

## Medical/biological Study (observational study)

### Effect of cell phone usage on semen analysis in men attending infertility clinic: an observational study.

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

To assess the effects of cell phone use on various sperm parameters among patients undergoing infertility evaluation at a male infertility clinic.

#### *Background/further details:*

361 men were divided into four groups according to their cell phone use: group 1: no use; group 2: <2 h/day; group 3: 2-4 h/day; and group 4: >4 h/day.

#### Endpoint

- effects on reproductive ability: semen quality

#### Exposure

mobile phone/mobile communication system

#### exposure details are missing in publication

Exposed system:  
human

#### Methods

Endpoint/Measurement parameters/Methodology

- effects on reproductive ability: sperm parameters (volume, liquefaction time, pH, viscosity, sperm count, sperm motility, viability, morphology)

investigated material: sperms  
investigated organ system: reproductive system

time of investigation: after exposure

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

The use of mobile phones decreased the semen quality in men by decreasing the sperm count, sperm motility, viability, and the percentage of sperms with normal morphology. The decrease in sperm parameters was dependent on the duration of daily exposure to mobile phones.

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

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