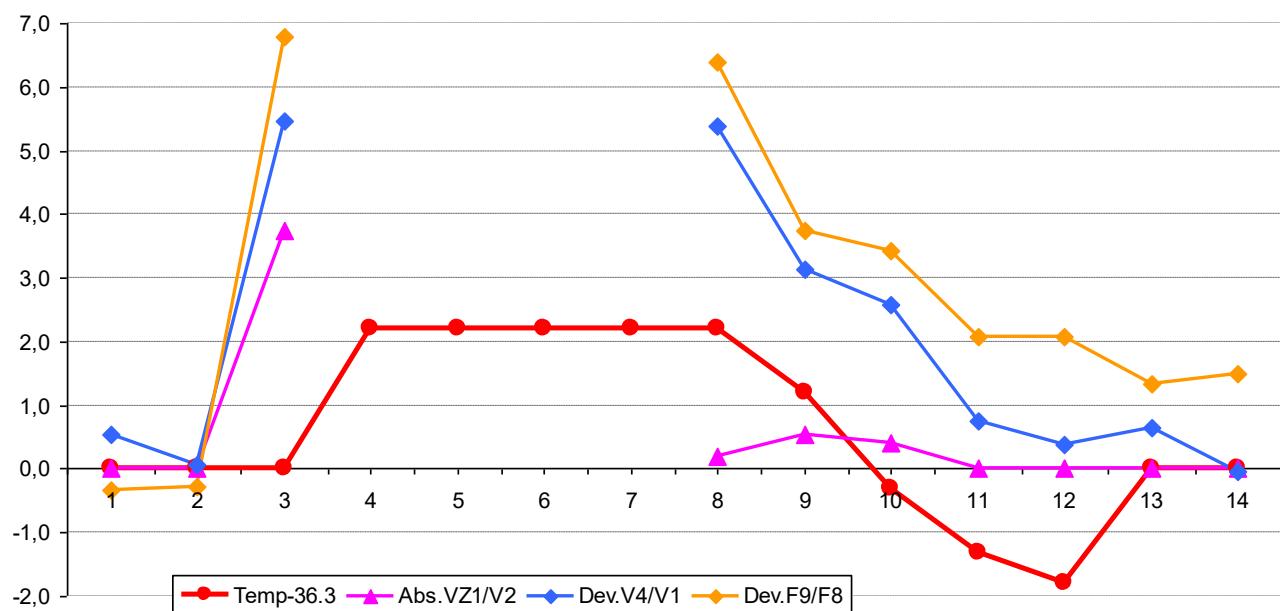


Portable Urine Metabolomics Analyzer for Clinics & RPM

- Delivers real-time, universal tracking of therapy response across diseases with an inflammatory component.
- Seamlessly integrable with smart toilets and smart medical beds , enabling continuous, passive data collection in clinical settings and during remote patient monitoring (RPM).

Biomarker Ratio	Interpretation & Value
F9/F8	Global <u>metabolic stability indicator</u> . Reflects systemic metabolic regulation and overall metabolic balance.
V4/V1, F9/F10	Markers of immune activation <u>associated with inflammatory processes</u> . Typically up-regulated during active inflammatory states.
VZ1/V2, Z1/ F8	Early markers of immune system activation, often <u>preceding clinical manifestations</u> such as fever or symptoms.
F4/F8	<u>Functional performance marker</u> reflecting physiological readiness and adaptive capacity.

Typical timeline of biomarker and body temperature changes in atypical pneumonia (biomarkers: day 3; temperature: day 4).



Days 1-2: Normal baseline. **Day 3:** Biomarkers respond to infection. **Day 4:** Body temperature increases (**red line**). **Day 8:** Clinic visit (slight increase of infection indicator VZ1/V2, **purple line**); doxycycline therapy initiated.

Day 14: Normalization of V4/V1 biomarker (**blue line**) – acute phase resolved. However, F9/F8 (**orange line**) remains elevated, indicating incomplete recovery.