Objectives
The purpose of this study is to evaluate the repeatability of real-time shear wave elastography in measuring the elastic modulus of puborectal muscle.

Methods
24 cases of female patients were examined by perineal ultrasound in our hospital. The young’s modulus (KPa) was displayed by shear wave elastography and its average values were taken. When repeated measurements, we tried to get the same plane, size and location of ROI. IBM SPSS Statistics 20 software was used for statistical analysis, and the measurement data were expressed by mean value standard deviation. Repeatability was expressed by intragroup correlation coefficient (ICC) and 95% confidence interval (CI).

Results
The repeatability of the young’s modulus of the puborectal muscle in overall observer measured by SWE was very good (ICC= 0.786, 95% CI= 0.667 ~ 0.879). The internal repeatability of the puborectal muscle attachment to inferior pubic ramus (ICC = 0.836, 95% CI=0.621~0.934) was better than the internal repeatability of the middle part of the lateral puborectal muscle (ICC=0.740, 95% CI= 0.540 ~0.899).

Conclusion
In this paper, the internal repeatability of the SWE technique in the resting state to determine the young’s modulus of the puborectal muscle was studied, and the results showed that the repeatability was good. In the group divided according to location, this paper showed that the repeatability of the puborectal muscle attachment to inferior pubic ramus was better than the repeatability of the middle part of the lateral puborectal muscle.