

## **Abstract EFAS/DGA 2007**

### **Effects of chronic railway noise exposure on children anxiety levels and emotion responses**

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**Background:** Children are vulnerable to the effects of chronic railway noise exposure and also they are in a high-risk group. The aim of the study was to explore effects of chronic railway noise exposure on children's trait-state anxiety and emotion responses.

**Method:** In this study 400 children aged between 10-14 years attending a school in high railway noise area was compared with children attending one matched control school exposed to no railway noise. Parent form of The Emotion Regulation Checklist, Teacher form of The Emotion Regulation Checklist and State-Trait Anxiety Inventory for Children (STAIC) were administered to the children in the schools.

**Results:** Parent form of The Emotion Regulation Checklist, Teacher form of The Emotion Regulation Checklist and State-Trait Anxiety Inventory for Children (STAIC) demonstrated significant differences between high and no railway noise exposure conditions.

**Conclusion:** The results suggest that the high railway noise exposure is effective in trait-state anxiety and emotion regulation areas and offers a new reduced noise option for this kind of schools.

