

“The PRS equipment has been life changing for my family and I. Our mental and physical health has improved. In particular sleep has improved substantially for every member of our household.” - **Mother M**

Case Study

RESIDENTIAL MOULD



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PRS: Transforming Lives Through Clean Air Technology

A Decade of Suffering Ends in Just 3 Weeks

A North London family endured over ten years of debilitating health conditions, including life-threatening seizures, epilepsy, severe anxiety, and developmental regression, directly linked to toxic mould levels in their social housing property. Their home contained airborne mould concentrations 10-14 times higher than outdoor levels, including dangerous toxigenic species such as Chaetomium.

Immediate Environmental Transformation

Within just days of installing the PRS “Breathe Easy” Sustainable Air Solution, environmental testing confirmed:

- ✓ **88% reduction** in key airborne mould species (Aspergillus/ Penicillium)
- ✓ **50% reduction** in harmful particulate matter (PM<10)
- ✓ **Stabilised humidity** at optimal 45-55% levels

COLLABORATIVE INNOVATION

An introduction by our legal partners, DWF, led to the deployment of the PRS “Breathe Easy” Sustainable Air Solution technology. The collaborative project partners included:



Pathogen Reduction Solutions
Advanced air treatment technology



DWF Legal
Pro bono legal support



Mums v Mould
Housing advocacy campaign



Farmwood M&E Services
Ventilation & air quality specialists



University of Bath
Independent academic oversight



REMARKABLE HEALTH RECOVERY

The family experienced immediate and profound health improvements:

- ✓ The adolescent son with severe epilepsy experienced **no seizures** during the trial period
- ✓ All family members reported **better sleep, improved mental health, and clearer skin**
- ✓ Developmental **regression reversed** and behavioural challenges diminished
- ✓ One child was able to **discontinue melatonin medication** for sleep

"I was constantly fatigued, experienced 'air hunger', like I couldn't get enough air when I breathed. I was always anxious and had negative intrusive thoughts." - Adult Child W

"I can breathe better, and I feel calmer and happy. My skin is also better" - Child S

Action Needed!



Over 200,000 UK Households Face Similar Conditions

Damp and mould issues should not be considered cosmetic. They are environmental health emergencies causing measurable harm to vulnerable families across Britain.

The cost of inaction:

- ➔ £1.4 billion annual NHS treatment costs
- ➔ £18.5 billion total societal impact
- ➔ Countless families suffering in silence

3-Week Pilot, Life-Changing Results

This dramatic transformation occurred in just three weeks, demonstrating the technology's rapid effectiveness as an emergency public health protection measure.

The family's health improved when temporarily away from the property but deteriorated upon return, establishing a clear link between the home environment and their illnesses.

Health & Wellbeing Improvements (Self-Reported, 1-10 Scale)		
Health Metric	Average Score Before	Average Score After
 General Air Quality	2.00	7.30
 Breathing Ability *	2.67	7.25
 Mental Wellbeing & Sharpness	1.83	5.89
 Physical Health & Energy	2.17	6.00

* Average of responses for living room (3.00 to 8.00) and bedroom (2.33 TO 6.50)

LINKS:



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PRS Briefing Doc



DWF Legal Report

Patents

Granted:

GB 2601361, GB 2614287, GB 2619499, GB 2633940

Applications:

EU Pending: 23730188.2, 22840285.5

US: App No: 18/254646, 18/723139, 18/870423