Building the network management of POCT of blood gas analysis

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Point of care testing (POCT) is a detecting technique which is used for getting rapid results near patients. It is could be reduced the turn-around-time (TAT) of some results, studies have clarified POCT use was associated with reduced patient mortality and high cost, so POCT use is widespread in clinical settings and it is increasingly important in patient management. Although the TAT is reduced, it is difficult to control the quality because non-professional laboratory technician done the operation in most cases. Aims to meeting the requirements of hospital level evaluation and laboratory accreditation, we built a network management of blood gas analysis system. We established POCT management team, manage all 23 blood gas analyzers through a platform (IT1000) which integrate the hospital information system and laboratory information system. The POCT management team include hospital manager, clinical unite manager and nurses, laboratory manager and technicians, it is shown in figure 1. Though the network management, (1) all 23 blood gas analyzers are form the same manufacture, all analyzers are integrated in hospital and laboratory information system, through the IT1000, we could manage the results and materials, (2) daily quality control and EQA cover all analyzers, we could intercept patient’s inspection results when the quality controls are out of range, (3) all patient’s results are retained in hospital information system, thermal paper cost reduced. In a word, the network management of POCT of blood gas analysis implement standardized quality management of all blood gas analyzers.