Lifestyle, Environmental exposures, Infection/Inflammation, Metabolic diseases, Genetic disorders, Iatrogenic factors...

- Reactive Oxygen Species (ROS)

  - DNA damage: DNA adducts, SSB & DSB
  - Membrane damage: Altered proteins & lipids

  - Reduced motility

  - Reduced fertilization success

  - Incomplete or/and error-associated oocyte-mediated paternal DNA repair

  - Transmission of an altered paternal chromosomic lot

  - Abnormal embryo development
  - Miscarriage
  - Increasing susceptibility to diseases (cancer, genetic disorders, metabolic diseases)

- Reduced fertility