



## A circular collage of images related to iron. The central image shows various iron-rich foods like broccoli, lentils, and meat, with the word 'IRON' written in chalk on a wooden board. An inset image shows a collection of colorful pills and capsules.

## Your body needs iron for:

- When the microbiome becomes imbalanced — a condition called gut dysbiosis — excess or supplemental iron can feed harmful microbes, worsening overgrowth and inflammation.

Iron is critical for the growth, replication, and survival of most bacteria, fungi, and parasites. These microbes have evolved sophisticated ways to capture it:

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## The Iron Tug-of-War Inside You

When pathogens start stealing iron, your body fights back through a process called nutritional immunity:

- It sequesters iron inside storage proteins like ferritin to keep it out of microbial reach.
- Serum iron levels drop — not necessarily because you're deficient, but because your body is intentionally hiding it.

This is why some people show:

- Low serum iron or hemoglobin,
- Normal or high ferritin, and
- Persistent fatigue or anemia-like symptoms — even with iron supplementation.

In these cases, adding more iron can make things worse by fueling microbial growth and oxidative stress rather than solving the underlying problem.

## Functional Perspective

If you suspect iron imbalance or are told you have “low iron,” it's important to dig deeper before supplementing.

- 1 Run a full iron panel — ferritin, serum iron, TIBC, transferrin saturation, and CBC with differentials.
- 2 Check for hidden infections or dysbiosis — such as bacterial overgrowth, candida, or parasites.
- 3 Focus on gut restoration first — rebalance microbes, support liver detox, and improve nutrient absorption.

Once your gut and immune system are back in balance, your body naturally reclaims stored iron and restores healthy levels — without excessive supplementation.

## Key Takeaway

Iron is essential for life, but it's also a favorite fuel source for microbes. If you're dealing with persistent low iron or fatigue despite supplements, it's worth asking:

“Is this true deficiency — or is my body protecting me from microbial overgrowth?”

### References

- [Hussain R. et al., Front Mol Neurosci, 2019](#) — Iron and brain function.
- [Contreras H. et al., Front Cell Infect Microbiol, 2018](#) — Heme uptake by pathogens.
- [Holden V. et al., mBio, 2016](#) — Siderophores in *Klebsiella pneumoniae*.
- [Almeida R. et al., FEMS Yeast Res, 2009](#) — Iron utilization in *Candida albicans*.