



Hepatitis C Virus (HCV) Clinical Tool Bundle supported by Gilead Sciences Canada, Inc.



YOUR GUIDE TO GETTING STARTED WITH THE HCV CLINICAL TOOL BUNDLE

At QHR Technologies, we understand the challenges that you face in terms of time management and increased costs. That's why we are introducing **Quality Improvement Initiatives** that offer specialized tools and support to help improve your workflows and patient outcomes.

The Hepatitis C Virus (HCV) Clinical Tool Bundle is supported by Gilead Sciences Canada, Inc.

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QUALITY IMPROVEMENT INITIATIVES

Welcome!

QHR Technologies strives to empower you with tools to make your workflows more efficient. Building and supporting specialized tools in the EMR require additional resources. QHR is aware that our users are sensitive to increased costs of the EMR and that patients and payers should not be burdened with these costs.

That's why we are working with third parties to support QHR in bringing specialized tools and making them available to our AccuroEMR users on an enrollment basis. Not only does this allow for efficiencies, but choice as well. You can choose to enroll or not and you can also opt out at any time. It's up to you to decide which tools are right for you and your patients.

This Onboarding Kit provides information about the Quality Improvement Initiative: **Hepatitis C Virus (HCV) Clinical Tool Bundle** supported by Gilead Sciences Canada, Inc. As a research-based biopharmaceutical company, Gilead Sciences Canada, Inc. specializes in developing innovative medicines in areas of unmet medical need, including HCV and liver disease.

The HCV Clinical Tool Bundle is designed to facilitate the identification and management of HCV patients. It will allow Primary Care Providers to more easily identify "at risk" patients through the utilization of risk criteria, patient screening flags and clinical forms within Accuro to help streamline the HCV diagnosis and referral process.

This Onboarding Kit is designed to provide both valuable education and practical training information to help you get the most out of the HCV Clinical Tool Bundle. Inside you will find an overview on HCV disease education, along with comprehensive information on how to use the tool set in AccuroEMR.

The Onboarding Kit is one of many resources designed to provide you with ongoing training and support. You will find information on additional materials that are available to help you navigate the HCV Clinical Tool Bundle and where to find them.

If you have any questions, please contact Accuro Client Services at 1.866.729.8889 for additional support.

WHAT IS THE HCV CLINICAL TOOL BUNDLE?

The **HCV Clinical Tool Bundle** is designed to help Primary Care Providers more easily screen and diagnose HCV patients and then refer them for specialized care. By enrolling and enabling the HCV Clinical Tool Bundle in AccuroEMR, you have access to the following:



Search queries to screen your patient database for critical HCV risk factors like liver disease, prior HCV-RNA test, age based populations and injection drug use



HCV Best Practice Workflows that guide you through how to screen, diagnose and refer patients



Active tasks to alert you to any follow-up HCV testing needed for patients



Configured forms and order sets for every step of the workflow that are pre-populated to save you time (e.g., pre-populated lab requisition form, HCV Risk Assessment Form)

The HCV Clinical Tool Bundle forms are available for preview before downloading.

HCV CONTENT EXPERTISE

The content for the HCV Clinical Tool Bundle content was validated by two of Canada's leading experts in Hepatitis C Virus management:



Dr. Alnoor Ramji, MD, FRCP Clinical Associate Professor of Medicine, Gastroenterology and Hepatology at the University of British Columbia



Dr. Hemant Shah, MD, MScCH, HPTE Clinic Director at Francis Family Liver Clinic, and Staff Hepatologist at the University Health Network

I DATA REPORTING & PRIVACY

By enrolling and enabling the HCV Clinical Tool Bundle in AccuroEMR, you have the option as part of your initial enrollment to report data to QHR about how you are using the tools.

This reporting will provide critical quantitative information to help us better understand the value of the HCV Clinical Tool Bundle in identifying HCV patients and improving patient outcomes in Canada. It will also help identify what's working and what's not, to ensure continuous optimization to best serve the needs of Primary Care Physicians like you.

As an added benefit, you will receive valuable **Reports** displaying aggregated and anonymized data on how you and your peers are using the HCV Clinical Tool Bundle across Canada. At a glance, you can view the progress of this national initiative.

The aggregated and anonymized data will be shared by QHR with third parties solely for the purpose of validating the efficacy of the tools. Please note that **no personal or identifiable provider or patient health information will be shared publicly.**

You can choose to opt out of the reporting function and still retain access to the tool set by visiting the Quality Improvement Initiatives page for the HCV Clinical Tool Bundle and de-selecting the option for reporting.



I TRAINING & SUPPORT

As part of your enrollment, you have access to a variety of resources to learn how to use the HCV Clinical Tool Bundle, including:

- **FAQ Sheet:** A useful PDF resource to help answer basic questions you may have about the HCV Clinical Tool Bundle. Written in question & answer format, it provides additional information in terms of how to use the software and where to go for assistance.
- **Webinar:** An interactive introduction to the HCV Clinical Tool Bundle delivered via a recorded WebEx session. The 1 hour webinar is a combination of HCV disease education delivered by Dr. Hemant Shah and a live demo of the software by QHR staff.
- **Training Videos:** Insightful training videos demonstrating HCV Clinical Tool Bundle workflow and processes are easily accessed online.
- 4 User Guide: Step-by-step instructions on how to enroll and enable the HCV Clinical Tool Bundle and configure Accuro. It provides detailed information on how to run search queries, follow the HCV Best Practice Workflow and access configured forms and order sets.

If you have any questions, please contact Accuro Client Services at 1.866.729.8889 for additional support.

ABOUT HEPATITIS C VIRUS (HCV)

I OVERVIEW^{1,2}

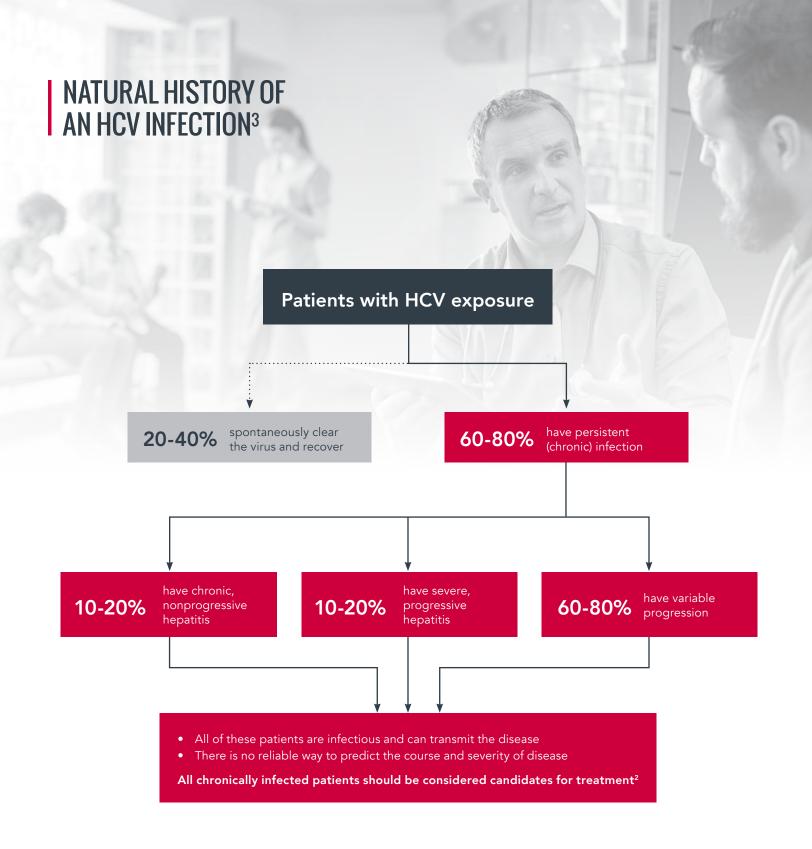
To help you get started with the HCV Clinical Tool Bundle, an overview of HCV is important to outline the clinical aspects of the disease.

The following pages provide key information on HCV, including its transmission, prevalence, natural history, disease burden, risk factors and clinical presentation.

- Hepatitis C is transmitted by blood-blood contact
- Most common routes of infection in Canada are:
 - Blood product transfusions: before 1992, when Canada instituted universal screening of blood products for HCV
 - Injection drug use: even a **single event** of injection drug use by someone in the 1970s to 1980s carries a risk of contracting HCV of up to 50%
- HCV is associated with significant morbidity and increased mortality risk
- Estimated prevalence in Canada: ~250,000 (approx. 1 in 100)
 - Majority of cases are patients born between 1945 and 1975 and their children
- HCV is classified by genotype (there are 6 genotypes); genotype 1 is the most common in Canada (~65% of cases)

NEW TREATMENTS CAN PERMANENTLY ERADICATE THE VIRUS (CURE)





Adapted from Myers RP, et al.² and Alter HJ, et al.³

I BURDEN OF DISEASE

HCV is a major contributing factor to hepatocellular carcinoma (HCC), the main subtype of liver cancer.

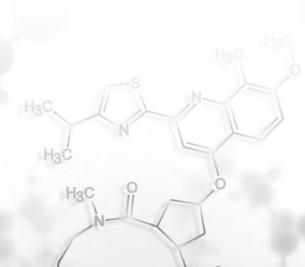
- Of the almost 250,000 Canadians infected with HCV, **nearly half** don't know it because symptoms are often asymptomatic^{4,5}
- Of those infected:⁶

60-70% will develop chronic liver disease

Up to 20% will develop cirrhosis

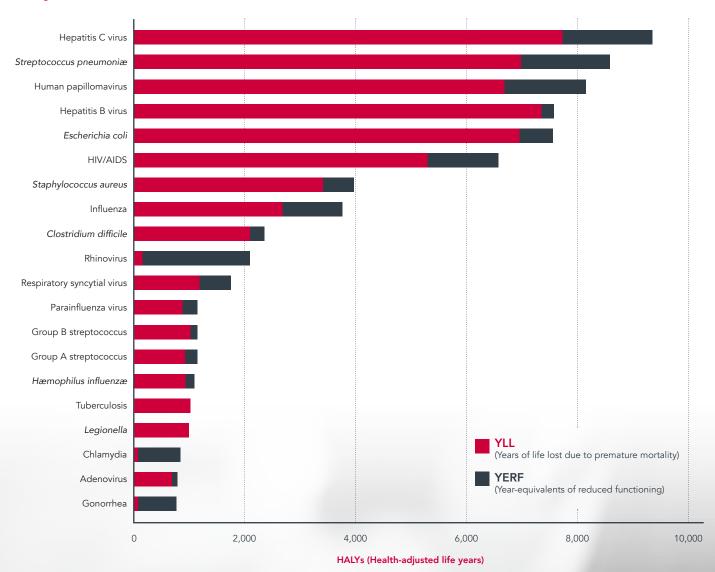
1-5% will die from liver cancer or cirrhosis

LIVER CANCER IS ONE OF THE FASTEST-RISING CANCERS IN CANADA 7



HCV IS THE MOST BURDENSOME OF ALL INFECTIONS: ECONOMIC AND HEALTH IMPACT

Agent/Disease Name



Adapted from the Ontario Agency for Health Promotion and Protection.8

I RISK FACTORS

The following factors are associated with a high risk of HCV:

HCV RISK FACTORS	PRIORITY GROUPS	OTHER
DEMOGRAPHIC	 Born between 1945 and 1975 Immigrant (excluding North America and Western Europe, except for Italy and Greece) 	 Children born to a mother who has HCV or has been treated for HCV Undiagnosed liver disease
EXPOSURE RISKS/LIFESTYLE	 Any history of injection drug use Received blood transfusions, blood products or organ transplant before 1992 in Canada High-risk sexual behaviour (e.g., men who have sex with men; anal intercourse) 	 Incarceration Needle-stick or sharp injuries Reuse/sharing of contaminated equipment in areas with high HCV prevalence Non-sterile contaminated tattooing or body-piercing equipment Sharing personal items contaminated with blood with an HCV-infected person Sharing contaminated intranasal cocaine equipment
COMORBIDITIES		HemodialysisHepatitis B virus infectionHIV infection

I CLINICAL PRESENTATION

Signs & symptoms are not usually helpful for identification of HCV^{9,10}

Reasons:

- Most patients with HCV infection (60% to 75%) are asymptomatic
- If a patient does exhibit symptoms, they may already have advanced liver disease
- Patients with HCV often have **normal liver enzymes** (e.g., ALT, AST testing)

THEREFORE, HCV-SPECIFIC SCREENING IS CRUCIAL

ALT=alanine transaminase; AST=aspartate transaminase.

I DIAGNOSIS

There are 2 key laboratory tests used for diagnosing HCV:11

1. Anti-HCV antibody

A positive test:

- Indicates exposure to HCV
- · Does not imply active infection
- Confirm status by testing for HCV RNA

2. HCV RNA

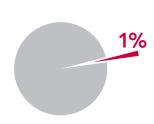
A positive test:

- Indicates presence of HCV infection
- If positive, request identification of genotype

Additional laboratory tests provide helpful supportive information (e.g., CBC, abdominal ultrasound to test for cirrhosis and exclude hepatocellular carcinoma).^{2,12}

I ROLE OF PRIMARY CARE PHYSICIAN

Primary Care Setting Has a Critical Role in HCV Care¹³



Prevalence of HCV infection¹³

× 2,000 PATIENTS



Average patient load for primary care clinician¹³

20 PATIENTS



Average primary care clinician has 20 patients with HCV infection in his/her practice¹⁴

Adapted from Chak E, et al. 12 and Ferrante JM, et al. 13



I REFERENCES

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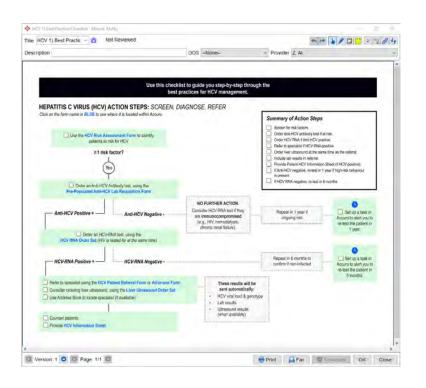
USING THE HCV CLINICAL TOOL BUNDLE

I HCV BEST PRACTICE CHECKLIST

Now that you have reviewed the Hepatitis C Virus disease education information and enabled the tool set in AccuroEMR, you are ready to get started with the HCV Clinical Tool Bundle.

Using the **HCV Best Practice Checklist**, you will be guided step-by-step through the best practices for HCV management and learn which tool to use at each step of the clinical process:

- Step 1: Screening
- Step 2: Diagnosis
- Step 3: Referral



The checklist will help you navigate through the HCV Clinical Tool Bundle and assist with proper use of the tools. At each step in the workflow, you will find helpful information on the forms and order sets – plus what to do next. You can also click on each form or order set name in blue to see where it is located in Accuro®EMR:

- 1. HCV Risk Assessment Form
- 2. Anti-HCV Lab Requisition Form
- 3. HCV RNA Set
- 4. Liver Ultrasound Order Set
- 5. HCV Patient Referral Form
- 6. HCV Information Sheet

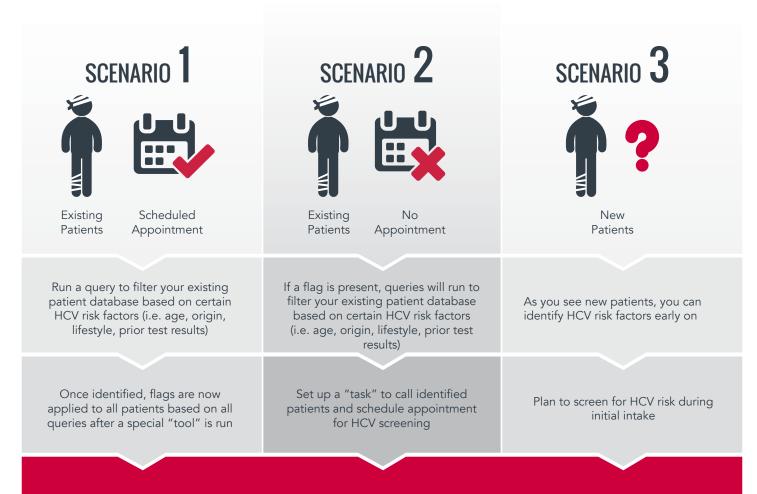
WHAT'S NEXT?
RUN AN HCV-RELATED SEARCH QUERY TO
IDENTIFY PATIENTS AT POTENTIAL RISK OF HCV

I SEARCH QUERIES

Search queries allow you to screen your patient database for certain risk factors and identify those patients who are potentially at risk for HCV and eligible for further risk assessment:

- 1. Critical HCV risk factors (signs of liver disease, a prior positive HCV-RNA test)
- 2. Additional HCV risk factors (e.g., born between 1945 and 1975, injection drug use)

There are 3 ways to maximize patient screening opportunities with both your new and existing patients:



During their appointment, complete the HCV Risk Assessment Form

WHAT'S NEXT? SCREEN PATIENTS FOR HCV RISK BY COMPLETING THE HCV RISK ASSESSMENT FORM

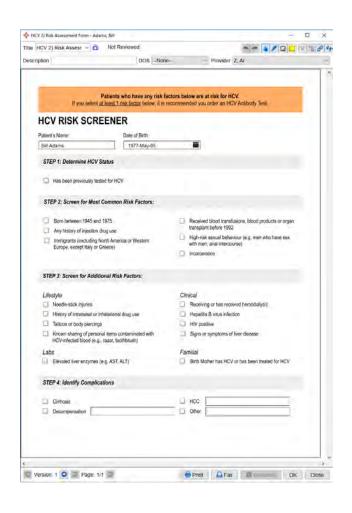
I HCV RISK ASSESSMENT FORM

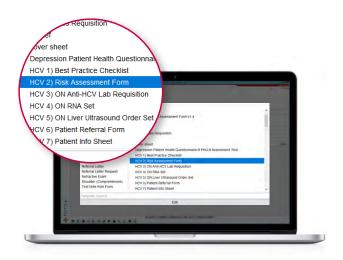
The HCV Risk Assessment Form helps to guide the initial HCV discussion with your patients and to determine whether or not they should be screened for HCV. The form provides you with a list of questions to help identify whether they are at risk of Hepatitis C Virus.

The form is divided into 4 parts:

- 1. Determine HCV status
- 2. Screen for Most Common Risk Factors
- 3. Screen for Additional Risk Factors
- 4. Identify Complications

If the patient answers "yes" to any risk factor listed, they are at risk for HCV. The recommendation is to proceed to the next step in the workflow and order an Anti-HCV Antibody Test.





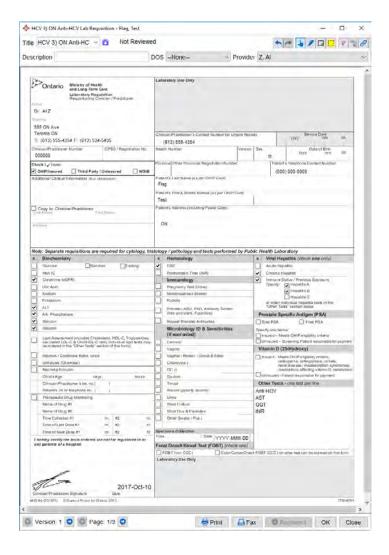
The HCV Risk Assessment Form is located in the electronic drawer within the Encounter Notes in AccuroEMR.

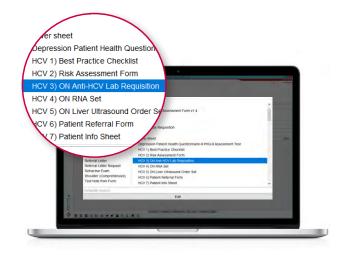
WHAT'S NEXT?

IF YES, ORDER AN ANTI-HCV ANTIBODY TEST USING THE PRE-POPULATED ANTI-HCV LAB REQUISITION FORM

ANTI-HCV LAB REQUISITION FORM

This is an example requisition. After enrolling in the HCV Clinical Tool Bundle, you will receive provincially specific forms.



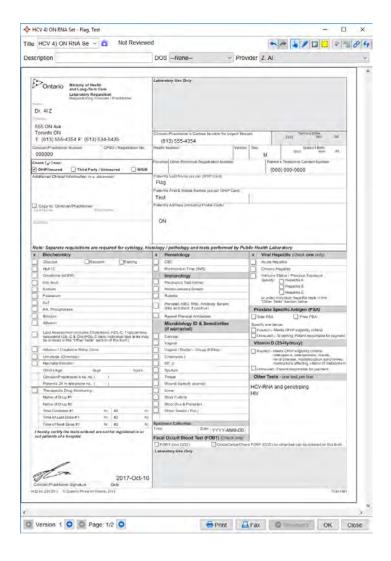


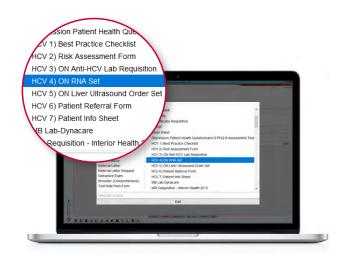
The Anti-HCV Lab Requisition Form is located in the electronic drawer within the Encounter Notes in AccuroEMR.

WHAT'S NEXT? IF THE PATIENT IS ANTI-HCV POSITIVE, ORDER AN HCV-RNA TEST USING THE HCV RNA SET

I HCV RNA SET

This is an example requisition. After enrolling in the HCV Clinical Tool Bundle, you will receive provincially specific forms.





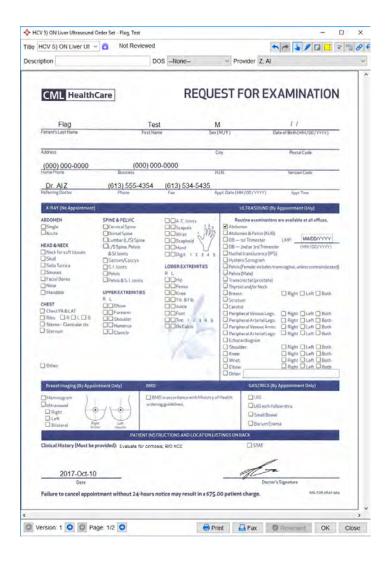
The HCV RNA Set is located in the electronic drawer within the Encounter Notes in AccuroEMR.

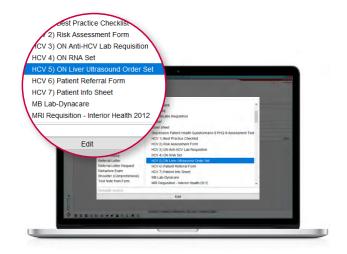
WHAT'S NEXT?

- CONSIDER ORDERING A LIVER ULTRASOUND USING THE LIVER ULTRASOUND ORDER SET
- 2. IF THE PATIENT IS HCV-RNA POSITIVE, REFER TO SPECIALIST USING THE **HCV PATIENT REFERRAL FORM**
- 3. PROVIDE **HCV INFORMATION SHEET** TO PATIENT AND COUNSEL

LIVER ULTRASOUND ORDER SET

This is an example requisition. After enrolling in the HCV Clinical Tool Bundle, you will receive provincially specific forms.





The Liver Ultrasound Order Set is located in the electronic drawer within the Encounter Notes in AccuroEMR.

I HCV PATIENT REFERRAL FORM

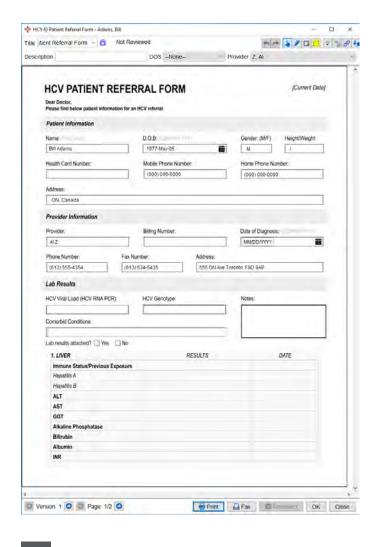
The HCV Patient Referral Form is designed to provide you with a turnkey tool to help streamline the HCV referral process.

It contains a comprehensive summary (all in 1 form) of the patient's relevant personal information and medical history that will be needed for referral to the HCV specialist (instead of sharing the entire medical file at the time of referral). It will also include relevant test results and a pre-edited reason for your referral.

The form is divided into 4 parts:

- 1. Patient Information: Populated automatically
- 2. Provider Information: Populated automatically
- 3. Lab Results: Populated once form is configured
- 4. Risk Factors: Must be entered or attached to fax

Once completed, the HCV Patient Referral Form can be faxed and saved to the patient's chart.





The HCV Patient Referral Form is located in the electronic drawer within the Encounter Notes in AccuroEMR.

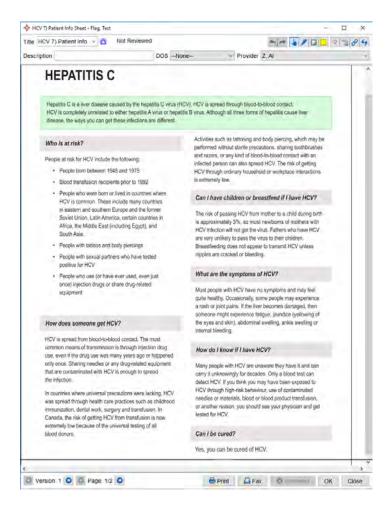
I HCV INFORMATION SHEET

The HCV Information Sheet is designed to help you address some common questions or concerns that your patients may have regarding HCV after testing positive.

The content has been adapted from the Canadian Liver Foundation and is written in easy to understand language using a question & answer format. The form (in PDF format) can easily be printed (in black & white or colour) for your patients to take home with them.

It includes the following:

- Who is at risk?
- How does someone get HCV?
- Can I have children or breastfeed if I have HCV?
- What are the symptoms of HCV?
- How do I know if I have HCV?
- Can I be cured?
- What are the treatment options?
- How do I live with HCV?
- Can I protect others?





The HCV Information Sheet is located in the electronic drawer within the Encounter Notes in AccuroEMR.

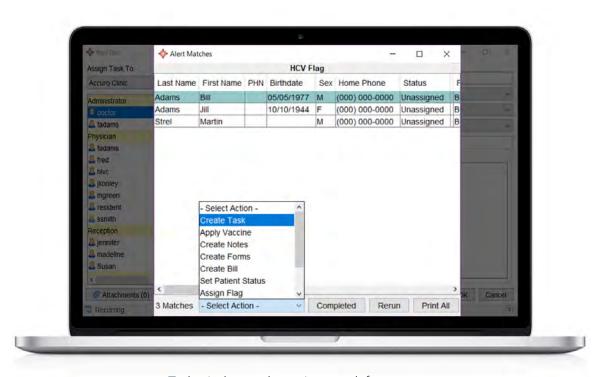
I SETTING UP TASKS/ALERTS

For any patients who have a flag of "Existing HCV/Liver Disease", it is recommended that a task be created. The purpose of this task is to call the patients and request that they come in for a HCV Risk Assessment (and potential HCV testing depending on results).

This can be done by either:

- Mass creating a task by running a query
- Creating a task per patient

For convenience, it is best to create a task name for easy searching and filtering.



Task window and creating a task from query

Note: This is a recommended workflow. Should the query search find a lot of patients under the "Existing HCV/Liver Disease" flag, the task may be omitted.

Please visit www.accuroemr.com/hcv-bundle for more information, including our User Guide.