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PAPER TITLE The Radiation Dose Survey before and after the Shielding
Improvement of the X-ray Tube Used for ERCP and Angiocardiography

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ABSTRACT (See instructions overleaf)

The Endoscopic Retrograde Cholangiopancreatography (ERCP) and Angiocardiography are standard medical diagnosis methods in these days. The commercial X-ray tube and accessories for those operations comes with typical radiation shielding for the operators i.e. doctors and nurses. This paper will present results of the survey of the operators radiation dose during the whole operation. The results shown that the hands of the doctor was completely exposure to the X-ray without any shielding while he was adjusting the table which the patient was laid upon. According to the results, we suggested some extra shielding could be added. The corresponding results after the shielding was added will be presented and discussed. We also suggested some operation procedure which could reduce some radiation dose. It will be discussed in this paper too.