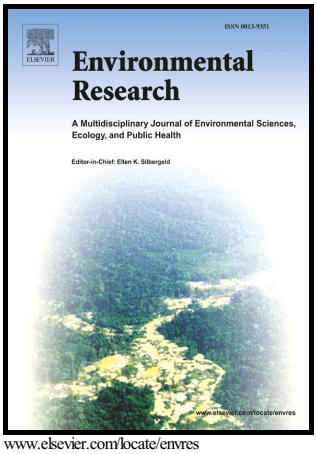

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Pregnancy exposure to wind turbine noise and adverse birth outcomes: a nationwide cohort study

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Abstract

Noise from wind turbines (WTs) is reported as more annoying than traffic noise at similar levels, raising concerns as to whether WT noise (WTN) may negatively affect health, as reported for traffic noise. We aimed to investigate whether residential WTN is associated with adverse birth outcomes. Based on national registries, we identified all Danish dwellings situated within ≤20 WT heights radius and a random selection of 25% of dwellings situated within 20-40 WT heights radius of a WT. We identified 135,795 pregnant women living in the dwellings from 1982-2013, and collected information on gestational age and birth weight