

COMMUNICARE ADMINISTRATOR MANUAL VIRAL HEPATITIS







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.
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ABOUT THE ARTWORK	Warriappendi is a Kaurna word meaning to "Look Seek or Find".
"WARRIAPPENDI"	Artwork description. The artwork "Warriannendi" tells the story of how blood home viruses such as benatitis

(Look Seek 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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is published by the: Australasian Society for HIV, Viral Hepatitis and Sexual Health Medicine (ASHM) Locked Bag 5057, Darlinghurst, NSW 1300

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ABN 48 264 545 457 CFN 17788

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First published 2015 ISBN 978-1-921850-25-7

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Funded by: The Australian Government Department of Health

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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

Investigation //	Investigation Sub-Type:=	Site	Ext. Code	Ext. Code Type	Short Listed	Enabled
HCG, quantitation	Biochemistry		C1349	APC KEY	4	A
lelicobacter pylori antibodies	Immunology		C1665	APC KEY	V	V
lelicobacter pylori antigen, faeces	Microbiology		C1581	APC KEY		Ā
Helicobacter pylori breath test	Microbiology		C1582	APC KEY	V	Ā
Helicobacter pylori culture	Microbiology		C1583	APC KEY	7 Un	tick Sk
		blood	C1141	APC KEY	7 • 011	-tick 3 1
6. Scroll through list to identify t	hose	plasma	C1142	APC KEY	List	ed and
investigations to be disable	4	blood	C1143	APC KEY	En	abled
		blood	C1144	APC KEY		L
lepain, assay	Haematology		C1145	APC KEY		V
Hepatitis "B immune status post exposure	Immunology	serum	C1666	APC KEY	V	V
Hepatitis ,8 immune status post usseination	Immunology	serum	C1667	APC KEY	M	M
Hepatitis A and B, immune status	Immunology	serum	C1668	APC KEY	V	A
Hepatitis A B or C, acute	Immunology	serum	C1669	APC KEY	P	Ā
lepatitis A, acute	Immunology	serum	C1670	APC KEY		Ā
Hepatitis A, immune status	Immunology	serum	C1671	APC KEY		M
Hepatitis B & C immune status	Immunology	serum	C1672	APC KEY		M
Hepatitis B serology	Microbiology					Ā
lepatitis B, acute or resolving	Immunology	serum	C1673	APC KEY		A
	Immunology	serum	C1674	APC KEY	I	V
Hepatitis B, chronic or carriage of Hep. B antigen						

0

0

8. Continue until all listed Investigations are disabled

• • > > > - + - < ×	Locate:					1.1
Investigation 🖉	Investigation Sub-Type =	Site≔	Ext. Code	Ext. Code Type	Short Listed	Enabled
HBV DNA viral load	Immunology	serum			7	V
HCG for diagnosis of pregnancy	Biochemistry		C1768	APC KEY	•	
HCG, quantitation	Biochemistry		C1349	APC KEY	•	
HCV RNA viral load & genotype	Immunology	serum	C1679	APC KEY	7	
Helicobacter pylori antibodies	Immunology		C1665	APC KEY	•	
Helicobacter pylori antigen, faeces	Microbiology		C1581	APC KEY		
Helicobacter pylori breath test	Microbiology		C1582	APC KEY	V	R
Helicobacter pylori culture	Microbiology		C1583	APC KEY		
Heparin antibodies	Haematology	blood	C1141	APC KEY		R
Heparin cofactor II	Haematology	plasma	C1142	APC KEY		
Heparin induced thrombocytopenia	Haematology	blood	C1143	APC KEY		
Heparin neutralisation	Haematology	blood	C1144	APC KEY		
Heparin, assay	Haematology		C1145	APC KEY		R
Hepatitis .B immune status post exposure	Immunology	serum	C1666	APC KEY	Г	
Hepatitis ,B immune status post vaccination	Immunology	serum	C1667	APC KEY		M
Hepatitis A and B, immune status	Immunology	serum	C1668	APC KEY		V
Hepatitis A B or C, acute	Immunology	serum	C1669	APC KEY		
Hepatitis A, acute	Immunology	serum	C1670	APC KEY		
Hepatitis A, immune status	Immunology	serum	C1671	APC KEY	•	
Hepatitis B & C immune status	Immunology	serum	C1672	APC KEY		
Hanable B. caralane.	A Canada Calanas				_	-

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)



7

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

nvestigation	Investigation Sub-Type =	Site=	Ext. Code	Ext. Code Type	Short Listed	Enabled
1 Deoxycortisol	Biochemistry		C1012	APC KEY		2
7-Hydroxyprogesterone	Biochemistry	serum	C1013	APC KEY		2
Aminolaevuinate	Biochemistry	urine	C1014	APC KEY		2
bnormal haemoglobins	Haematology	blood	C1001	APC KEY		V
cid elution for Haemoglobin F	Haematology	blood	C1002	APC KEY		2
cid phosphatase	Biochemistry	plasma/serum	C1015	APC KEY		2
cid phosphatase, prostatic	Biochemistry	plasma/serum	C1016	APC KEY		R
CR, urine	Biochemistry	urine			M	V
ctinomycetes precipitins	Microbiology	serum	C1059	APC KEY		R
ctivated partial thromboplastin time	Haematology	plasma	C1004	APC KEY		V
ctivated protein C resistance	Haematology	plasma	C1005	APC KEY		V
denosine deaminase	Biochemistry	red cells	C1017	APC KEY		R
denovirus antibodies	Microbiology	serum	C1060	APC KEY		R
denovirus PCR	Microbiology		C1061	APC KEY		M
drenocorticotrophic hormone	Biochemistry	plasma	C1018	APC KEY		V
lanine aminotransferase	Biochemistry	plasma/serum	C1019	APC KEY		V
bumin	Biochemistry	plasma/serum	C1020	APC KEY	V	V
burnin Creatinine Ratio	Biochemistry	plasma/serum			R	V
bumin, urine	Biochemistry		C1021	APC KEY		V
dosterone	Biochemistry	plasma	C1022	APC KEY		V
Mantanana	Ola also and share		C1022	ADD VEV	_	

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

	25 Locale:					
Investigation 🕅	Investigation Sub-Type=	Site≔	Ext. Code	Ext. Code Type	Short Listed	Enabled
11 Deoxycontisol	Biochemistry		C1012	APC KEY		ব
17-Hydroxyprogesterone	Biochemistry	serum	C1013	APC KEY		•
5-Aminolaevuinate	Biochemistry	urine	C1014	APC KEY		N
Abnormal haemoglobins	Haematology	blood	C1001	APC KEY		•
Acid elution for Haemoglobin F	Haematology	blood	C1002	APC KEY		V
Acid phosphatase	Biochemistry	plasma/serum	C1015	APC KEY		V
Acid phosphatase, prostatic	Biochemistry	plasma/serum	C1016	APC KEY		M
ACR, urine	Biochemistry	urine			R	R
Actinomycetes precipitins	Microbiology	serum	C1059	APC KEY		M
Activated partial thromboplastin time	Haematology	plasma	C1004	APC KEY		V
Activated protein C resistance	Haematology	plasma	C1005	APC KEY		V
Adenosine deaminase	Biochemistry	red cells	C1017	APC KEY		M
Adenovirus antibodies	Microbiology	serum	C1060	APC KEY		R
Adenovirus PCR	Microbiology		C1061	APC KEY		1
Adrenocorticotrophic hormone	Biochemistry	plasma	C1018	APC KEY		1
Alanine aminotransferase	Biochemistry	plasma/serum	C1019	APC KEY		Ā
Albumin	Biochemistry	plasma/serum	C1020	APC KEY		M
Albumin Creatinine Ratio	Biochemistry	plasma/serum				R
Albumin, urine	Biochemistry		C1021	APC KEY		M
Aldosterone	Biochemistry	plasma	C1022	APC KEY		•
Aldersen a subse	Disabase internet		C1000	ADD VEV	_	



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

Investigation // Investigation Sub-Type : Site : Ext. Code Ext. Code type Short Listed Enable Ant-HAV Immunology perum C1012 APC KEY Immunology perum 11 Decoxpoortisol Bitochemistry serum C1013 APC KEY Immunology perum 5-Aminolsevuinate Bitochemistry unine C1014 APC KEY Immunology perum Actid phosphatase Bitochemistry unine C1014 APC KEY Immunology perum Acid phosphatase, prostatic Bitochemistry blond C1014 APC KEY Immunology perum Acid phosphatase, prostatic Bitochemistry blond C1015 APC KEY Immunology plond C1015 APC KEY Immunology plond C1015 APC KEY Immunology plasma C1015 APC KEY Immunology plasma C1015 APC KEY Immunology plasma Listed' and 'Enable boxes are till boxes are tillisted and	Investigation			_			•
Investigation Sub-Type: Site: Ext. Code Ext. Code <thext. code<="" th=""> Ext. Code <thext. co<="" th=""><th></th><th>× Locate:</th><th>le:</th><th>1</th><th>1</th><th></th><th></th></thext.></thext.>		× Locate:	le:	1	1		
Anti-HAV Immunology perum C1012 APC KEY M	Investigation /	Investigation Sub-Type =	Site≔	Ext. Code	Ext. Code Typ	be Short Listed	Enabl
11 Deoxycortisol Biochemistry seeum C1012 APC KEY F 17-Hydicoxyprogesterone Biochemistry urine C1013 APC KEY F 5-Aminolaevuinate Biochemistry urine C1014 APC KEY F Abnormal haemoglobins Haematology blond C1001 APC KEY F Acid elution for Haemoglobin F Haematology blond C1001 APC KEY F Acid phosphatase Biochemistry blond C1015 APC KEY F F Acid phosphatase Biochemistry blond C1015 APC KEY F F Acid phosphatase Biochemistry P Type "serum" C1016 APC KEY F F Activated partial thromboplastin time Haematology plasma C1005 APC KEY boxes are ti Adenovirus antibodies Microbiology serum C1060 APC KEY F Adenovirus antibodies Microbiology serum C1060 APC KEY F Adenovirus antibodies Microbiology serum C1061	Anti-HAV	Immunology	serum				
17-Hydroxyprogesterone Biochemistry setim C1013 APC KEY Image: Setim C1014 APC KEY Image: Setim Setim C1014 APC KEY Image: Setim Image: Setim C1014 APC KEY Image: Setim Image: Setim Setim C1014 APC KEY Image: Setim Image: Setim Image: Setim Setim C1014 APC KEY Image: Setim Image: Setim Image: Setim Setim Acid elution for Haemoglobins Haematology blowd C1001 APC KEY Image: Setim Image: Setim Setim Acid phosphatase Biochemistry Biochemistry Biochemistry Biochemistry Biochemistry Image: Setim	11 Deoxycortisol	Biocriemistry		C1012	APC KEY		
S-Aminolaevuinate Biochemistry ume C1014 APC KEY Image: Close of the semiglobin s	17-Hydroxyprogesterone	Biochemistry	serim	C1013	APC KEY		
Abnormal haemoglobins Haematology blond C1001 APC KEY Image: Close of the second seco	5-Aminolaevuinate	Biochemistry	urine	C1014	APC KEY		F
Acid elution for Haemoglobin F Haematology Biodd C1002 APC KEY Acid phosphatase Biochemistry 9. Type "serum" C1015 APC KEY 10. Make sum Acid phosphatase, prostatic Biochemistry Biochemistry In the Site 10. Make sum Activated partial thromboplastin time Haematology plasma C1005 APC KEY boxes are till Activated partial thromboplastin time Haematology plasma C1005 APC KEY boxes are till Activated protein C resistance Haematology plasma C1005 APC KEY boxes are till Adenovirus antibodies Microbiology serum C1060 APC KEY F Adenovirus PCR Microbiology serum C1060 APC KEY F Adenovirus PCR Microbiology serum C1016 APC KEY F Alarine aminotransferase Biochemistry plasma/serum C1019 APC KEY F Albumin Biochemistry plasma/serum C1019 APC KEY F F Alarine aminotransferase Biochemistry plasma/serum	Abnormal haemoglobins	Haematology	blord	C1001	APC KEY		E
Acid phosphatase Biochemistry 9. Type "serum" C1015 APC KEY 10. Make sum Listed and 'En Acid phosphatase, prostatic Biochemistry In the Site C1016 APC KEY Listed and 'En Actinomycetes precipitins Microbiology persum C1059 APC KEY Listed and 'En Activated partial thromboplastin time Haematology plasma C1005 APC KEY Listed and 'En Activated protein C resistance Haematology plasma C1005 APC KEY Image: Second Sec	Acid elution for Haemoglobin F	Haematology	blord	C1002	APC KEY		
Acid phosphatase, prostatic Biochemistry If y per serverin C1016 APC KEY Listed' and 'En ACR, urine Biochemistry in the Site Listed' and 'En boxes are ti Activated partial thromboplastin time Haematology plasma C1004 APC KEY boxes are ti Activated partial thromboplastin time Haematology plasma C1005 APC KEY boxes are ti Activated protein C resistance Haematology plasma C1005 APC KEY F Adenovirus antibodies Microbiology serum C1060 APC KEY F Adenovirus antibodies Microbiology serum C1061 APC KEY F Adenovirus PCR Microbiology serum C1016 APC KEY F Adenovirus PCR Microbiology serum C1018 APC KEY F Alarine aminotransferase Biochemistry plasma/serum C1019 APC KEY F Albumin Biochemistry plasma/serum C1020 APC KEY F F Albumin Creatinine Ratio Biochemistry plasma/serum <td< td=""><td>Acid phosphatase</td><td>Biochemistry</td><td>Type "serum"</td><td>C1015</td><td>APC KEY</td><td>- 10 Maka</td><td>. cure</td></td<>	Acid phosphatase	Biochemistry	Type "serum"	C1015	APC KEY	- 10 Maka	. cure
ACR, urine Biochemistry In the Site Listed'and 'End Actinomycetes precipitins Microbiology serum C1059 APC KEY boxes are till Activated partial thromboplastin time Haematology plasma C1004 APC KEY boxes are till Activated protein C resistance Haematology plasma C1005 APC KEY Image: Close and	Acid phosphatase, prostatic	Biochemistry	• type setuin	C1016	APC KEY	IV. Make	Sure
Actinomycetes precipitins Microbiology serum C1059 APC KEY boxes are till Activated partial thromboplastin time Haematology plasma C1004 APC KEY Image: Serum boxes are till Activated protein C resistance Haematology plasma C1005 APC KEY Image: Serum Image: Serum C1005 APC KEY Image: Serum Image: Serum C1006 APC KEY Image: Serum Image: Serum Image: Serum C1061 APC KEY Image: Serum	ACR, urine	Biochemistry	in the Site			Listed' and	d 'En
Activated partial thromboplastin time Haematology plasma C1004 APC KEY Activated protein C resistance Haematology plasma C1005 APC KEY Image: C1007	Actinomycetes precipitins	Microbiology	serum	C1059	APC KEY	boxes a	re tio
Activated protein C resistance Haematology plasma C1005 APC KEY Image: C1005 APC KEY	Activated partial thromboplastin time	Haematology	plasma	C1004	APC KEY		
Adenosine deaminase Biochemistry red cells C1017 APC KEY Image: Constraint of the second sec	Activated protein C resistance	Haematology	plasma	C1005	APC KEY		E.
Adenovirus antibodies Microbiology serum C1060 APC KEY Image: Clock of the serum Adenovirus PCR Microbiology C1061 APC KEY Image: Clock of the serum C1061 APC KEY Image: Clock of the serum Image: Clock of the serum Clock of the serum Image: Clock of the serum Image	Adenosine deaminase	Biochemistry	red cells	C1017	APC KEY		E I
Adenovirus PCR Microbiology C1061 APC KEY Image: Clock of the state of the stat	Adenovirus antibodies	Microbiology	serum	C1060	APC KEY		E.
Adrenocotticotrophic hormone Biochemistry plasma C1018 APC KEY Image: Close state Alanine aminotransferase Biochemistry plasma/serum C1019 APC KEY Image: Close state Albumin Biochemistry plasma/serum C1020 APC KEY Image: Close state Albumin Creatinine Ratio Biochemistry plasma/serum C1021 APC KEY Image: Close state Albumin, urine Biochemistry Close state C1021 APC KEY Image: Close state	Adenovirus PCR	Microbiology		C1061	APC KEY		E I
Alanine aminotransferase Biochemistry plasma/serum C1019 APC KEY Image: Constraint of the serum Albumin Biochemistry plasma/serum C1020 APC KEY Image: Constraint of the serum Image: Cons	Adrenocorticotrophic hormone	Biochemistry	plasma	C1018	APC KEY		E I
Albumin Biochemistry plasma/serum C1020 APC KEY Image: Constraint of the serum Albumin Creatinine Ratio Biochemistry plasma/serum Image: Constraint of the serum Image: Constraint of the serum Albumin, urine Biochemistry C1021 APC KEY Image: Constraint of the serum	Alanine aminotransferase	Biochemistry	plasma/serum	C1019	APC KEY		F
Albumin Creatinine Ratio Biochemistry plasma/serum Image: Clock Image: Clock Albumin, urine Biochemistry Clock Clock Clock Image: Clock	Albumin	Biochemistry	plasma/serum	C1020	APC KEY	M	
Albumin, urine Biochemistry C1021 APC KEY	Albumin Creatinine Ratio	Biochemistry	plasma/serum			M	F
Advances Distantian James Province F	Albumin, urine	Biochemistry		C1021	APC KEY		F
	Aldestation	Pile of an inter-	at a second	C1022	ADD VEV		-

11. Click **I** 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.

Keyword	Times Used
Alc	
ABDOMEN	
ABGS	· · · · · · · · · · · · · · · · · · ·
Abnormal	
Abnormality	
ABO	
ABS	
Acetyl	
Acetyl ⊠ ⊲ ⊳ ⊠ ∠ ♦ — ∞ ⊠ Locate: Investigation∕⊼	
Acetyl KI KI P PI KI + - KI Locate: Investigation Haemoglobin A1c	
Acetyl <i +="" -="" <i="" locate:<br="" ½="" △="" ▷="" ✓="">Investigation ∕∑ Haemoglobin A1c</i>	
Acetyl	
Acetyl A I I I I I I I I I I I I I I I I I I I	
Acetyl ⊲ ⊲ ▷ ▷ △ ♦ ━ ∽ ⊠ Locate: Investigation⊼ Haemoglobin A1c	
Acetyl A I D D A 🛊 🗕 🛷 🐰 Locate: Investigation 🕢 Haemoglobin A1 c	
Acetyl A I R R A + - I K Locate: Investigation // Haemoglobin A1c	

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

6. Click 🔸

Keyword 7		Times Used
Heart		2
HEEL		1
Helicobacter		4
Hep 7. Type He	patitisscreen	2
Heparin and the	nen click 🜌	5
HEPATIC		2
Hepatitis		17
i d P 🕨 🛆 🔶 i Investigation	- 🛷 🛠 Locate:	
< > > > 	- 🧭 🛠 Locate:]
Investigation 8. Follow Steps 5-7 for each	ach suggested Keyword until each	has been added & then Save
Investigation 8. Follow Steps 5-7 for ea	ach suggested Keyword until each	has been added & then Save



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;

F	🐉 Investigation Keyword Maintenance	↔ _ □	×
Г	Keyword 🔀	Times Used	
	Heparin	5	
	HEPATIC	2	
	Hepatitis	17	
	HepatitisBclinicalreview 6 To add the investigations slick	8	
	HepatitisEfurthertests	3	
	Hepatitisscreen	5	
	Нерб	1	
	Heredetary	1	-
	K < ► ► △ (+) = ✓ X Locate:		
		-	Ê
Ŧ	Anti-HEC		
h	Anti-HB		•
-H	Anti-HCV		
- H	HBsAg		
Ľ			J
L			•
	Save 🔀 Cancel	🕜 <u>H</u> elp	
C	Clinical item types that use the selected keyword may be added or deleted here		

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

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

💤 Investigation Keyword Maintenance		×
I I I I I I I I I I I I I I I I I I I		
Keyword⊼	Times Used	
Hepatitisscreen	5	
НерВ	1	
Heredetary	1	
Herpes	3	
High	1	
HIP	2	
Histamine	1	
Histochemistry	1	-
Anti-HAV		
Anti-HBc		
Anti-HBs The complete Investigations list for		
Anti-HCV the keyward of hereitiesereen		
		_
8. Click Save		·
		•
Save X 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;





			Time	slised
				5 0 3 0 0
				5
				3
				2
_ _				.0
4. Click 📑 ,	type \$Hepatitis in hi	ighlighted section and	Save	2
	1			0
				1
pe⊼			Class	
	\			
	4. Click •	4. Click , type \$Hepatitis in hi	4. Click , type \$Hepatitis in highlighted section and	4. Click , type \$Hepatitis in highlighted section and Save

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

ATAY, BRIAN DEREK 33yrs Male (16/12/1981) Painent ID 16880	Clinical Record					
Image: Image: Scan Ohing: Biographics: Ohing: Scance: Ohing: Ohing: Scance: Ohing: Scance: Ohing: Scance: Ohing: Scance: Ohing: Scance: Scance: Scance: Scance: Scance: <th>A'KAY, BRIAN DEREK 33yrs Male (16/12/1981) Patient ID 16880</th> <th></th> <th></th> <th></th> <th></th> <th></th>	A'KAY, BRIAN DEREK 33yrs Male (16/12/1981) Patient ID 16880					
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Add New Edit Reference	Inical Item Prescription 🔂 Imaging Recall Letter 👷 Attachment	× Remove	m, Reports 🏠 ACIF	Claims _rs Tran	sport	
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Active Problem/Significant History Qualifier Value Date ate::::::::::::::::::::::::::::::::::::	🗘 Main Summary 🔯 Medication Summary 🏩 Social & Family History 📝 Care	Plan				
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BM 42.7 kg/m2 09/04/2015 BP - Systolic blood pressure 234 mm Hg 09/04/2015 BP - Disatiols blood pressure 234 mm Hg 09/04/2015 Disation 250 umol/L 24/03/2003 GRR 1641 blood weight) 72.1 mL/min 09/04/2015 HbA1c 7 % 09/04/2015 HbA1c 7 % 09/04/2015 HbA1c 7 % 09/04/2015 HbA1c 7 % 09/04/2015 Straking status Current rmc. 13/07/2015 Weight 234 kg 09/04/2015 Verget 234 kg 09/04/2015 Straking status Current rmc. 13/07/2015 Verget Restricted of the Straking status Current rmc. 13/07/2015 Meight 234 kg 09/04/2015 Strake if expositiments are missed Alexts and Other Information Meight 234 kg 09/04/2015 P Filter To Do List To Do To Do Date Mein Description 200/02/2025 Filter Strake Meight Mein Description 151 aduit health chee Vergets Adverse Reaction Strake Mein Description Mein Description <	1/07/2015 (moking Robacco)			ACR (Ab/Creat Ratio)	541 mg/mm	a 09/04/2015
Al tisk if appointments are missed Alests and Other Information All tisk if appointments are missed Alests and Other Information Preve Advesse Reaction Adverse Reaction Summary Nil Known verse Reaction Status Unknown No Documents Outstanding Investigation (s120/03/2004) No insurrisations recorded verse Reaction Status Unknown No Documents Outstanding Investigation (s120/03/2004) No insurrisations recorded				BMI BP - Systolic blood press BP - Distolic blood press Creatinine GFR (ideal body weight) HbA1c HbA1c (1) Smoking status Weight FRee To Do List Date Reen D	42.7 kg/m2 re 234 mm Hg re 234 mm Hg 250 ums/L 72.1 mL/min 7 mmol/mol 7 % Current smo. 234 kg To De Pescription mcChristeriol & Abovisma 8.	09/04/2015 09/04/2015 09/04/2015 24/03/2003 09/04/2015 09/04/2015 09/04/2015 09/04/2015 09/04/2015
Norse Reaction Status Unknown <u>No Documents</u> ok up Child health Enrolment Examination Group HACC Immunisation S1 Hepatite	At tisk if appointments are tweed Alerts and Other Information Alerts and Other Information New Adverse Reaction Adverse Reaction	۲,	lil Known			
ck up Child health Enrolment Examination Group HACC Instrumisation ST Hepatitis	dverse Reaction Status Unknown <u>No Documents</u>	Outstanding Inve	stastor(129/09/2004	No imparients	vis recorded	
	ark in Childheath Fredmant Francestine Group MACE Immunistration CT	Manadia				
The second s	rea up createant creater comerce comerciation stoup rouce instantation sto	riepana -				



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;

Keyword Maintenance		
	- V K Locate:	
Keyword 🔀		Times Used
SHepatitis		
\$Recall		
12		
18		
4. Locate the '	Hepatitis' Keyword and click to highlight	
24		
2nd		
36		
$\boxtimes \ \ \triangleleft \ \ \bowtie \ \bowtie \ \bowtie \ (\bigstar \)$	💳 🧭 🛠 Locate:	
Clinical Item Type		Class
5. Click	on 💽	
	Save	X Cancel
Clinical item types that use the sel	cted 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.

🐉 Clinical Term	s Browser			+ D×
Keyword Most E	ecently Used Topic Picture	Advanced		
Search-words:				
Keyword	Clinical Item Type		Class	Definition
		Gelect X1	Cancel Definiti	on Relp

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

T

T

eyword Most	ts Browser Bitentiu Used Topic Picture Advanced		
Search-words:	CONTACT TR		
eyword	Clinical Item Type	Class	Definition
ONTACT	Contact tracing;F	Procedure	
7.	Click on the required Clinical Item Type	e and Select	



Vermand	The set of the set
Keyword)	Times Used
sHepatitis	
\$Piecall	5
12	3
18	2
	0
24	2
2nd	U
36	
Clinical Item Type	Class
Contact tracing,F	Procedure
• Continue until each clinical item as per l	st on p. 16 has been

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



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					
Fibroscan 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
IV drug use	Dropdown list		Current Past States has never used Unknown					
Hepatitis B status	Dropdown list		Acute infection Chronic infection Immune due to vaccination Immune due to resolved infection Not immune and not infected					
Anti-HBs / date of test	Dropdown list with text box		Detected Not detected					✓ ✓
HAV status / date of test	Dropdown list with text box		Immune Non-immune Unknown					✓ ✓ —
HBsAg / date of test	Dropdown list with text box		Detected Not detected					✓ ✓
Anti-HBc / date of test	Dropdown list with text box		Detected Not detected					✓ ✓
HBeAg / date of test	Dropdown list with text box		Detected Not detected					✓ ✓
Anti-HBe / date of test	Dropdown list with text box		Detected Not detected					✓ ✓
HCV status / date of test	Dropdown list with text box		Ab positive, RNA negative Ab positive, RNA positive Negative Under treatment Unknown					✓ ✓ ✓ ✓
HDV status / date of test	Dropdown list with text box		Positive Negative Unknown					✓ ✓ —
Jaundice	Yes/No							
Clubbing	Yes/No							

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 🔸

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The Qualifier Type Properties window will open;

General Categories		
P Messure Enabled		
Qualifier Description	Summary	
Advice/education alcohol consumption	5. Enter name of qualifier	in
Export Code System Code	Qualifier Description	
Aboriginality Gender	7 I	
Value Type Diopdown list Currency	6. Choose the Value Typ	e of
	Dropdown list	
	Diopuoninist	
Definition of: Advice/education/alcohol consumption		
	7. Click 📩 to add the	
	7. Click to add the	s afte
	7. Click to add the Dropdown List Value	s afte
	7. Click to add the Dropdown List Value each value until all value	s afte s hav
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Dropdown List Values	Enable Additional Test Image: Additional Test Image: Additional Test	s afte s hav , p. 19
Dropdown List Values	Click to add the Dropdown List Value each value until all value been entered as per table	s afte s hav , p. 19
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9. To continue adding qualifiers click 📑

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10. When all qualifiers have been added click **Close**



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 Proper	ties				
				1	
Qualifier Description			Summary		
Anti-HBs / date of test					
Export Code		System Code	1		
Aboriginality		Gender	1	-	
Value Type Dropdown	r list 💌	Currency			
Definition of: Anti-HBs / da	ite of test				
				-	
					7
K A P R A	(*) - < >	(Additional Tex
Dropdown List Values 🕅	× ·	Enab. A	dditional Text		box of each
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	/				values
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/					
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		Save Ca	ancel 🔐	Help	
_ /	1				
Click 📑 following the	entry of each Dro	pdown List Va	lues until all v	alues 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.





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.





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.







CLINICAL ITEM NEW ITEM PROPERTIES;

1. Hepatitis Screen; Investigation Request

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable	e / Enabled
Hepatitis Screen; Investigation Request	Hepatitis Screen; Investigation Request	Procedure	Investigations	Common	×	~
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
\$HEPATITIS HBV HCV HEPB HEPATITIS LIVER	10	Hepatitis Sci	reen–Investigatio	n Request		

2. Hepatitis B

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable /	/ Enabled
Hepatitis B*	Hepatitis B	Condition	Digestive	Highly Sensitive Information	×	~
* This clinical item already exists within (Communicare but rec	quires modifie	cation. Follow Ste	ps 1–16 on p. 39	9–43.	
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
\$HEPATITIS	10	Classificatio	n			
HBV						
HEP						
НЕРВ						
HEPATITIS						
LIVER						

3. Hepatitis A immune

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable	e / Enabled
Hepatitis A immune	Hepatitis A immune	History	Digestive	Common	×	~
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
\$HEPATITIS HEP HEPA HEPATITIS LIVER	10	Hepatitis A	immune			

4. Hepatitis B immune

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallat	ole / Enabled
Hepatitis B immune	Hepatitis B immune	History	Digestive	Common	×	~
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
\$HEPATITIS	10	Hepatitis B i	mmune			
HBV						
HEP						
НЕРВ						
HEPATITIS						
LIVER						

5. Hepatitis B;clinical review tests

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable	/ Enabled
Hepatitis B;clinical review tests	Hepatitis B;clinical review tests	Condition	Digestive	Highly Sensitive Information	×	~
KEYWORDS & QUALIFIERS					` 	
Keywords	Order	Qualifier				
\$HEPATITIS	10	Hepatitis B-	-clinical review te	sts		
HBV						
HEP						
НЕРВ						
HEPATITIS						
LIVER						

6. Hepatitis C;further tests

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable / Er	nabled
Hepatitis C;further tests	Hepatitis C;further tests	Condition	Digestive	Highly Sensitive Information	×	~
KEYWORDS & QUALIFIERS		·				
Keywords	Order	Qualifier				
\$HEPATITIS	10	Hepatitis C–	further tests			
\$HEPATITIS HCV	10	Hepatitis C–	further tests			
\$HEPATITIS HCV HEP	10	Hepatitis C–	further tests			
\$HEPATITIS HCV HEP HEPC	10	Hepatitis C–	further tests			
\$HEPATITIS HCV HEP HEPC HEPATITIS	10	Hepatitis C–	further tests			



7. Review;chronic hepatitis B

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable /	/ Enabled
Review;chronic hepatitis B	Review;chronic hepatitis B	Procedure	Digestive	Highly Sensitive Information	~	~
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
ŚHEPATITIS	10	History				
ŚBecall	20	Current alco	hol consumption	n		
НЕР	30	Advice/edu	cation:alcohol.co			
HEPR	40	Smokina sta	atus	nsamption		
HBV	50	Advice/edu	cation:smoking c	essation		
HEPATITIS	60	Cannabis us	eaclon,sintening e	costation		
LIVER	70	Advice/edu	cation:cannabis u	ise		
	80	IV drug use				
	90	Advice/edu	cation:IV drug use	2		
	100	Physical Exa	mination	-		
	110	Jaundice				
	120	Clubbing				
	130	Palmar ervtl	nema			
	140	Ascites				
	150	Hepatomeo	ialv			
	160	Splenomea	alv			
	170	Oedma legs	5			
	180	Height				
	190	Weight				
	200	BMI				
	210	Previous Inv	estigation Result	S		
	220	HAV status /	date of test			
	230	HBeAg / da	te of test			
	240	Anti-HBe / c	late of test			
	250	HCV / date	of test			
	260	HDV / date	of test			
	270	HIV				
	280	Albumin				
	290	ALT (Alanine	e Aminotransfera:	se)		
	300	ALP (Alkalin	e Phosphatase)			
	310	Bilirubin	-			
	320	GGT (Gamm	na Glutamyl Trans	ferase)		
	330	<11	-			
	340	Date of last	abdominal ultras	ound		
	350	Abdominal	ultrasound result			
	360	Date of last	fibroscan			
	370	Fibroscan re	sult			
	380	Contact Tra	cing			
	390	Contacts ide	entified			
	400	- HBsAg & A	Anti-HBs levels			
	410	Provision of	infection control	advice		
	420	Further hea	Ith advice provide	ed		
	430	Summary				
	440	Phase of inf	ection			
	450	Liver specia	list referral			

31

C

 \bigcirc

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8. Hepatitis C

GENERAL						
Formal Terms	Natural Language	Class	Торіс	Viewing Right	Recallable /	Enabled
Hepatitis C*	Hepatitis C	Condition	Digestive	Highly Sensitive Information	×	~
* This clinical item already exists within C	ommunicare but req	uires modific	ation. Follow Step	os 1–16 on p. 39-	-43.	
KEYWORDS & QUALIFIERS						
Keywords	Order	Qualifier				
\$HEPATITIS	10	Hepatitis C i	nfection			
HCV						
HEP						
HEPC						
HEPATITIS						
LIVER						



9. Review;chronic hepatitis C

GENERAL					
Formal Terms	Natural Language	Class	Торіс	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 alco	phol consumptior	١	
HEP	30	Advice/edu	cation;alcohol coi	nsumption	
HEPC	40	Smoking st	atus		
HEPATITIS	50	Advice/edu	cation;smoking c	essation	
LIVER	60	Cannabis u	se		
HCV	70	Advice/edu	cation;cannabis u	se	
	80	IV drug use			
	90	Advice/edu	cation;IV drug use	2	
	100	Physical Exa	amination		
	110	Spider naev	/i		
	120	Jaundice			
	130	Encephalop	bathy		
	140	Palmar eryt	hema		
	150	Ascites			
	160	Hepatomeg	galy		
	170	Splenomeg	aly		
	180	Oedma leg	S		
	190	Height			
	200	Weight			
	210	BMI			
	220	Previous Inv	estigation Results	5	
	230	HAV status ,	/ date of test		
	240	Hepatitis B	status		
	250	HIV			
	260	Albumin			
	270	ALT (Alanin	e Aminotransferas	e)	
	280	ALP (Alkalir	e Phosphatase)		
	290	Bilirubin			
	300	GGT (Gamn	na Glutamyl Transl	ferase)	
	310	<11			
	320	Date of last	abdominal ultrase	ound	
	330	Abdominal	ultrasound result		
	340	Date of last	fibroscan		
	350	Fibroscan re	esult		
	360	Contact Tra	cing		
	370	Contacts id	entified		
	380	Provision of	infection control	advice	
	390	Further hea	Ith advice provide	ed	
	400	Summary			



CREATING THE CLINICAL ITEM

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

Follow Steps 1–13;





4. Click 📑

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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;



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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;

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

and A roat, Driver Deren Joyrs			
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The investigations are automatically selected as they are linked to the keyword entered in **Qualifier Type Properties** as per p. 26.

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MODIFYING AN EXISTING CLINICAL ITEM

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





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

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ADDING A RECALL TO THE ADD A MANUAL RECALL ICON

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





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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 💽

Enabled	Trigger Item Presented/Completed/	When=	Recall For =	
		On Registration	Check up;HU5K;Child Hx & Risk Assessment	
		On Registration	Check.up:HU5K;First Assessment	
		On Registration	Check up;child development	
~		On Registration	Review.immunisation.Bith	
		On Registration	Audiometry	
		On Registration	Check up:HU5K child health check 8 wks	
~		On Registration	Review.immunisation;2 month age	
		On Registration	Check up;ear health	
		On Registration	Check up:HU5K child health check 4 miths	
-		On Registration	Review.immunisation;4 month age	
		On Registration	Check up;HU5K child health check 6 mths	
~		On Registration	Check up;Aboriginal & TSI child	
~		On Registration	Review.immunisation.6 month age	
		On Registration	Check up;HU5K child health check 9 mths	
		On Registration	Check up;HU5K child health check 12 mths	
-		On Registration	Reviewimmunisation;12 month age	
		On Registration	Dental examination	
		On Registration	Check up;HU5K child health check 18 mths	

The Recall Type Properties window will open;



6. When you click on the ellipsis, the **Clinical Terms Browser** window will open. Search and select the



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.

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6. Click on the Enabled tick to untick	
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7. Click Save

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



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







