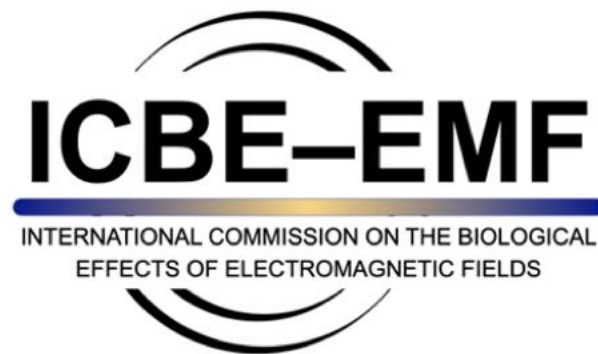


Cell Phone Exposures Induce Oxidative Stress and Male Infertility

Kavindra Kumar Kesari, Ph.D.

Department of Applied Physics, Aalto University, Espoo, Finland

International Commission on the Biological Effects of Electromagnetic Fields
(ICBE-EMF)



RF-EMF Sources and Possible Effects on Reproduction

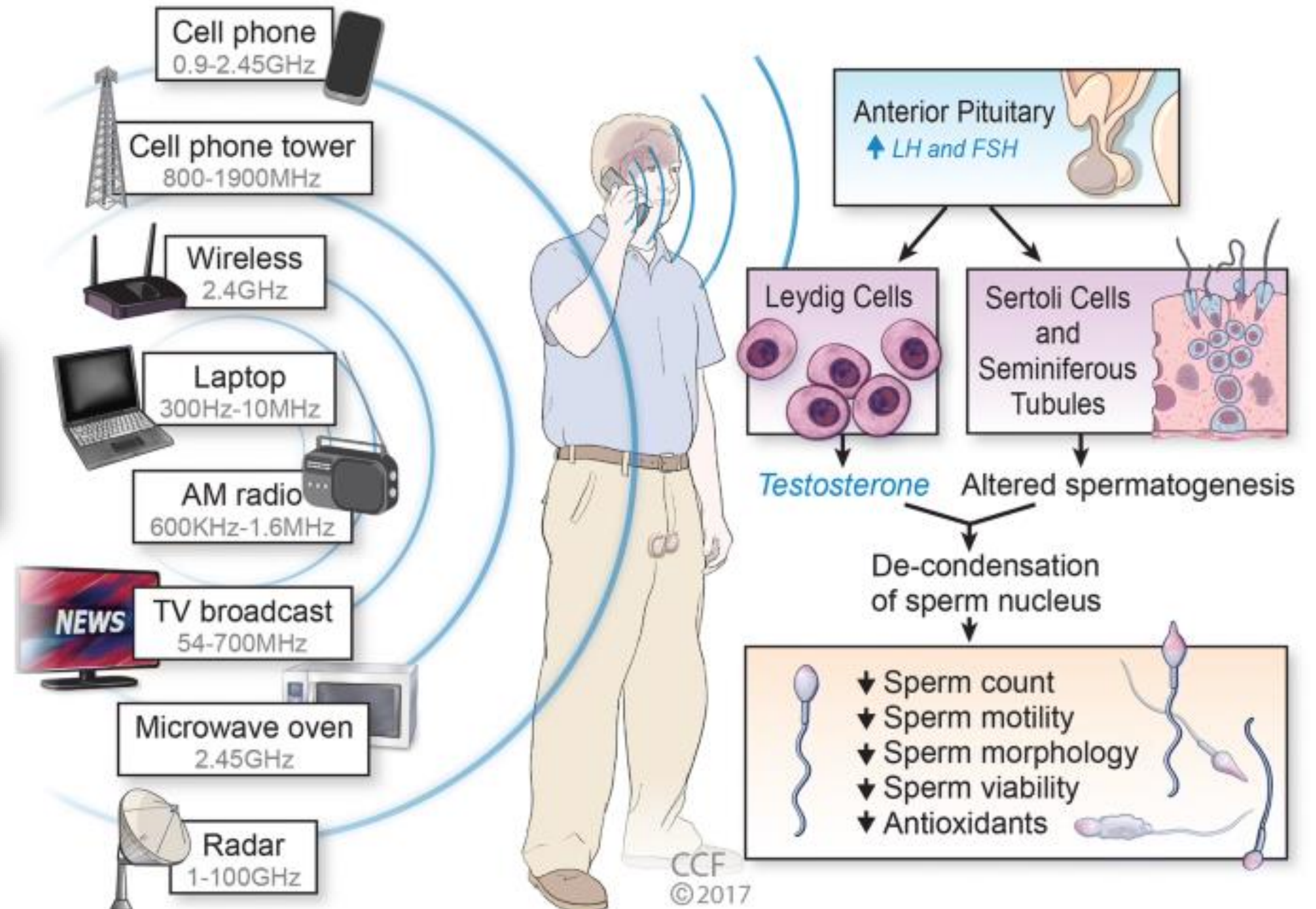
Kesari et al. *Reproductive Biology and Endocrinology* (2018) 16:118
<https://doi.org/10.1186/s12958-018-0431-1>

REVIEW **Open Access**

Radiations and male fertility

Kavindra Kumar Kesari¹, Ashok Agarwal^{2*} and Ralf Henkel³

 CrossMark



Cell Phones and Male Infertility: A Review of Recent Innovations in Technology and Consequences

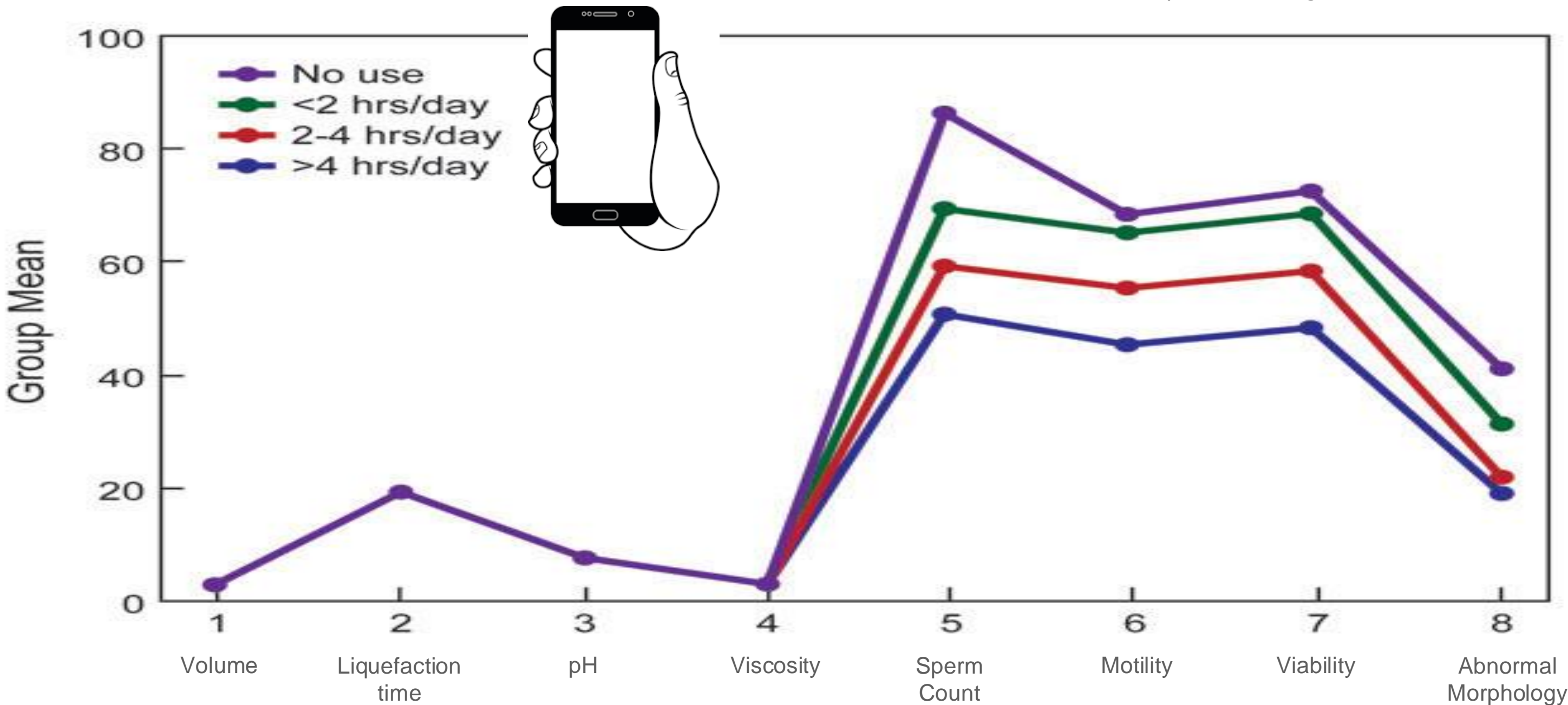
Ashok Agarwal, Aspinder Singh, Alaa Hamada, Kavindra Kesari

Center for Reproductive Medicine, Cleveland Clinic, Cleveland, Ohio, United States

RF-EMF effects on Human Sperm

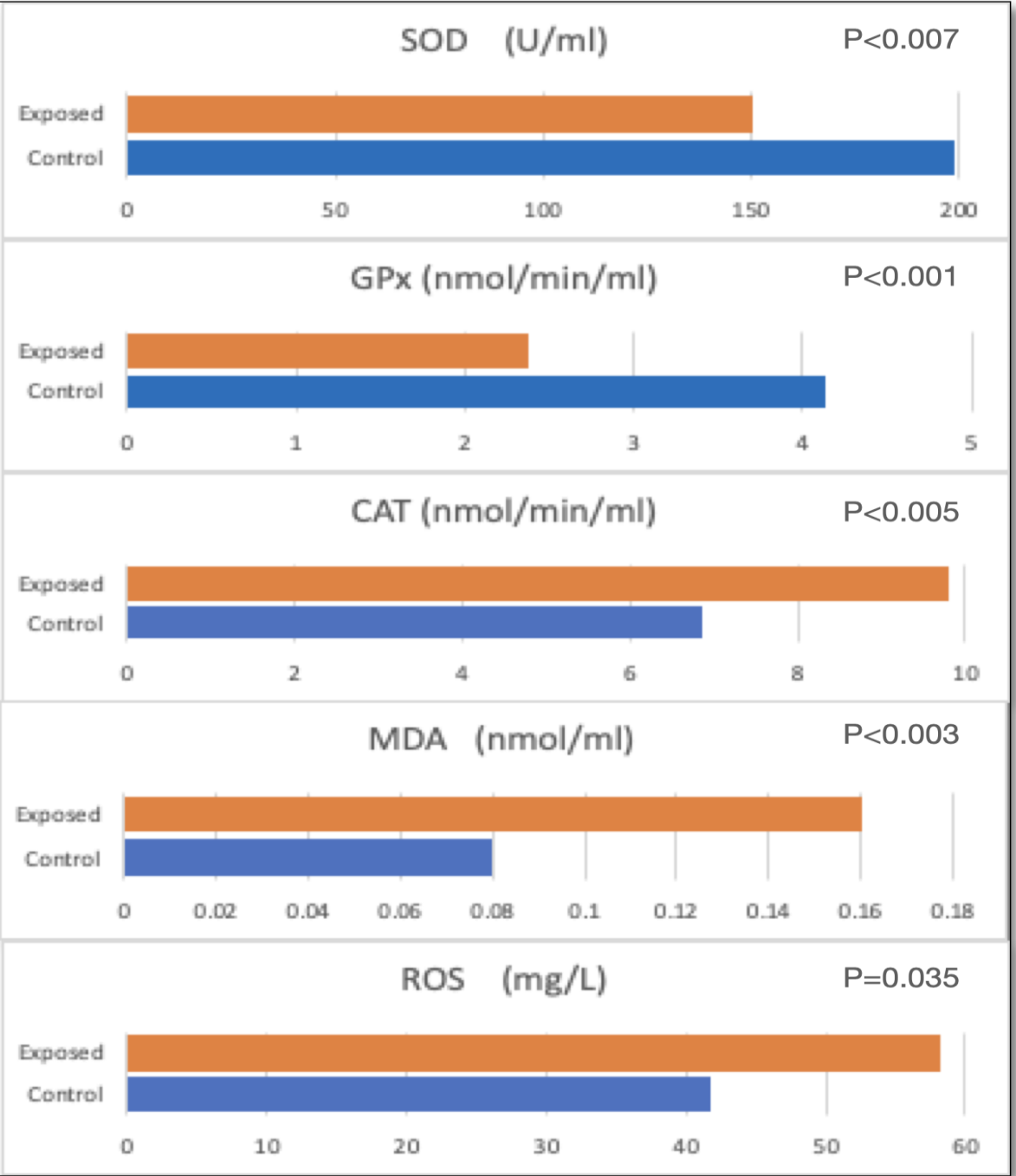


Adapted from Agarwal. Fertil Steril 2008.



Sperm Parameters

RF-EMF Effects on Rat Sperm



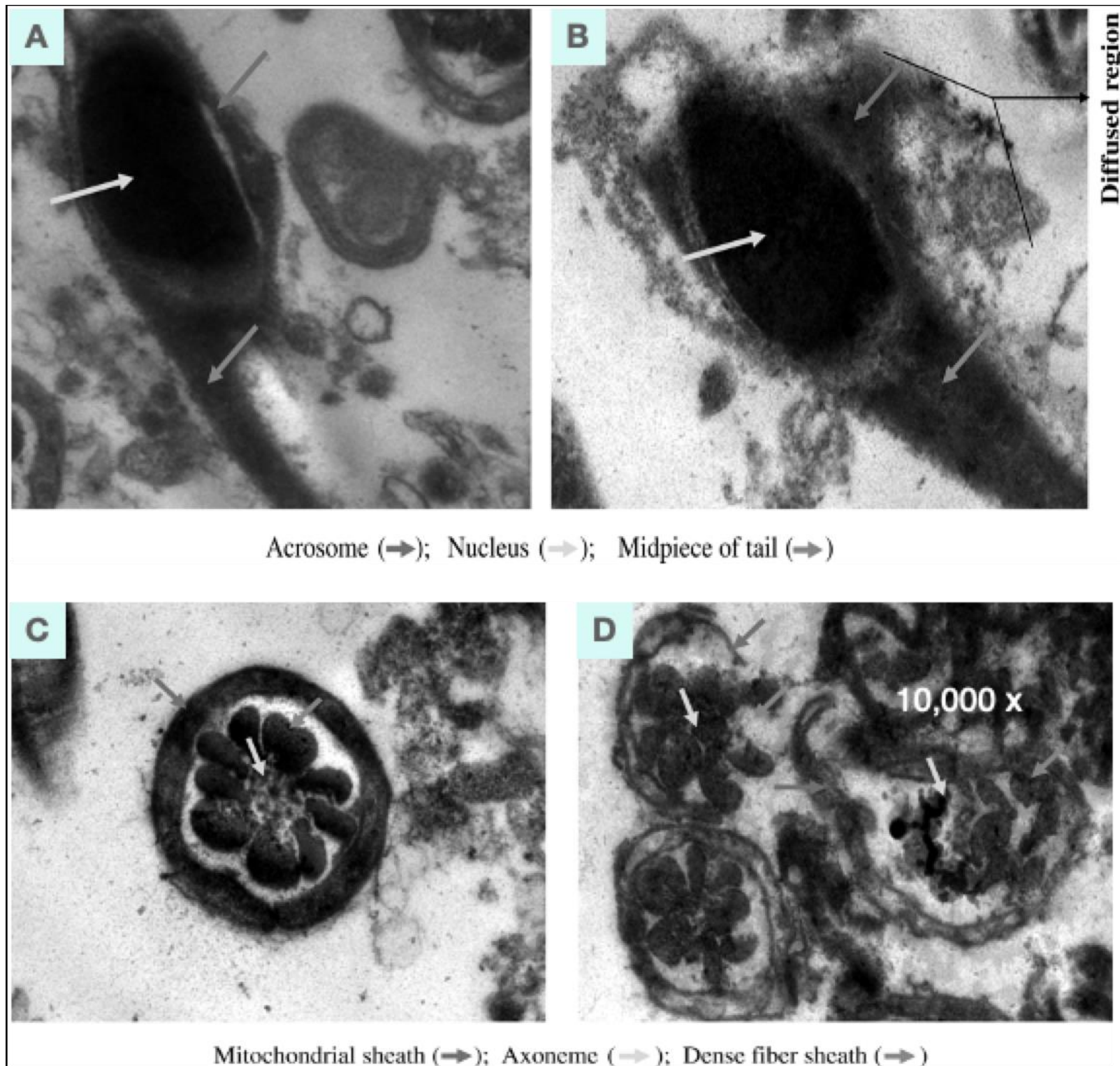


Figure: A & B: section of a rat spermatozoa

(A) In a spermatozoa of an RF-exposed sperm section

(B) the nucleus was seen to be distorted (diffused) in the acrosome region.

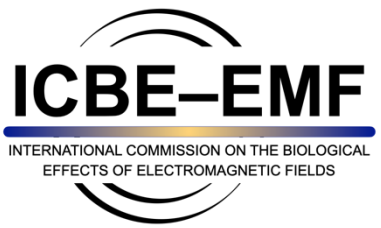
Figure C & D: Cross section of midpiece region of a spermatozoa

(C) showing whole 9 + 2 axoneme, outer dense fibers, mitochondrial sheath, and plasma membrane

(D) midpiece region, microtubules of axoneme, outer dense fibers of mitochondria, and membranes were seen to be disrupted in RF exposed.

Electromagnetic Biology and Medicine, 31(3): 213–222, 2012
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DOI: 10.3109/15368378.2012.700292

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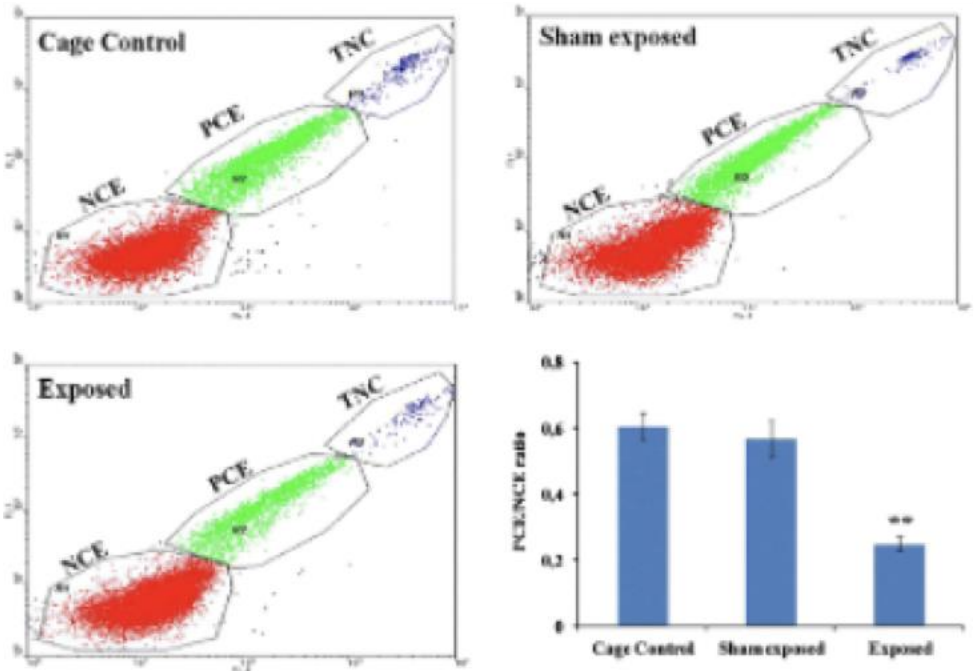
Evidence for mobile phone radiation exposure effects on reproductive pattern of male rats: Role of ROS

Kavindra Kumar Kesari & Jitendra Behari

Bioelectromagnetic Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India

Effect of 3G Cell Phone Exposure with Computer Controlled 2-D Stepper Motor on Non-thermal Activation of the hsp27/p38MAPK Stress Pathway in Rat Brain

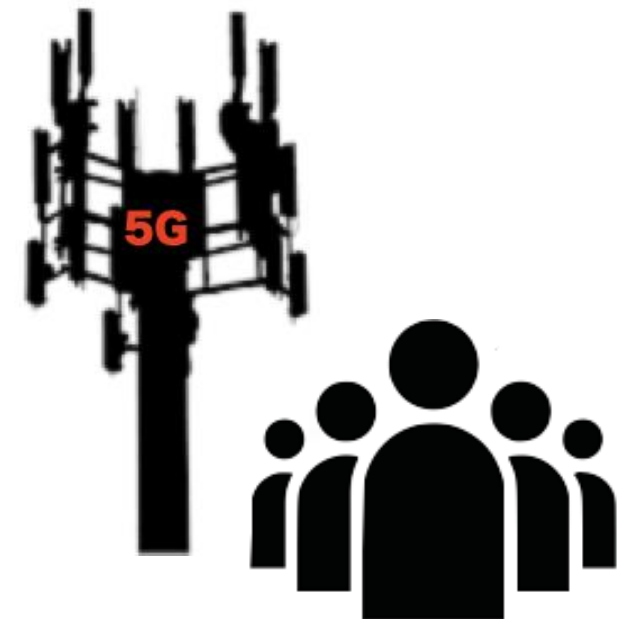
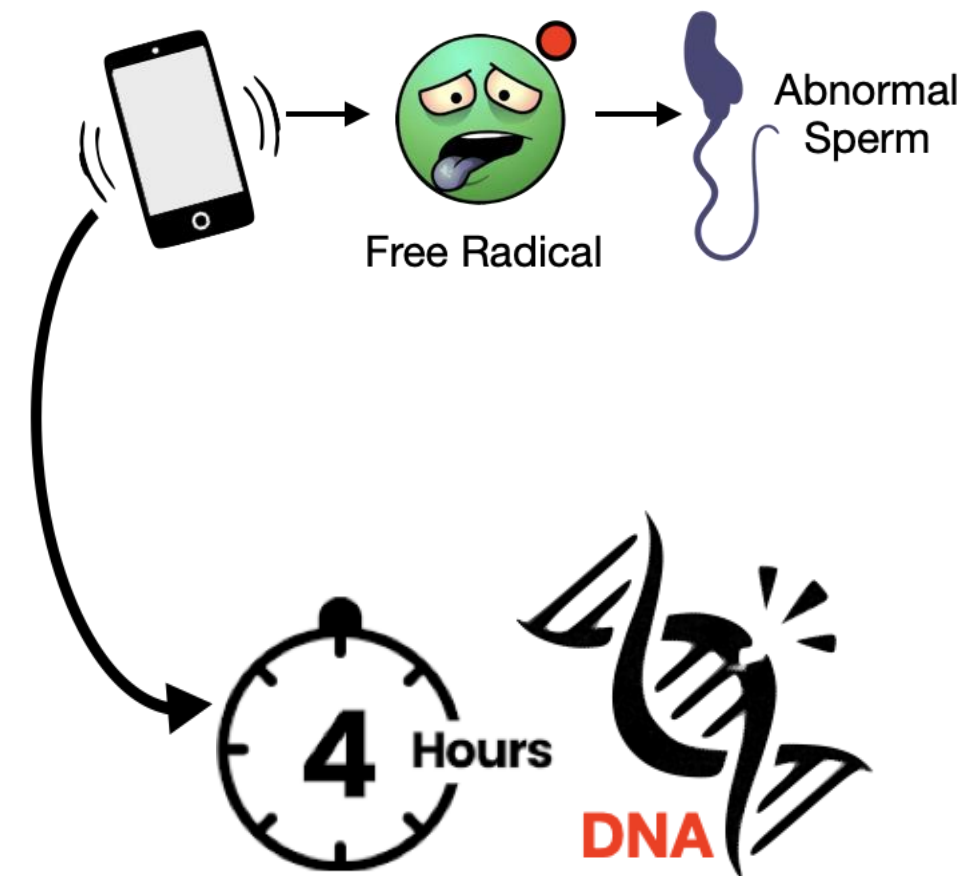
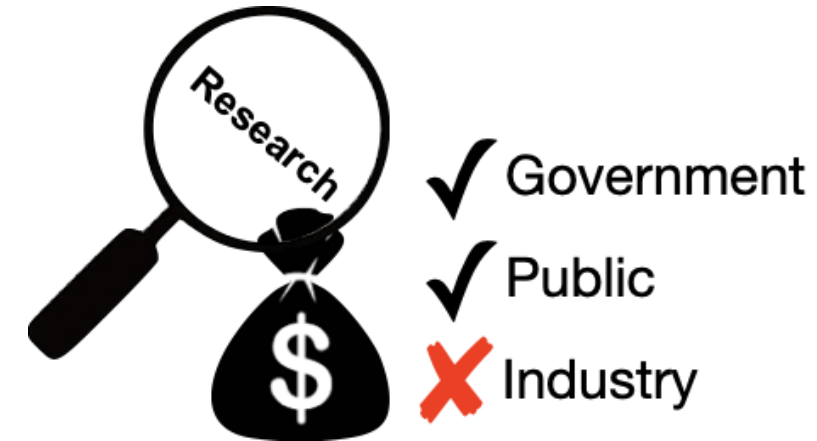
Kavindra Kumar Kesari · Ramovutar Meena ·
Jayprakash Nirala · Jitender Kumar ·
H. N. Verma



Potential Harmful Effects of RF-EMF



- Keeping the cell phone in a **trouser pocket** in active mode will affect sperm parameters



Public Awareness

Kavindra Kumar Kesari: Bibliometric Cumulative Impact Factor 800⁺

Google Scholar		SCOPUS		Publication Summary	
h-index	40	h-index	39	Total Peer review	170+
i10-index	101	ID	24332073300	First author	32
Citation	6600	Citation	4100	Corresponding author	60

Total Book(s):- 7 (Peer review International) Book Chapter:- 35 (Peer reviewed International)

Google Scholar:- https://scholar.google.com/citations?user=r9f4Q_4AAAAJ&hl=en

ORCID:- <https://orcid.org/0000-0003-3622-9555>

PUBMED: <https://pubmed.ncbi.nlm.nih.gov/?term=kavindra+Kesari&sort=date>



**Thank
You**