Radiation Doses Exposure in Permanent Pacemaker and Coronary Angiography Procedure in Pasar Rebo General Hospital

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**Introduction**: Permanent Pacemaker (PPM) and Coronary Angiography (CAG) are a procedure that can risk an excessive radiation exposure to a patient. This study aimed to determine the patient radiation doses during PPM and CAG procedure with Dose Area Product (DAP) by measuring the mean DAP and fluoroscopy times. Though PPM and CAG are a routine procedure in Indonesia and other countries, reports about this study are still limited.

**Methods**: DAP measured in 227 patients (10 in PPM group and 217 in CAG group) who underwent PPM or CAG and fluoroscopy times were recorded by a cardiologist in Pasar Rebo General Hospital.

**Result**: Mean DAP was 92.56±52.34 in PPM group and was 342.79±234.56 in CAG group. Mean fluoroscopy times was 436.4±263.6 in PPM group and was 209.53±220.66 in CAG group.

**Conclusion**: The radiation dose of this study is identical but slightly lower than the previous reports.