

## Medical/biological Study (observational study)

### Evaluation of the effect of using mobile phones on male fertility.

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#### **Aim of study (according to author)**

This *in vivo* study was performed to determine effects of the usage of cellular phones on the fertility of men.

*Background/further details:*

In a period of about 2 years the semen of 304 men undergoing infertility therapy and without clinical signs of reproductive organ pathologies was examined. The patients were divided into three groups concerning their mobile phone use: group A (99 men): no mobile phone use, group B (157 men): sporadically mobile phone use for the period of 1-2 years, and group C (48 men): regular mobile phone use for more than 2 years. Additionally, place of residence, age, smoking habit, and occupation were considered.

#### **Endpoint**

- effects on reproductive ability: semen quality

#### **Exposure**

digital mobile phone

Exposed system:

human

#### **Methods**

Endpoint/Measurement parameters/Methodology

- effects on reproductive ability: semen quality (examination of semen concentration, sperm motility, sperm abnormalities according to WHO standards)

investigation on living organism


investigated organ system: reproductive system

time of investigation: after exposure

#### **Main outcome of study (according to author)**

Lower percentages in sperm motility of category A (over 50% of the sperm show motility) were found in groups B and C compared to group A. The highest number of normal sperm (higher than 30 %) was observed in group A and the lowest in group C. No statistically significant differences were noticed in the semen concentration.

(Study character: medical/biological study, observational study, full/main study)

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