

### SUMMARY

Choose **PCRABR** (Flu/RSV) for outpatients.

Do not order PCRABR on inpatients.

USE **RVPCR** (full respiratory panel) for inpatients or immune-compromised and other at risk outpatients.

Please refer to the peak season algorithm on page 2.

If you have any questions about respiratory pathogen testing, please contact Microbiology Technical Specialists, Lisa Scicchitano, B.S., MT(ASCP) at 570-214-4294, Francis Tomashefski, B.S., MT(ASCP) at 570-271-6185, or Doctoral Directors, Dr. Donna Wolk, MHA, Ph.D, D(ABMM), System Director, Clinical Microbiology at 570-271-7467 or Dr. Raquel Martinez, Ph.D, Director, Clinical Microbiology at 570-271-6338.

For newsletter questions, contact Christy Attinger at (570) 271-6338.

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#### 10X Essentials:

##### Respiratory Pathogens Detected by PCR

Effective November 1, 2014, the GMC Microbiology laboratory will offer/perform the following testing scheme for respiratory pathogen detection by Polymerase Chain Reaction (PCR):



##### Test code PCRABR (FLU A/B and RSV PCR), recommended for outpatients

**PCRABR is available November 1 – April 30**

**Performed only at GMC laboratory**

Includes rapid antigen testing for RSV on patients <6 yrs (November 1 – April 30).

*NOTE: GBH does not perform rapid RSV testing.*

*If the rapid RSV results are positive, no further testing is routinely performed.*

*If the rapid RSV results are negative, PCR testing for influenza A, influenza B and RSV is performed.*

##### Test code RVPCR (Respiratory PCR), for inpatients and the immunocompromised

**RVPCR is available year round**

**Performed at GMC, GBH, GCMC and GWV laboratories**

Includes rapid antigen testing for RSV on patients <6 yrs (November 1 – April 30).

*NOTE: GBH does not perform rapid RSV testing.*

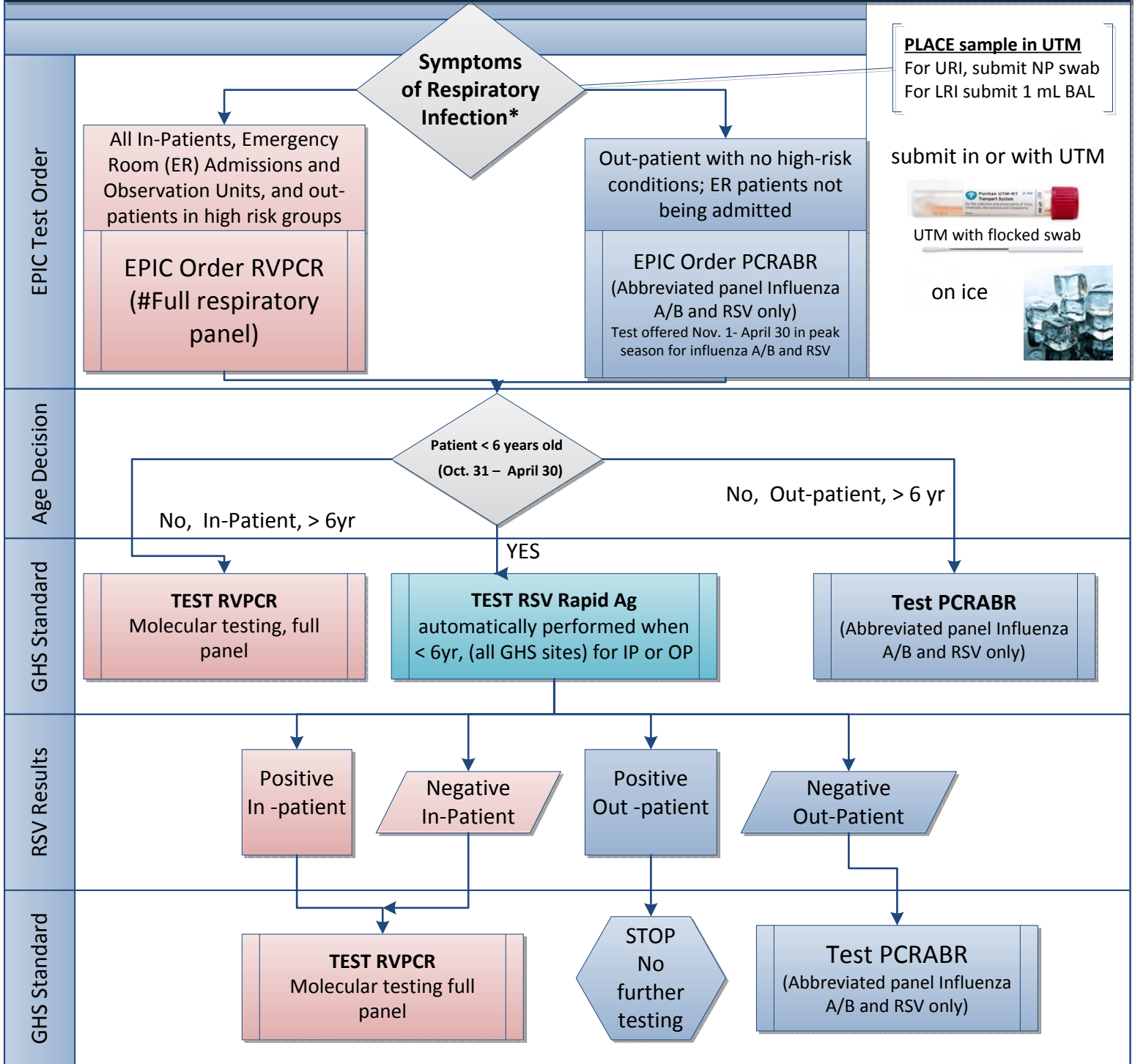
*If the rapid RSV results are positive on an outpatient, no further testing is routinely performed.*

*If the rapid RSV results are positive on an inpatient or negative for all patients, PCR testing for the following respiratory pathogens is performed: adenovirus, coronaviruses: 229E, HKU1, NL63, and OC43, rhinovirus, human metapneumovirus, influenza A (subtypes H1, 2009 H1, and H3), influenza B, parainfluenza virus types 1-4, RSV, Bordetella pertussis, Chlamydomphila pneumoniae, and Mycoplasma pneumoniae.*

**NOTE: Do not order RVPCR and PCRABR on the same specimen.**

**See Respiratory Testing Algorithm on next page.**

**2014-2015 Approved Respiratory Pathogen Testing Algorithm**  
**Geisinger Medical Laboratories, Danville, PA**



**TEST = RVPCR**

Molecular testing full panel: adenovirus; coronaviruses 229E, HKU1, NL63, and OC43; rhinovirus; human metapneumovirus; influenza A (subtypes H1, 2009 H1, and H3); influenza B; parainfluenza virus types 1-4; RSV; *Bordetella pertussis*; *Chlamydomphila pneumoniae*; and *Mycoplasma pneumonia* (at GMC, GWV, coming soon to GCMC; GBH and GSACH sent to GMC)

**TEST = PCRABR**

Molecular testing abbreviated panel: influenza A influenza B, RSV (performed at GMC for all sites)

**Abbreviations**

URI = upper respiratory infection  
 LRI = lower respiratory tract infection  
 UTM = universal transport media w/ flocked swab  
 NP = nasopharyngeal  
 BAL= brochoalveolar lavage  
 RSV = respiratory syncytial virus  
 ED = Emergency Department

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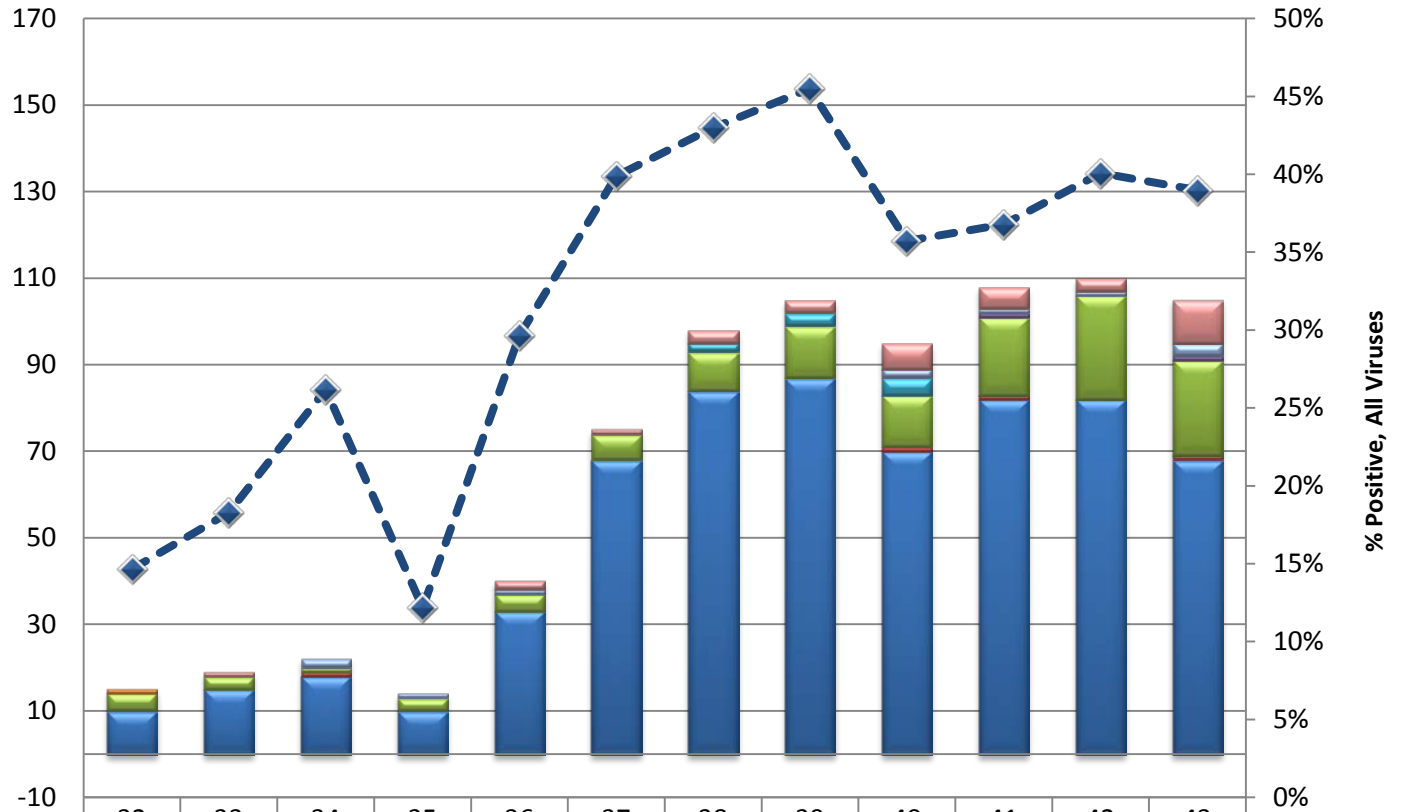
\*Note: Exceptions to algorithm can occur with laboratory waiver, e.g., patients in high risk groups  
 \*May 1- Oct 31: rare chance of detecting influenza/ RSV; for diagnostic purposes, the full molecular panel is standard.  
 Resp Flow diag Nov thru Apr.vsd

dmwolk, rmmartinez: 12/30/2013, rev 2/5/14,  
 rev 10/15/14

Weekly GML RespVIEW: CDC Week 43, 2013-2014

**GML RespVIEW  
2013-2014**

# Respiratory Viruses



CDC Respiratory Week, 2013-2014	32	33	34	35	36	37	38	39	40	41	42	43
adenovirus	0	1	0	0	2	1	3	3	6	5	3	10
coronavirus	0	0	2	1	1	0	0	0	2	1	1	3
hum.metapneumovirus	1	0	0	0	0	0	0	0	0	0	0	0
influenza A	0	0	0	0	0	0	2	3	4	0	0	0
influenza B	0	0	0	0	0	0	0	0	0	1	0	1
parainfluenza	4	3	1	3	4	6	9	12	12	18	24	22
respiratory syncytial virus	0	0	1	0	0	0	0	0	1	1	0	1
rhinovirus	10	15	18	10	33	68	84	87	70	82	82	68
◆ % Positive Rollup (right axis)	15%	18%	26%	12%	30%	40%	43%	45%	36%	37%	40%	39%