Session: 3. Electro magnetic fields and health

MEASUREMENTS OF OCCUPATIONAL EXPOSURE TO EMF EMITTED BY HIGH-SPEED MAGLEV TRANSPORTATION SYSTEM AND ITS HEALTH EFFECTS

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Abstracts

The symptoms of drowsiness, memory impairment, irritability, alopecia were related to occupational exposure to maglev EMF. Abnormal rate of cholesterol and high density lipid protein in exposed group were significantly higher than control. The blood cell counts, thyroid function, and serum melatonin level had no statistical difference between two groups.

Conclusions EMF emitted by High-speed Maglev transportation system in different frequencies were lower than the exposure limits of current international and Chinese national standard.

Due to the population limits, we can not draw a conclusion that occupational exposure to Maglev EMF may have adverse health effects from the previous data. However, it may give us a clue that occupational exposure to maglev EMF may result in the alteration of neuronal function and lipid metabolism.