



Research Summary: Mold Illness #1

As featured in Dr. Kenny Mittelstadt's video:
"Mold Illness | Why Symptoms Get Missed & How To Test"
Date of Publication: 03/12/2026

Research Context:

Many people experiencing mold-related illness describe a confusing pattern of symptoms. They may notice fatigue, brain fog, sinus issues, headaches, or mood changes, yet their routine medical tests often come back normal. Because these symptoms span multiple body systems rather than one organ, they can be difficult to connect back to a single environmental cause.

This week's topic explores how mold exposure can influence several communication networks in the body at the same time, including the immune system, respiratory tract, and stress-response pathways. When those systems are under ongoing environmental stress, symptoms may appear gradually and in combinations that are easy to overlook. The research below helps explain why these patterns occur and why identifying environmental triggers can sometimes be an important piece of the bigger health picture.

Key Findings from the Research:

Study 1 (PMID 41265402):

A systematic review examined research involving more than 40,000 participants to evaluate health patterns linked to damp or mold-affected environments. Across multiple studies, people living in these environments reported fatigue and general health complaints more often than those in healthier buildings. This matters because fatigue is one of the most common but least specific symptoms in medicine. In real life, that means people may spend years trying to explain their exhaustion through sleep problems, stress, or aging when their living or working environment may also be contributing to the pattern. The review highlights how environmental exposures can play a role in energy-related symptoms that might otherwise be overlooked.

Study 2 (PMID 39162373):

A 2024 state-of-the-science review examined how damp or mold-affected housing may influence mental health. Researchers found that mold exposure can affect mental wellbeing through two overlapping pathways. First, the stress of living in unhealthy housing conditions can affect psychological health. Second, biological pathways such as inflammation may influence brain function. In plain language, this helps explain why some people in moldy environments report symptoms like brain fog, anxiety, or mood changes rather than only respiratory symptoms. Instead of just affecting the lungs, mold exposure may influence inflammatory signals that affect how the brain processes stress, mood, and cognitive clarity.

Study 3 (PMID 40923229):

A long-term cohort study following individuals from birth through early adulthood found that exposure to dampness and mold in the home was linked with more respiratory infections over time. Importantly, the risk increased as exposure accumulated. In other words, the longer someone lived in a damp or mold-affected environment, the more likely they were to experience repeated respiratory illnesses such as sinus infections, bronchitis, or persistent cough. This finding highlights an important pattern. Mold exposure may function less like a one-time trigger and more like a chronic environmental stressor. Ongoing exposure can keep the immune system in a heightened defensive state.



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Functional Medicine Connections:

Your body is constantly receiving signals from the environment. Air quality, microbes, allergens, and toxins all influence how your immune system and stress-response networks behave.

When mold spores or mold-related compounds enter the body, the immune system often activates inflammatory signaling as part of its defense strategy. Those signals do not stay confined to one organ system.

Immune signals can influence the respiratory tract, contributing to sinus irritation or persistent cough. They can affect the brain, influencing focus, mood, and energy levels. They can also interact with the body's stress-response system, which regulates how well we adapt and recover.

In systems-thinking language, mold exposure can increase what we might call system load. When several communication networks are under strain at the same time, symptoms often appear across multiple systems rather than in one predictable place. That multi-system pattern is one reason mold-related illness is frequently missed in traditional symptom-based evaluations.

Practical Reflections & Takeaways:

Research like this is helpful because it reminds us that symptoms often follow patterns rather than appearing randomly.

If you have experienced fatigue, brain fog, sinus irritation, or frequent respiratory infections, it may be helpful to think about when and where those symptoms tend to appear. Do they seem worse in certain buildings? Do they improve when you travel, spend time outdoors, or change environments?

Another useful reflection is timing. Did symptoms begin or worsen after moving into a new home, working in a building with water damage, or spending long periods in damp indoor spaces? Environmental exposures sometimes develop slowly, so the connection may not feel obvious at first.

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