

# 学位論文審査結果の要旨

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(学位論文審査結果の要旨)

The increase in the rate of maternal deaths related to cardiovascular disease in Japan from 1991-1992 to 2010-2012

【主論文審査結果の要旨】

著者らは論文において下記の内容を述べている。

**Background :** Cardiovascular diseases (CVD), both genetic and acquired, increase the risk of maternal death (MD) unless proper genetic/clinical counseling is provided and a multidisciplinary approach is adopted during pregnancy. In recent decades, there has been a significant increase in the number of women with CVD of child-bearing age and in the incidence of pregnancy among relatively older women. However, the impact of this phenomenon on MD has not been carefully investigated.

**Methods :** This retrospective study compares the incidence and etiology of maternal deaths related to cardiovascular disease (MD-CVD) in Japan in 2010-2012 to that seen in 1991-1992.

**Results :** Seven cases of MD-CVD were reported in 1991-1992, compared to 15 in 2010-2012. In 2010-2012, the causes included aortic dissection (n = 5), peripartum cardiomyopathy (n = 3), sudden adult/arrhythmic death syndrome (n = 2), acute cardiomyopathy (n = 2), pulmonary hypertension (n = 2), and myocardial infarction (n = 1), and four of these causes were not encountered in 1991-1992. The incidence of MD over the total number of pregnancies decreased from 9.4 per 100,000 cases in 1990-1992 to 4.6 per 100,000 cases in 2010-2012 (p < 0.05). However, the incidence of MD-CVD over the number of cases of MD increased from 2.9% in 1991-1992 to 9.7% in 2010-2012 (p < 0.05).

**Conclusions :** The present study demonstrates that the rate of MD-CVD among the cases of MD has increased 3-fold in Japan over the past 20 years. Thus, it is of critical importance to

better understand the etiologies and early signs of MD-CVD and to devise an effective management program for pregnancies complicated by CVD.

日本における心血管疾患に関連した妊産婦死亡の死亡原因について、初めて明らかにした論文であり、心血管疾患に関連した妊産婦死亡の減少目指す上で、学術上極めて有益であり、学位論文として価値あるものと認めた。

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