

Creating Lab Order Sets in MedAccess

Presented August 2019 at Comox Valley MedAccess User Group

At the time this document was created, in the Vancouver Island region, electronic lab ordering had not been realized in private primary care practices, so for the purposes of this document universal lab order codes (developed to work in the HL7 electronic communication method) are not discussed. For more details on the current state of HL7 communication and full lab integration, please contact Doctors Technology Office (DTO) or visit their website at www.doctorsofbc.ca/technical-centre.

What are Lab Order Sets?

A Lab Order Set, also sometimes referred to as a Clinical Order Set, is a form of clinical decision support that allows a provider to order a specific set of laboratory tests at once, based on a group of particular assessment indications, rather than having to select each test one at a time.

How to Create a Lab Order Set

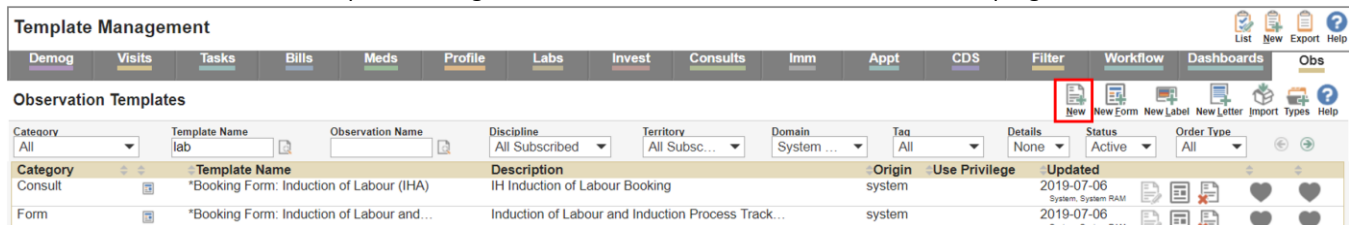
The foundation for any lab order set in MedAccess is your local lab requisition, mapped to be an Observation Template (aka: eForm, Mapped Form). You will need this completed mapped Observation Template to build on when creating your Lab Order Set.

Note: If you are *not comfortable* with creating mapped Observation Templates then you should have someone in your clinic who is comfortable with this create your Order Set for you. If you would like to develop the skills of someone in your clinic to get them to this comfort level, please connect with your local Practice Support Program Coordinator to inquire about Peer Mentoring. Alternatively, your EMR vendor can also support you in this (fees may apply, depending on your service contract).

1. Click on the Templates icon in the tool bar on the main screen of the EMR.



2. Click on the Obs Tab in the Template Management window and click the New icon in the top right-hand side of that section.




3. In the Copy field of the New Observation Template window, select the name of the existing mapped Observation Template for your local lab requisition (to search, type in a key word from the Template Title and then click the binoculars).
4. Once your previously-mapped form appears, you will need to rename it (the name of the form you copied and its description will default into the fields, so you will need to edit these), to indicate what the focus of your order set will be (i.e.: Local Lab Req – Prenatal). If you will be creating an order set that is only being used by yourself (not clinic-wide), it is best practice to use a naming convention that contains your initials (i.e.: AJ Local Lab Req – Prenatal).

5. Next, scroll down to the image of the form where data fields are super-imposed over it, and tick the boxes and/or add other tests in the text box for “Other Tests” you would like to include in your order set. If you would like to make the mapped form appear in a larger portion of the window, you can choose the Expand Overflow icon on the far left of the template editing tool bar.



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Remember, after each step, it's helpful to use the Save and Continue icon  in the bottom right-hand corner of the Template Management window to ensure the work you've done won't be lost as you progress.

Template Management

Preview Refresh Menu

238px

[Patient DOB] [M] [F] Pregnant? ☐ YES ☐ NO Fasting? ☐ h pc

TELEPHONE NUMBER OF PATIENT [Patient Full Phone] CHART NUMBER

ADDRESS OF PATIENT [Patient Street Address] CITY/TOWN [Patient City] PROVINCE [Patient Prov]

DIAGNOSIS CURRENT MEDICATIONS/DATE AND TIME OF LAST DOSE

HEMATOLOGY

☒ Hematology profile
☐ PT/INR ☐ On warfarin?
☐ Ferritin (query iron deficiency)
☐ HFE - Hemochromatosis (check ONE box only)
☐ Confirm diagnosis (ferritin first, \pm TS, \pm DNA testing)
☐ Sibling/bent is C282Y/C282Y homozygote (DNA testing)

URINE TESTS

☒ Urine culture - list current antibiotics
☐ Macroscopic \Rightarrow microscopic if dipstick positive
☐ Macroscopic \Rightarrow urine culture if dysuria or nitrite present
☐ Macroscopic (dipstick) ☐ Microscopic
☐ Special case (if ordered together)

CHEMISTRY

☐ Glucose - fasting (see reverse for patient instructions)
☐ GTT - gestational diabetes screen (50 g load, 1 hour post load)
☐ GTT - gestational diabetes confirmation (75 g load, fasting, 1 hour & 2 hour test)
☐ Hemoglobin A1c
☐ Albumin/creatinine ratio (ACR) - Urine

LIPOIDS

☐ one box only. For other lipid investigations, please order specific tests below and provide diagnosis:
☐ Baseline cardiovascular risk assessment or follow-up lipid profile, Total, HDL, non-HDL & LDL Cholesterol, Triglycerides, fasting
☐ Follow-up treated hypercholesterolemia (Total, HDL & non-HDL Cholesterol, fasting not required)
☐ Follow-up treated hypercholesterolemia (ApoB only, fasting not required)
☐ Self-pay lipid profile (from MSP billable, fasting)

HEPATITIS SEROLOGY

☐ Acute viral hepatitis undefined etiology
Hepatitis A (anti-HAV, IgM)
Hepatitis B (HBsAg, \pm anti-HBc)
Hepatitis C (anti-HCV)
☐ Chronic viral hepatitis undefined etiology
Hepatitis B (HBsAg, anti-HBc, anti-HBs)
Hepatitis C (anti-HCV)
☐ Investigation of hepatitis immune status
Hepatitis A (anti-HAV, total)
Hepatitis B (anti-HBs)
☐ Hepatitis markers(s)
HBsAg
If other hepatitis markers, please order specific test(s) below:
☒ HIV Serology
(patient has the legal right to choose not to have their name and address reported to public health - non-normal reporting)
☐ Non-normal reporting

THYROID FUNCTION

For other thyroid investigations, please order specific tests below and provide diagnosis:
☐ Monitor thyroid replacement therapy (TSH Only)
☒ Suspected Hypothyroidism (TSH first, \pm FT4)
☒ Suspected Hyperthyroidism (TSH first, \pm FT4, \pm FT3)

OTHER CHEMISTRY TESTS

☐ Sodium ☐ Creatinine / eGFR
☐ Potassium ☐ Calcium
☐ Albumin ☐ Creatinine kinase (CK)
☐ Alk phos ☐ PSA - Known or suspected prostate cancer (MSP billable)
☐ ALT ☐ PSA screening (self-pay)
☐ Bilirubin ☐ Pregnancy test
☐ GGT ☐ Serum ☐ Urine
☐ T Protein

OTHER TESTS

☐ Standing Orders ☐ FOG ☐ Fecal Occult Blood (Age 50 - 74 asymptomatic (q2y) Copy to Colon Screening Program)
☐ Include expiry & frequency ☐ Fecal Occult Blood (Other indications)

Blood ABO Group, RH factor antibodies, and antibody screen
Rubella titre, STS RPR

SIGNATURE OF PHYSICIAN DATE SIGNED Today


PHLEBOTOMIST TELEPHONE REQUEST RECEIVED BY: (employee/date/time)

INSTRUCTIONS TO PATIENTS (See reverse)
Other instructions:

The personal information collected on this form is collected under the authority of the *Personal Information Protection Act*. The personal information is used to provide medical services requested on this requisition. The information collected is used for quality assurance management and disclosed to healthcare practitioners involved in providing care or when required by law. Personal information is protected from unauthorized use and disclosure in accordance with the *Personal Information Protection Act* and when applicable the *Freedom of Information and Protection of Privacy Act* and may be used and disclosed only as provided by those Acts.

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INSTRUCTIONS TO PATIENTS (see reverse)

Save 

- When you are satisfied that all your lab order set instructions are included, and you are done editing, click the **Save** icon on the bottom, left-hand side of the Template Management window. This will save your template and close out the window, returning you to the main Template Management window where all existing template (and now your new one) are listed. From here you can navigate to your new template; it should default as your User Favourite (all templates you create will default to be your favourites). If everyone in your clinic would like it as a favourite, you can make it a clinic favourite from here as well.

Best practice when creating templates in MedAccess is to test them on a Test Patient chart, ensuring they appears and function as intended. To do so, open a Test Patient, and apply the template, ensuring all the fields appear and work as anticipated, and that its appearance when printing and/or eFaxing is acceptable (if applicable).