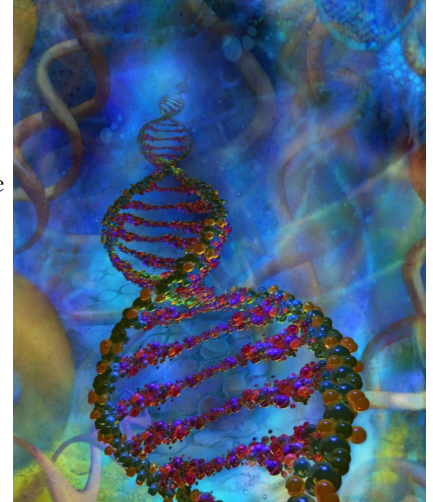


THE LAB REPORT

MARQUETTE GENERAL HEALTH SYSTEM REFERENCE LABORATORY

NEW MOLECULAR TESTING

We have expanded our molecular testing space, instrumentation, and testing menu over the last six months. We have added HIV, HBV, and HCV quantitation by real-time PCR. This new testing performed on the Roche COBAS Ampliprep/Taqman system will provide our clinicians with a lower limit of detection (LLOD) and a “not detected” result for viral loads as compared to the branch chain DNA methodology. The improved LLOD is extremely useful in disease management of patients. For example patients being treated with boceprevir or telaprevir where both drugs are indicated for the treatment of chronic hepatitis C genotype 1 infection, in combination with peginterferon alfa and ribavirin. Prescribing information indicates “a detectable but below limit of quantification HCV RNA result should not be considered equivalent to an undetectable HCV RNA result.” Telaprevir (INCIVEK) emphasizes “an undetectable HCV RNA result is required.” Therefore, results that are quantifiable or detected below the limit of quantification are “detectable” while “Not Detected” results are “undetectable” indicating treatment duration can be assessed. Real-time PCR results can provide this necessary information while BDNA cannot.



Much of our new molecular testing has been incorporated into our Microbiology section where many of our microbiology technologists currently perform a wide variety of molecular assays. Currently our staff is validating molecular assays for HSV 1 and 2, VZV, Factor V mutation, and

Factor II (Prothrombin) mutation. We look forward to providing you with updates on our progress in the near future. Our ability to offer these tests in house will decrease turnaround time, decrease send-out expenses, and improve patient outcomes with timely and accurate results.

We are also pleased to announce that we are collaborating with Northern Michigan University by sharing laboratory space on their campus for a student and research molecular facility. This molecular lab is located in our Cytogenetics department on the NMU campus.

JANUARY, 2012

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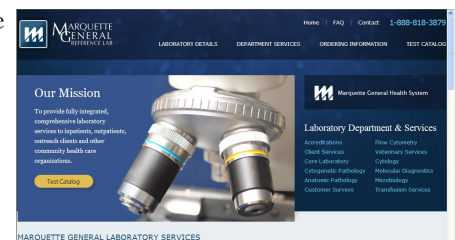
- * Molecular testing at MGH.
- * New Laboratory Website.
- * Leuko-Reduced Blood Products.
- * Testing Updates

WE HAVE A NEW WEBSITE!

Please visit us at www.mghlab.com to see our new laboratory website. It is our hope that you will find our new layout easier to navigate. As our customer, we welcome any suggestions you may have for improving our website. You may contact our Laboratory Program Director, John Rhoades, at any time with suggestions you may have.

Coming soon to our website:

- Archive editions of the Lab Report Newsletter
- Antibiogram Statistics
- Interactive supply request





The Lab Report is brought to you by :

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Testing Updates

- New test codes for the FOBT-CHEK test are :
IFOB - diagnostic
SFOB - screening
For collection supplies please contact MGHS Laboratory Client Services at 1-888-818-3879.
- Trichrome stain for parasites has been discontinued as an in-house test. All requests for trichrome stain including microsporidia will be sent out. Specimen type is PVA or Ecofix. We will continue to provide concentrated O&P examinations for which only a formalin specimen is required. PVA will now only be available on a limited basis, keep this in mind when ordering supplies.

FOBT-CHEK OC by Polymedco

Marquette General Health System is pleased to announce a new testing platform designed to improve the detection of fecal occult blood (FOB), and, at the same time, make the sample collection process for the patient much more convenient. No longer will patients have to adhere to inconvenient dietary and medicinal restrictions that upset their daily routines and often-times compromise patient collection compliance. With this new offering, the patient need only collect one sample as opposed to three or more with other screening methods such as Guaiaac.

Since the antigen used in the FOBT-CHEK immunoassay is specific to human hemoglobin false positives due to the patient’s ingestion of undercooked meats, such as beef and pork, will sharply decrease thereby providing a better indicator of the patient’s colorectal condition. Having fewer false positives will undoubtedly assure that more of the right patients are referred to colonoscopy.

The OC-Auto Micro 80 analyzer determines a result by optically measuring an agglutination reaction between a latex reagent and human hemoglobin within the sample. Since the OC-Auto Micro 80 analyzer measures the ensuing reaction there is no tech to tech subjectivity due to variations in color interpretation.

The MGHS laboratory is excited to make available to our medical community this new, cutting edge option in colorectal screening in an effort to enhance detection of disorders in their earliest stages. Our current FOB screening method, the Hemocult, will still be available.

If you have any questions or concerns, please feel free to call us at the MGHS main campus laboratory @ 906.225.3050.

ABOUT OUR BLOOD PRODUCTS

- Our Donor and Transfusion Service label all blood products according to ISBT (International Society of Blood Transfusion) standards. This labeling is required by the AABB (American Association of Blood Banks) and also must be approved by the FDA (Food And Drug Administration) prior to implementation. ISBT labeling allows for uniformity in the labeling of blood products worldwide, and also for the unique identification of every blood donation worldwide with no duplications.
- All of our red blood cell units are now leuko-reduced. Removal of leucocytes from various blood products has been shown to minimize Febrile nonhemolytic transfusion reactions, HLA alloimmunization, platelet refractoriness in multitransfused patients and prevention of transmission of leukotropic viruses such as EBV and CMV.
- Did you know we have a Bloodmobile? The Upper Peninsula Regional Blood Center Bloodmobile is an entirely self-contained mobile collections unit, with four reclining blood donor chairs and a private interview room. A retractable outdoor awning can be used to house registration tables for blood donors.

