We have already introduced that $^{201}$Tl-chloride was very usefulness for various uterine tumor. We presented in this time that $^{201}$Tl-C1 for uterus was evaluated on limitation of these tumor size after surgery, comparative study in the pathologic result and incorporation mechanism by RI mini-computer system.

Patient including 43 of myoma and 42 of malignant tumor were intravenously injected 2 mCi of $^{201}$Tl-C1 using $\gamma$-camera covering high resolution collimator on lined RI mini-computer (Shimazu scinti-pac 1200).

As these results, $^{201}$Tl-C1 scan for uterine tumor was very suitable and ideal technique with almost absoluted accuracy if over 5 cm of the size of lesion. In the pathological result, adenomyosis and adenocarcinoma as growing adrenal tissue were delineated found out. The mechanism of the incorporated uterus of $^{201}$Tl was probably caused by K+ analogy because it was the positive result by $^{201}$Tl but false negative result by $^{99m}$Tc-HSA to the lesion introducing the functional image analyzed RI mini-computer system.

We convinced that $^{201}$Tl scan for uterine tumor was very suitable agent and safety external method.