

Thesis Title            Chromosome Study on Spontaneous Abortions in  
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#### ABSTRACT

Chromosomal abnormalities are the important cause of spontaneous abortions. A total of 156 unselected spontaneous abortuses obtained from Ramathibodi Hospital were set up in culture for cytogenetic study. The sources of aborted materials were fetal organ, cord, amnion, chorionic villi and other fetal membrane. One hundred and four abortuses were successfully karyotyped with mean culture time of  $23.72 \pm 10.44$  days. The mean gestational age and mean maternal age were  $11.22 \pm 3.18$  weeks and  $30.0 \pm 5.7$  years respectively. Chromosomal abnormalities were detected in 29 cases (27.9%) with 20 cases (69%) of autosomal trisomy, 5 cases (17.2%) of sex chromosome monosomy (45, X), 2 cases (6.9%) of tetraploidy, and 2 cases (6.9%) of mosaic tetraploidy. About 82.8% of them were in first trimester and the remaining 17.2% was in second trimester. The overall sex ratio was 0.86.