

## Beaumont Laboratory

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# Laboratory Bulletin

### Removal of pO<sub>2</sub> and FiO<sub>2</sub> from Venous Blood Gases

Effective Date: January 5, 2016

Venous blood gases are measured to evaluate acid-base status. Recent clinical guidelines indicate that pO<sub>2</sub> measurements on venous blood samples can be misleading or misinterpreted in certain clinical situations. In consultation with pulmonologists and respiratory therapy at Grosse Pointe, Royal Oak, and Troy Hospitals, **Beaumont Laboratories will no longer report pO<sub>2</sub> or other O<sub>2</sub>-derived respiratory components with Venous Blood Gases (VBG).**

- FiO<sub>2</sub> (fraction of inspired oxygen) will no longer be required at order entry in Epic to order venous blood gases. The order will now immediately interface to Soft without the two-step documentation process.
- Arterial, capillary, cord, or mixed venous blood gas testing requirements and reported parameters will not change.
- Sample collection requirements for venous blood gases as described in the Laboratory Test Directory will not change.

Venous whole blood may be collected via intravenous catheter or by venipuncture via winged infusion (“butterfly”) set. Specimen should be drawn from a free-flowing venous access without a tourniquet in place. Slowly draw back on the safePico syringe plunger to avoid hemolysis and introduction of air.

#### Reference:

National Guideline Clearinghouse (NGC). Guideline summary: AARC clinical practice guideline: blood gas analysis and hemoximetry: 2013. In: National Guideline Clearinghouse (NGC) [Web site]. Rockville (MD): Agency for Healthcare Research and Quality (AHRQ); [cited 2015 Dec 10]. Available: <http://www.guideline.gov>.

If you have questions, please contact Client Services (1-800-551-0488, option 5).

Internal URL to Laboratory Bulletins:

[http://employee.beaumont.edu/portal/pls/portal/ip30dev.page\\_pkg.page?xid=lab\\_bulletins](http://employee.beaumont.edu/portal/pls/portal/ip30dev.page_pkg.page?xid=lab_bulletins)

External URL to Laboratory Bulletins:

<http://beaumontlaboratory.com/hospitals-laboratories-three/test-information-center/laboratory-bulletins/>

Laboratory Test Directory: <http://beaumontlaboratory.com/test-lab-directory>.

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