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

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- **Objective** : To investigate the effect of cell phone use on various markers of semen quality.

- **Design** : Observational study.

- **Setting** : Infertility clinic.

- **Patient(s)**

Three hundred sixty-one men undergoing infertility evaluation were divided into four groups according to their active cell phone use:

- group A: no use;
- group B: <2 h/day;
- group C: 2–4 h/day; and
- group D: >4 h/day.

- **Intervention(s)** : None.

- **Main Outcome Measure(s)**

Sperm parameters (volume, liquefaction time, pH, viscosity, sperm count, motility, viability, and morphology).

- **Result(s)**

The comparisons of mean sperm count, motility, viability, and normal morphology among four different cell phone user groups were statistically significant. Mean sperm motility, viability, and normal morphology were significantly different in cell phone user groups within two sperm count groups. The laboratory values of the above four sperm parameters decreased in all four cell phone user groups as the duration of daily exposure to cell phones increased.

- **Conclusion(s)**

Use of cell phones decrease the semen quality in men by decreasing the sperm count, motility, viability, and normal morphology. The decrease in sperm parameters was dependent on the duration of daily exposure to cell phones and independent of the initial semen quality.