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Did you mean: what are the health effects of **psaos** exposure

✦ AI Overview



A specific substance named "PSOA" was not mentioned in the search results. However, the user may have meant "PFOA" or "PFOS," two widely studied chemicals within the larger group of per- and polyfluoroalkyl substances (PFAS). In general, the health effects of PFAS are based on associations found in human and animal studies and can affect multiple body systems. [↗](#)

Potential health effects associated with PFOA, PFOS, and other PFAS include:

Cancer

- **Kidney cancer:** Epidemiological and animal studies consistently link elevated PFOA exposure to an increased risk of kidney cancer.
- **Testicular cancer:** Research on PFOA and PFOS shows a likely association with testicular cancer.
- **Other cancers:** Associations with other cancers, such as prostate, breast, liver, and thyroid, have been observed, but the evidence is less conclusive and requires more research. [↗](#)

Reproductive and developmental issues

- **Pregnancy-induced hypertension and preeclampsia:** Exposure to PFOA and PFOS is associated with a higher risk of developing these high blood pressure conditions during pregnancy.
- **Lower birth weight:** Studies have found a link between PFAS exposure during pregnancy and small decreases in infant birth weight.
- **Changes in fetal and child development:** Research points to potential developmental delays in children exposed to PFAS, which may include delayed puberty, behavioral changes, or lower infant birth weights.
- **Fertility issues:** Exposure has been linked to a potential decrease in fertility. [↗](#)

Immune system effects

- **Decreased vaccine response:** PFAS exposure, particularly in children, has been linked to a reduced immune response to some vaccines.
- **Increased susceptibility to infection:** A compromised immune system could make people more vulnerable to infections.
- **Immunotoxicity:** Government and academic reviews confirm that immunotoxicity, including suppression of antibody production, is one of the most sensitive outcomes of PFAS exposure. [↗](#)

Liver damage

- **Elevated liver enzymes:** Studies show a link between increased PFAS levels in the blood and higher levels of liver enzymes, suggesting liver stress or damage.
- **Nonalcoholic fatty liver disease (NAFLD):** There is suggestive evidence that PFAS exposure is associated with NAFLD. [↗](#)

Endocrine disruption

- **Thyroid disease:** PFAS exposure may interfere with the body's natural hormones and has been associated with thyroid disease and dysfunction.
- **Cholesterol and cardiovascular issues:** Elevated total cholesterol and LDL ("bad") cholesterol have been consistently associated with higher PFAS levels. [↗](#)

Other potential health effects

- **Increased risk of asthma:** Studies suggest a possible link between PFAS and an increased risk of asthma.
- **Ulcerative colitis:** Some evidence points to an association between PFAS and ulcerative colitis. [↗](#)

Important considerations

- **High versus low exposure:** Most animal studies and epidemiological research showing definite links involved high-level, long-term exposure, such as in specific communities or workplaces.
- **Evolving research:** The health effects of PFAS exposure are an active area of research, and scientists are still working to understand the risks of exposure to the thousands of chemicals in this class.
- **Factors influencing risk:** An individual's health outcomes can be influenced by multiple factors, including genetics, diet, and exposure to other environmental

contaminants. 

How PFAS Impacts Your Health

Jul 22, 2025 — Health effects. Research is ongoing to understand the mechanisms of PFAS toxicity. Epidemiological evidence suggests associations...

 Agency for Toxic Substances and ... 



PFAS Exposure Symptoms - Drugwatch.com

Jun 26, 2025 — PFAS Exposure Symptoms. Nearly everyone in the United States has been exposed to per- and polyfluoroalkyl substances (PFAS). These synthetic chemicals, used for...

 Drugwatch.com 

Perfluorooctane Sulfonic Acid (PFOS) and Water

* Perfluorooctane Sulfonic Acid (PFOS) and Water. Perfluorooctane sulfonic acid (PFOS) is one of a group of related chemicals known as perfluorinated alkylate...

 MN Dept. of Health 



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 Agency for Toxic Substances and Disease Registry | ATSDR (.gov)
<https://www.atsdr.cdc.gov> › pfas › about › health-effects

How PFAS Impacts Your Health

Jul 22, 2025 — Health effects · **Increases in cholesterol levels** (PFOA, PFOS, PFNA, PFDA). · Lower antibody response to some vaccines (PFOA, PFOS, PFHxS, PFDA).

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U.S. Environmental Protection Agency (.gov)

<https://www.epa.gov/pfas/our-current-understandin...>

Our Current Understanding of the Human Health and ...

Nov 26, 2024 — Developmental **effects** or delays in children, including low birth weight, accelerated puberty, bone variations, or behavioral changes. Increased ...

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National Institutes of Health (NIH) | (.gov)

<https://pmc.ncbi.nlm.nih.gov/articles/PMC7906952>

Per- and Polyfluoroalkyl Substance Toxicity and Human ...

by SE Fenton · 2020 · Cited by 1918 — A review of 6 published studies found long-chain PFAS **exposure** associated with kidney cancer or kidney cancer mortality, with **risks** ranging from 1.07 to 12.8 (...

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Agency for Toxic Substances and Disease Registry (.gov)

<https://www.atsdr.cdc.gov/pfas/about>

PFAS and Your Health | ATSDR

Jul 22, 2025 — Scientific studies suggest that exposure to some PFAS **may be linked to harmful health effects** in humans and animals.



Public Health Madison & Dane County

<https://publichealthmdc.com/pfas-in-dane-county/pf...>

PFAS & How They Affect Health

How could PFAS affect my health? · **Thyroid disease and dysfunction** · High cholesterol · Breast cancer · Reduced response to vaccines · Liver damage · Kidney cancer ...



American Cancer Society

<https://www.cancer.org/.../Chemicals>

PFOA, PFOS, and Related PFAS Chemicals

May 31, 2024 — Studies in lab animals have found **exposure to PFOA increases the risk of certain tumors** of the liver, testicles, mammary glands (breasts), and ...



ITRC
<https://pfas-1.itrcweb.org> › 7-human-and-ecological-heal...



7 Human and Ecological Health Effects of select PFAS

Inhalation **exposure** to **PFOA**, PFOS, and PFNA caused systemic **effects** similar to oral **exposure**, including hepatic toxicity (**PFOA**–Kennedy et al. 1986 ...



Hydroviv
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Health Effects Caused by Exposure to PFAS Chemicals

Health Effects Caused by Exposure to PFAS Chemicals · **Male Infertility** · Miscarriage · Preeclampsia · Lower Birth Weight · Increased Risk of Liver, Kidney and ...



MN Dept. of Health
<https://www.health.state.mn.us> › hazardous › docs

PDF



PFAS and Health

There is limited evidence for additional health effects from different PFAS, including: **nonalcoholic liver disease and dyslipidemia**, preeclampsia and pregnancy- ...

5 pages



PFAS Water Experts
<https://pfaswaterexperts.org> › serious-illnesses-due-to-pf...

Cancers and Serious Illnesses Due to PFAS Exposure

Health Effects of PFAS Exposure · **1. Cancer** · 2. Thyroid Disease · 3. Liver Damage · 4. Immune System Suppression · 5. Reproductive and Developmental Issues · 6.

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