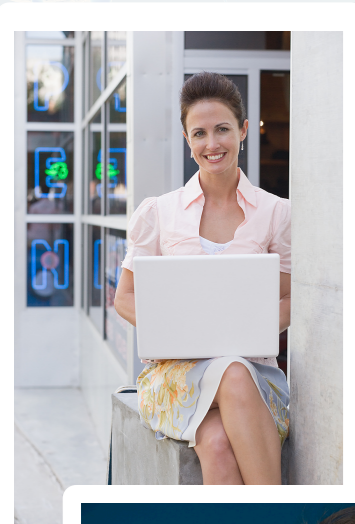


"... EMF exposure was found to alter the reproductive endocrine hormones, gonadal function, embryonic development, pregnancy, and fetal development... These effects were different according to the frequency, duration of exposure, and strength of EMFs. Humans in modern society cannot avoid various kinds of EMFs... but should be aware of the biological hazard of EMFs. The effort to avoid EMF exposure and techniques to protect or relieve EMF radiation are required to preserve our reproductive potential." Gye and Park

★ 2018 META-ANALYSIS: EMF ON MALES, FEMALES, OFFSPRING

2016: META-ANALYSIS: EMF ON REPRODUCTIVE SYSTEMS



"... using a... headset may actually make things worse. A man using one of these devices is likely to keep his cell phone in his pocket or on a belt... his sperm are still being constantly exposed." Vidya Frazier

"... male infertility plays a role in about 50% of cases of failing to conceive after one year." Alasdair Philips



EMF and Miscarriage

MW, phones, lowered milk production

ELF-EMF, altered ovarian follicles, rats

Environmental EMF and Female Fertility

MW, spontaneous abortions, miscarriages

YouTube: Dr. Johansson, sterility, 5 generations

Wireless radiation harms baby's brain development

EMF, decrease in follicles

EMF and risk of miscarriage

HF-EMF, ovarian toxicities, rats

MW towers, spontaneous abortions

ELF-EMF, preterm birth, birth defects

MW, altered development of embryos

★ MW, changes to ovarian morphology, rats

MW, oxidative stress many organs, mice dams

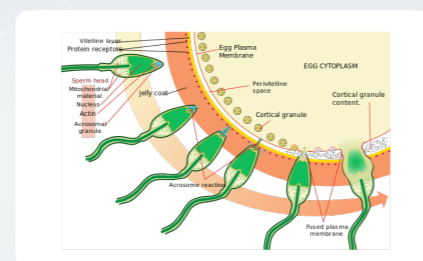
MW, phones during pregnancy, spont. abortion

MW, reduced possibility of embryo implantation

MW, oxi. and nitrosative stress, reproductive structures

ELF-EMF reduced ovarian weight, hormonal changes, rats

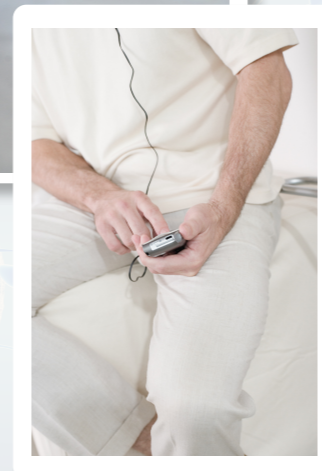
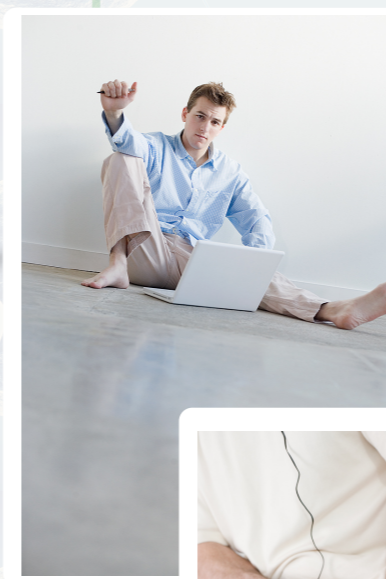
ELF-EMF hormonal, biochem. changes, female organs, rats



Home: Oscillatorium
Newest version this map
Date of this update: 02-12-20

★ BIOINITIATIVE CHAPTER: FERTILITY AND REPRODUCTION

Articles: Males



Sperm in trouble?

Male infertility linked to EMF

YouTube: Semen quality, EMF

★ Cellphones, sperm damage

Phones "cooking" men's sperm

Do Cellphones Affect Sperm Quality?

Low sperm count? Blame Smartphone

Never put your cellphone in your pocket

Men have fewer sperm than 50 years ago

Is your cellphone messing with your sperm?

Sperm count, motility, viability, mobile phones

Studies: Males

ELF-EMF, death of testes cells

MW, testicular stress proteins, rats

Mobile phones, erectile dysfunction

MW, DNA damage, cell cycle arrest

Occupational RF station, seminoma

★ MW, testosterone secretion, rats

MW, cellphones, semen parameters

MW, testes inflammation, gallic acid

MW, quality DNA sperm, methylation

Sperm motility, DNA frag., cell phones

Habits of cellphone use, sperm quality

MW, defective testicular function, rats

MW, laptops, decreased sperm quality

MW, 3G Wi-Fi, decreased semen quality

MW, testicular morphology, function, rats

MW, 2018 review, effect on sperm quality

MW, disturbance reproductive hormones

Sperm motility, DNA fragmentation, Wi-Fi

MW, reproductive hormone level, male rats

MW, long term effects testes, semen quality

ELF-EMF hormonal, structural changes, rats

Pulsed MW, testicle function, structure, rabbit

MW, phone carried in pocket, fertility changes

MW, rabbit epididymal morphology, apoptosis

MW, risk of mutation, sexual trauma, infertility

MW, oxidant effects, mitochondrial dysfunction

MW, hormonal, behavioral changes, male mice

MW, proteomic impacts on male reproduction

EMF effects worse in diabetic rat testicular tissue

MW, rabbits, mounts without ejaculation, more biting

Power plant workers, hormone, inflammation markers

Sperm motility, activity, stress, DNA frag., cell phones

Mobile phone use duration, sperm changes, lit. review

Meta-analysis, 10 studies, adverse effects, sperm quality

MW, sperm changes in offspring, more male offspring, rats

Melatonin: protective effect, oxidation, DNA fragment, testes

WiFi, apoptosis, sperm parameters, testes histomorphology

MW, rats, sperm distortions, oxi. stress, decreased testosterone

Articles: Females

MALE AND FEMALE FERTILITY/REPRODUCTION AND EMF

Studies: Females

ADVICE FOR POTENTIAL PARENTS

See: EMF Hygiene

Use corded Internet connections

Use corded communication devices

Do not use Wi-Fi (at least, keep off when not in use)

Minimize MW/RF exposure at work

Minimize MW/RF exposure while traveling

Pregnant women: don't linger near appliances

Do not use an electric blanket, bed heater, etc.

Ask health provider about melatonin, gallic acid

LIST OF STUDIES: EMF, MALE FERTILITY

QUALITY OF RESEARCH ON EMF AND FERTILITY

"PROTECT YOUR PACKAGE" BOXER SHORTS

DR. MERCOLA, DR. KLINGHARDT, THE EMF EXTINCTION

MALE REPRODUCTIVE EFFECTS

Erectile dysfunction

Decreased sperm concentration

Decreased sperm motility

Decreased sperm viability

Increased seminal stress

Increased DNA fragmentation

Epididymal morphology

Epididymal apoptosis

Decreased diameter, sem. tubules

Coitus without ejaculation

Altered sexual behavior

Altered sperm morphology

Abnormal clumping of sperm cells

Decreased testosterone

Other hormonal changes

Reduced weight of testicles

Effect on sperm of offspring

Seminoma

Death of testes cells

Stress proteins in testicular tissue

FEMALE REPRODUCTIVE EFFECTS

Spontaneous abortion

Hormonal changes

Ovarian toxicities, degeneration

Reduced ovarian weight

Miscarriages

Decreased number of follicles

Degeneration of oocytes

