Objectives: To evaluate quality control of NT measurement in the 2nd largest maternal hospital in Ho Chi Minh city, Vietnam in 2011 to 2016.

Methods: A retrospective study of records of NT measurements (n=92297) was collected from 2011 to 2016. The performance of each operator was analyzed with regard to quality standards proposed by the Fetal Medicine Foundation (FMF) and the Woman & Infants Hospital of Rhode Island (WIHRI).

Results: Over ninety thousand NT measurements obtained by twenty-five operators were eligible for analysis. In assessment of operator-specific NT distributions nine of twenty-five (36%) (in which seven are junior doctor) did not meet due to underestimate the FMF criteria. Fourteen of them (56%) (in which eleven are junior doctor) did not fulfill the WIHRI criteria with the median of NT median of multiples (NT – MoM) fall below 0.9. Overall, in analysis of all the operators the mean median NT-MoM values of 0.87 which was lower than expected and would interfere with double test performance.

Conclusion: A strict monitoring of NT measurement needs to be applied to improve the accuracy of measurements in all operators.