

**IMPACT ON HUMAN HEALTH II:
Pathology of Nanoparticles.**

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Nanotechnologies are rampant, exponentially growing beyond the bounds normally comprehensible by the human mind. Discoveries once unimaginable except in science fictions are appearing at such a rapid rate that there is no time to evaluate their moral and ethical implications in a deliberate and measured fashion. No one can suspect the impact that they can have on human life and health.

The study of the impact of nanoaprticles on human health introduces innovative evaluations on pathological tissues and the detection of micro and nano foreign bodies in such tissues. Environmental Scanning Electron Microscopic images are presented and correlated with x-ray microanalyses for the chemical compositions of the debris found. Cases of pathological situations of lung, colon, liver and blood are presented, showing the tissue morphology, the topographic presence of the particles along their chemistry. IN some cases explanations about the possible source of this pollution and the mechanisms of entrance into the human body are given.

The study analyses also special situations were the creation and release in the environment of nanoparticles is proved, for instance after blasting of high technology weapons. Images of pathological tissues of soldiers affected by Balkan and Gulf War Syndromes are shown. Special analyses on sperm are presented and discussed.