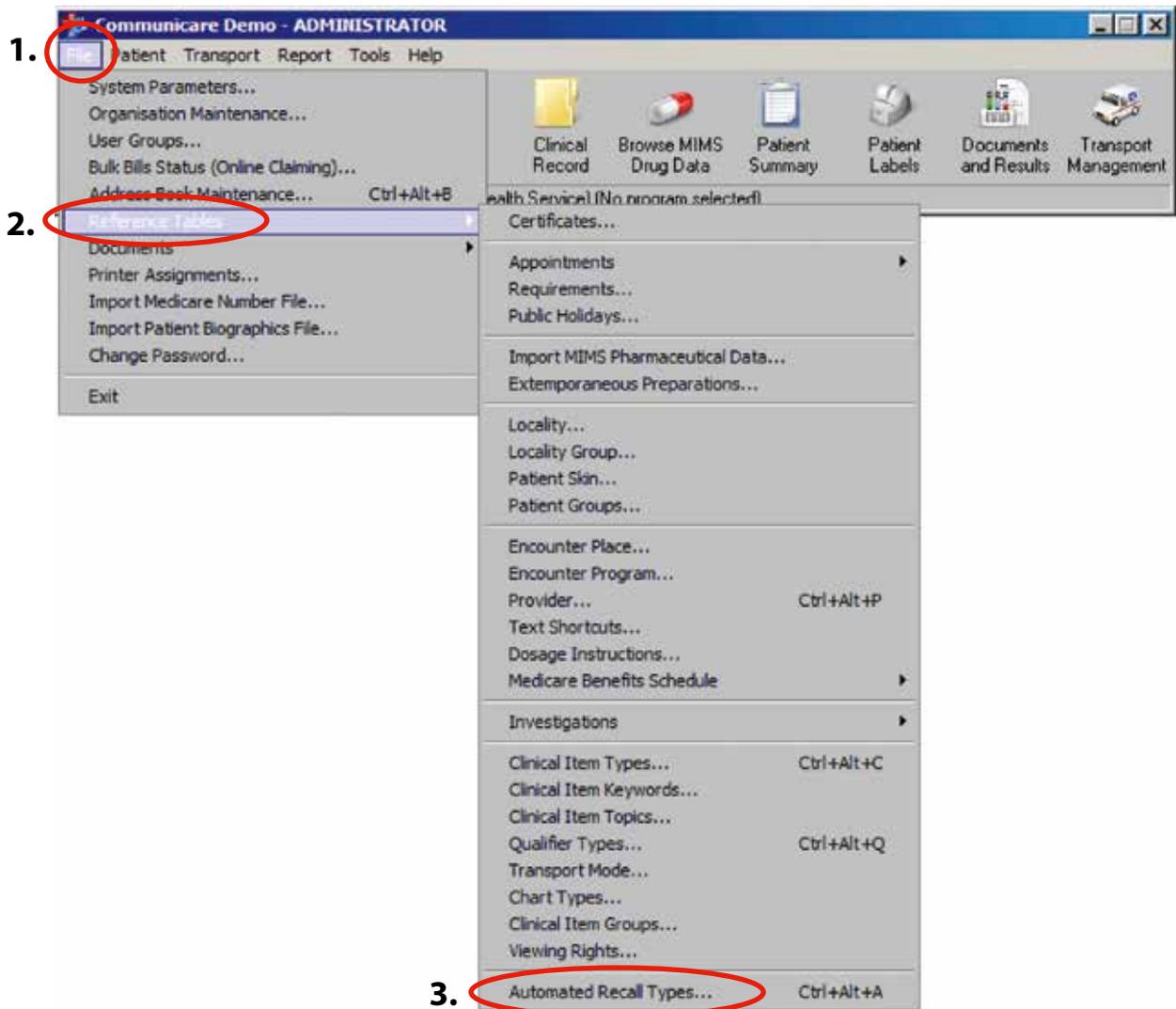
Using the example of clinical item **Investigation;request**, follow Steps 1–9;



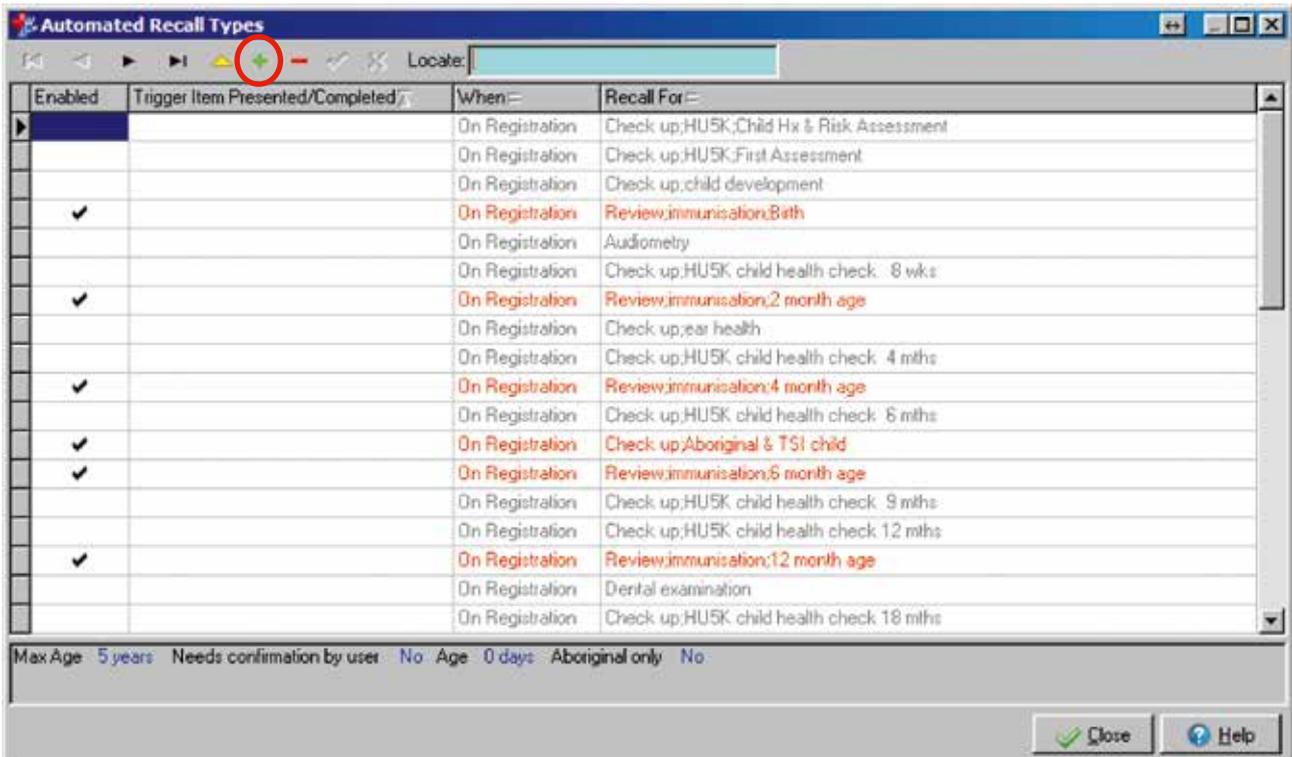
AUTOMATED RECALLS

To generate a recall for an **Investigation;request** when the **Hepatitis B;clinical review tests** clinical item has been completed, an Automated Recall needs to be created.

Follow Steps 1–8;



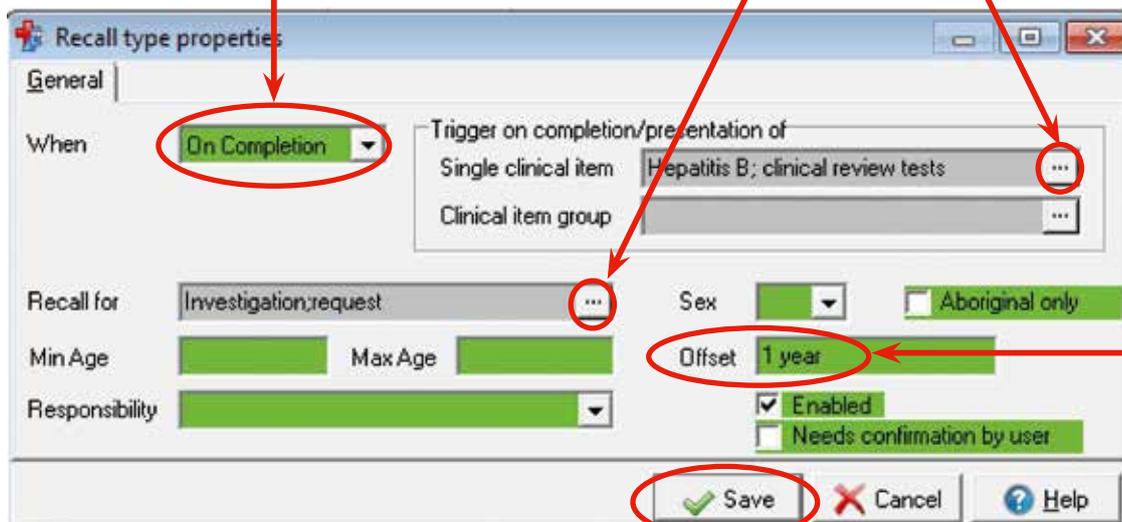
4. Click on 



The **Recall Type Properties** window will open;

5. Choose **On Completion** from the dropdown list

6. When you click on the ellipsis, the **Clinical Terms Browser** window will open. Search and select the **Hepatitis B; clinical review tests** clinical item and then the **Investigation;request** clinical item.



7. The **Offset** needs to be set for 1 year

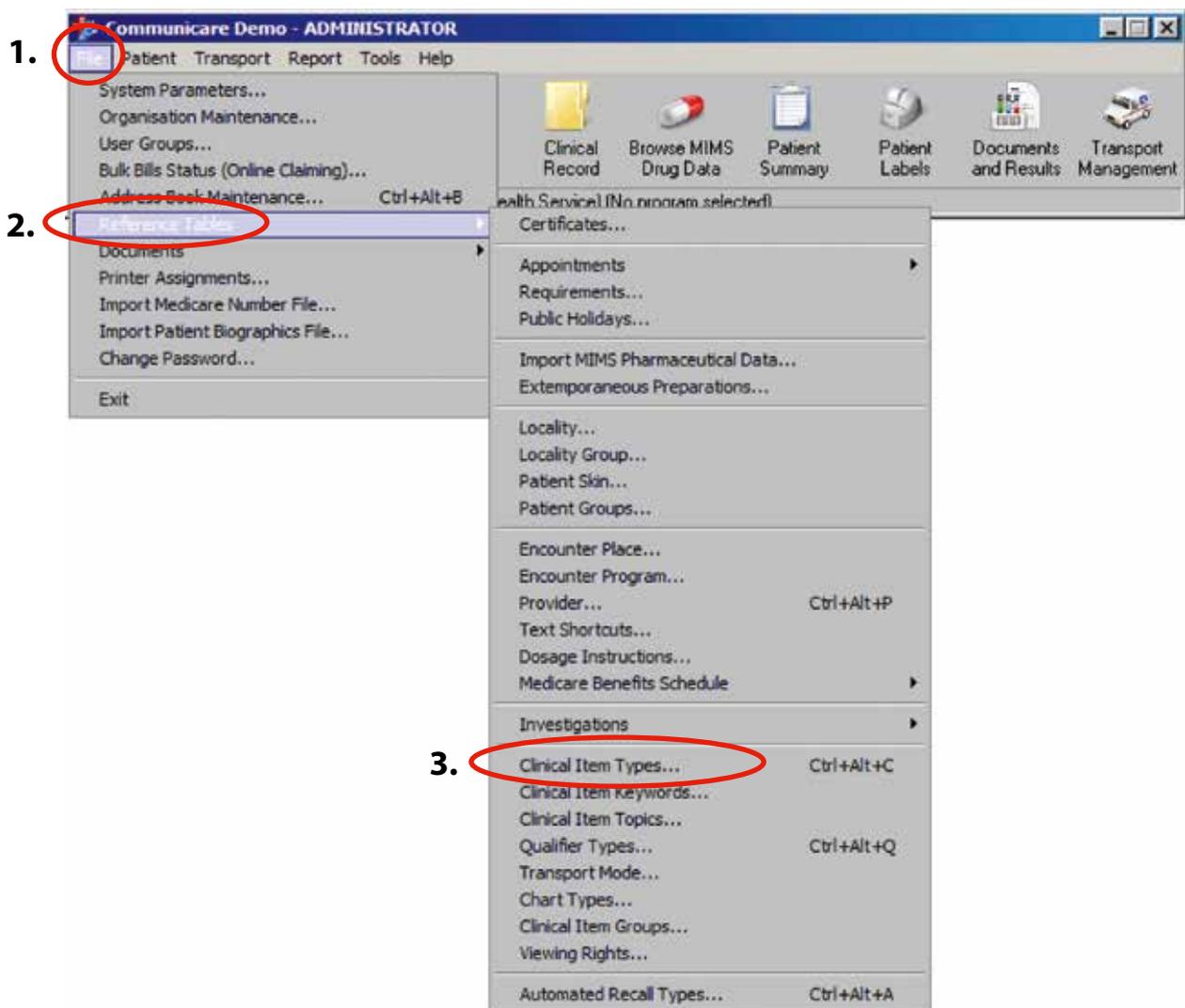
8. Click **Save**

DISABLING CLINICAL ITEMS

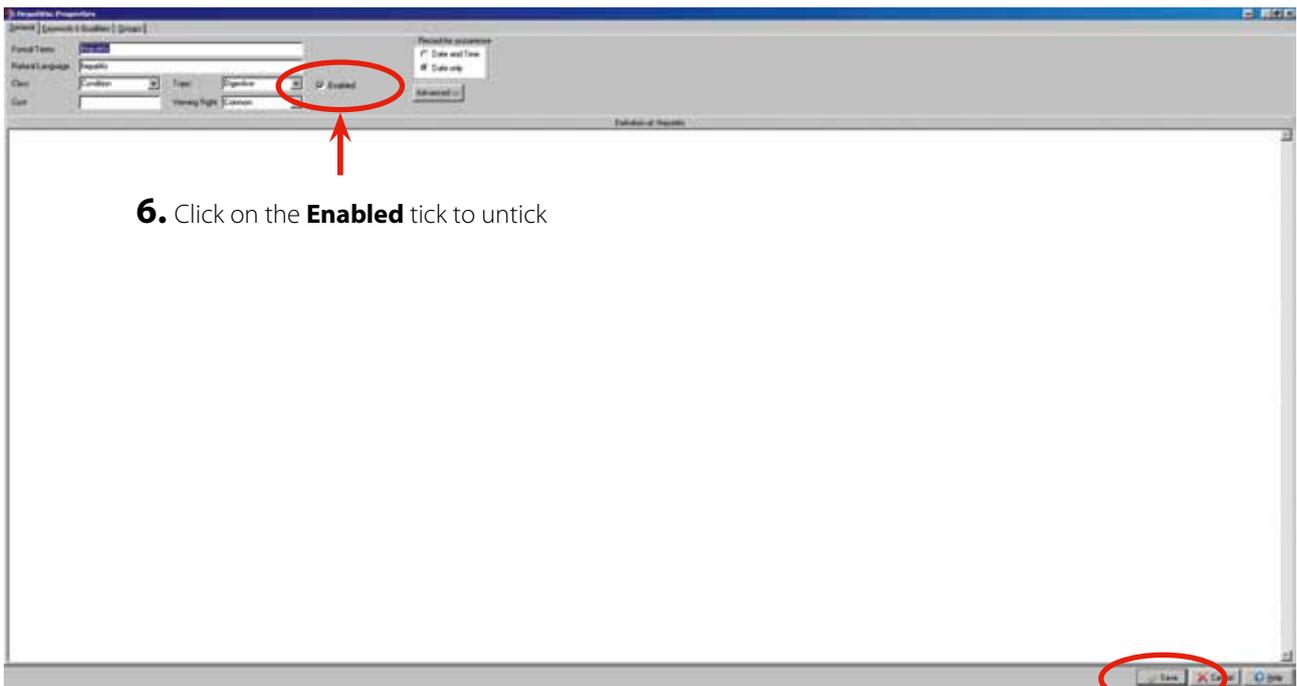
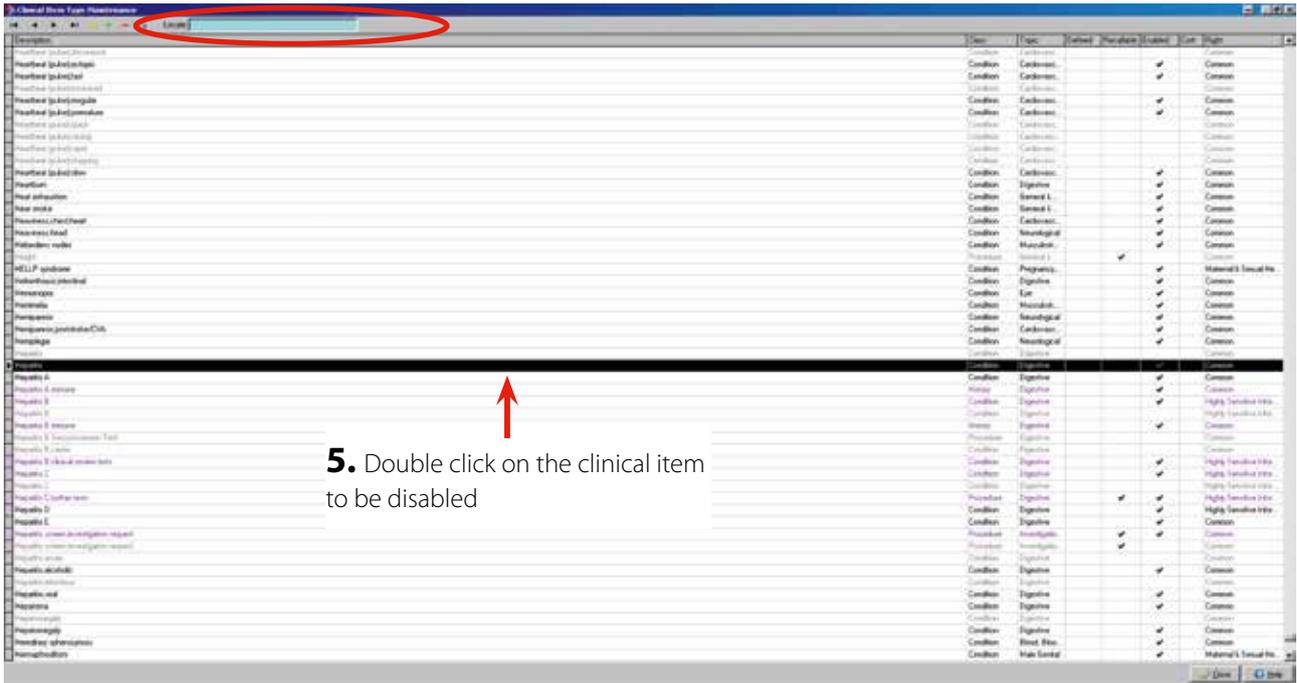
To encourage the most appropriate documentation of a diagnosis of Hepatitis, the following list of clinical items maintained by Communicare requires disabling;

- Hepatitis
- Hepatitis B;carrier
- Hepatitis;infectious
- Hepatitis;viral

To do this, follow Steps 1–8;



4. Type **Hepatitis** in the **Locate** search box.



Repeat Steps 5–7 to disable each clinical item listed.

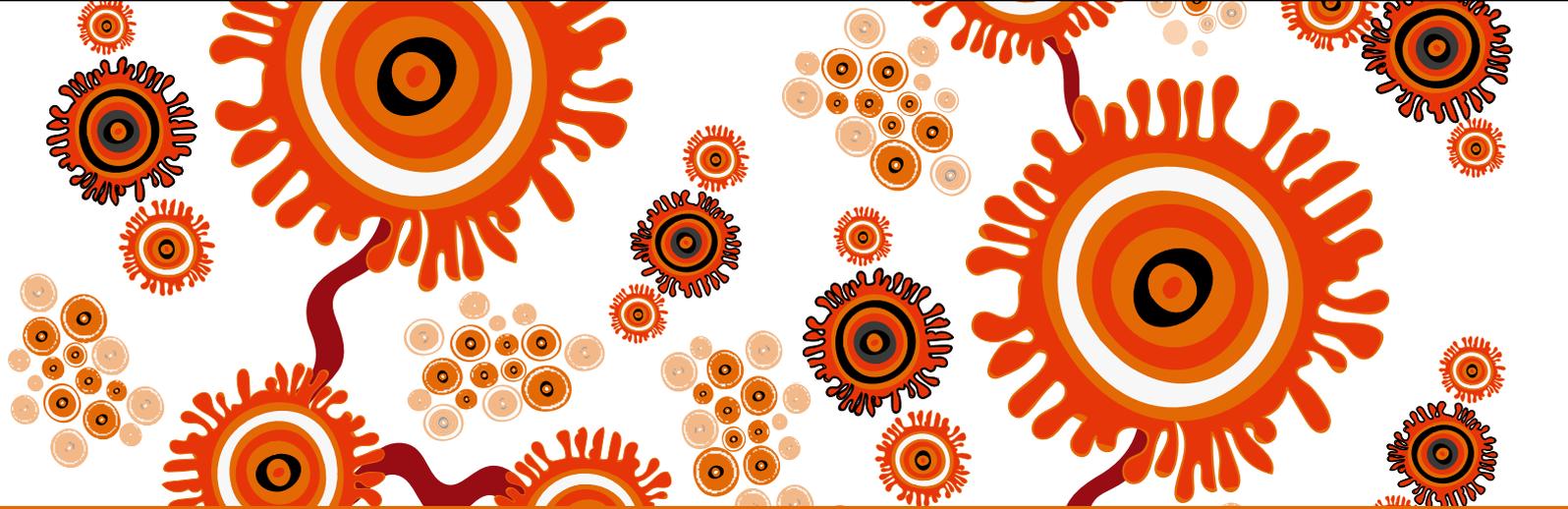
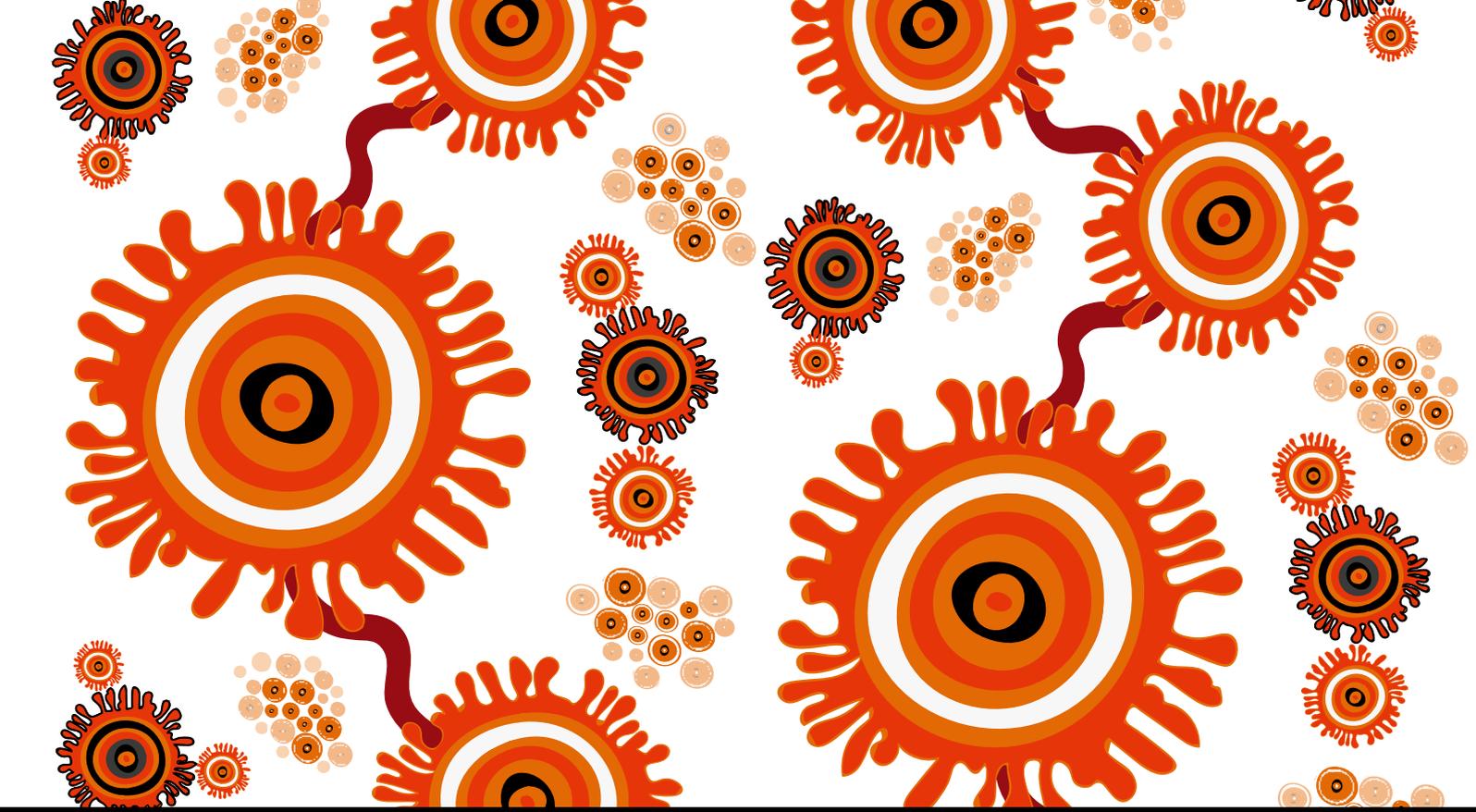
| Item | Type | Enabled | Therapy | Linked | Unit | Sign |
|----------|-----------|------------|---------|-------------------------------------|------|--------|
| Item 1 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 2 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 3 | Condition | Cardiology | | <input checked="" type="checkbox"/> | | Common |
| Item 4 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 5 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 6 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 7 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 8 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 9 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 10 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 11 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 12 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 13 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 14 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 15 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 16 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 17 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 18 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 19 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 20 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 21 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 22 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 23 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 24 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 25 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 26 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 27 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 28 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 29 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 30 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 31 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 32 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 33 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 34 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 35 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 36 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 37 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 38 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 39 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 40 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 41 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 42 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 43 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 44 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 45 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 46 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 47 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 48 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 49 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 50 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 51 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 52 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 53 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 54 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 55 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 56 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 57 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 58 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 59 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 60 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 61 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 62 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 63 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 64 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 65 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 66 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 67 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 68 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 69 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 70 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 71 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 72 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 73 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 74 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 75 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 76 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 77 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 78 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 79 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 80 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 81 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 82 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 83 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 84 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 85 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 86 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 87 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 88 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 89 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 90 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 91 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 92 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 93 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 94 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 95 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 96 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 97 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 98 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 99 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |
| Item 100 | Condition | Neurology | | <input checked="" type="checkbox"/> | | Common |



8. Click Close

There may be additional clinical items created locally that need to be disabled. This will need to be considered.





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