



OSPITAL NG PARANAQUE



Document Code: OSPAR-ADS-RTS-0002

ANCILLARY DIVISION APPROVAL MATRIX

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Policy Title:
POLICY ON ARTERIAL BLOOD GAS ANALYSIS (ABG)

Section / Department
PULMONARY SECTION

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ARTERIAL BLOOD GAS ANALYSIS (ABG)

I. STATEMENT OF THE POLICY

The policy on receiving requests and the collection of arterial blood gas shall serve as a guide to all Respiratory Therapist and other health care workers in the proper performance of the procedure.

II. POLICY GUIDELINES

1. Physician's order must be written before extracting arterial blood.
2. The Respiratory Therapist must verify that arterial blood gas is requested in iHomis. Strictly NO iHomis, NO extraction.
3. Only trained and qualified staffs are allowed to perform arterial blood gas extractions.
4. Universal precaution shall be strictly observed and practiced when collecting blood specimen.
5. Patient's physiologic status and oxygenation shall be obtained and recorded on the request form before arterial sampling.
6. Anticoagulants must be used (0.5 ml of 1000units per 3cc of blood) to avoid introducing blood clots to the analyzer.
7. Arterial punctures shall be done preferably in the radial or brachial artery.
8. In case of unsuccessful blood gas extraction (two attempts) the Nurse on duty must be informed and must have the patient referred to the Resident on Duty.
9. Arterial blood gas samples for analysis shall be properly labelled and analysis shall be done immediately after being extracted.
10. Quality control shall be conducted every after opening a box of cartridges for levels 1, 2 and 3 as advised by Edan product specialist.
11. Arterial blood gas specimens from other hospitals must meet the requirements for proper transport and shall be analyzed immediately.
 - Specimen must be heparinised to prevent blood clots.
 - Specimen must be transported within 30min to 45min post extraction to prevent metabolization and to maintain the accuracy of the blood gas results.

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- Specimen must be properly stored in an ice box, preferably with slushed ice to completely submerge the specimen in ice for an effective delay of metabolism.
 - The Respiratory Therapy on duty reserves all rights to refuse a specimen if it does not meet the standards stated above.
12. All blood gas specimens that have been analyzed shall be properly and safely disposed.
 13. Clotted specimen should be rejected for analysis and must be advised to repeat the collection of blood sample.
 14. Blood gas analysis results shall be logged into the logbook provided and must be charged and encoded in iHomis accordingly.

III. MAINTENANCE AND STORAGE OF ABG ANALYZER

1. Thermal Printer
 - The correct size of thermal paper must be installed properly on the ABG analyzer
2. Test Cartridge
 - Should be in room temperature upon usage. The Respiratory Therapist must always check the cartridge's expiration date before analyzation.
 - Cartridges must be used immediately after opening the pouch.
 - Test cartridges should be stored at 4 - 30°C, and should be used at 10 - 31°C
3. Calibrant fluid pack
 - A calibrant fluid pack containing calibrant solutions is intended to be used together with the analyzer to perform one-point sensor calibration. It has 100 sampling operations.
 - Calibrant fluid packs should be stored at 2 - 8°C (to avoid freezing) and should be used while at 10 - 31°C.