TO: Medical Staff  
FROM: John DeVincenzo, M.D., Infectious Disease, Virology Laboratory, and Molecular Diagnostics Laboratory  
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DATE: 11/12/2012  
SUBJECT: Human Papillomavirus (HPV) PCR, Molecular Diagnostics test is now available

New HPV Molecular Testing:
The Methodist Le Bonheur Molecular Diagnostics Laboratory is continuing to develop and offer new assays to improve the care of patients. The new test available in the lab is Human Papillomavirus (HPV) PCR. This test detects DNA of the high-risk types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66 and 68. Human papillomavirus is the most common sexually transmitted infection in teenagers, and is the cause of vaginal warts. It is the principal cause of cervical cancer and its precursor cervical intraepithelial neoplasia (CIN). The presence of HPV has been implicated in greater than 99% of cervical cancers. There are more than 118 different types of HPV, and approximately 40 different HPV’s that can infect the human anogenital mucosa. However, only a subset of approximately 14 of these types is considered high-risk for the development of cervical cancer and its precursor lesions. The test is ordered as “HPV DNA by PCR”.

Other tests offered by our laboratory include:
- Atypical pneumonia panel (as a battery or as individual tests) (Chlamydia pneumoniae, Mycoplasma pneumoniae, Legionella pneumophila) on respiratory secretions
- Herpes Simplex Types I & II on CSF and Blood
- Bordetella pertussis from respiratory secretions
- Quantitative EBV on Blood
- Quantitative CMV on Blood
- Enterovirus on CSF
- Factor II (Prothrombin) mutation on Blood
- Factor V Leiden mutation on Blood.
- Influenza A/Influenza B & RSV RT-PCR from NP swab or wash
- Parainfluenza 1,2, and 3 RT-PCR from NP swab or wash
- Human Metopneumo (hMPV) RT-PCR from NP swab or wash
- Human Adenovirus (HAdV) PCR from NP swab or wash
- Quantitative Hepatitis C Virus on Plasma
- Quantitative Hepatitis B Virus on Plasma
- Quantitative BK on Urine & Plasma
- Streptococcus pneumoniae from spinal fluid and pleural fluid
- Clostridium difficile PCR on liquid stool

These tests must be ordered in Cerner and will be available to all patients at Methodist Le Bonheur Hospitals.

Other Issues:
Respiratory Virus Panel: During the winter season, the assays will be run daily on M-F. If the specimen is received in our Molecular Diagnostics Laboratory by 10:00 am it will be resulted in Cerner the same afternoon. In Cerner, the tests can be ordered grouped together as “Respiratory Virus Panel PCR” which will include RSV, Influenza A/B, Human Metapneumo (hMPV) and Para Influenza (HPIV) 1,2, and 3 and HAdV.

Thank you for your continued support of the Molecular Diagnostics Laboratory. We are continually making important improvements in the laboratory and developing new assays. Contact John DeVincenzo, MD or Anami Patel, Ph.D. at 287-6069 with questions, suggestions, or if help is needed with interpretation of molecular results.

Thank you.