
Press release

New European Journal of Neurology study benchmarks Prof. Valmed against 16 LLM configurations

Langen, Germany – A newly published open-access study in the European Journal of Neurology has evaluated Prof. Valmed, a CE-marked Class IIb LLM-based medical decision-support product, on a 130-item evidence-based neurology benchmark derived from American Academy of Neurology guidelines.

Prof. Valmed V2.0.1_2.0.0 achieved 76.2% correct answers. In pairwise comparisons with 16 previously evaluated LLM/configuration settings assessed using the same benchmark and protocol, Prof. Valmed performed significantly better than eight settings and significantly worse than one reasoning model using whitelisted neurology sources.

The authors concluded that the system's accuracy was within the range of contemporary commercial LLMs and emphasized that CE marking indicates regulatory conformity rather than automatic performance superiority.

"This is exactly the distinction that matters for clinical AI," said Vera Rödel, co-founder and CEO of Prof. Valmed. "The goal is not to claim that regulation makes an AI model universally smarter. The goal is to combine competitive model performance with evidence governance, traceability, risk management and a controlled product lifecycle that healthcare institutions can deploy responsibly."

The new publication follows peer-reviewed evaluations in postgraduate multiple-sclerosis education and rare/complex rheumatology diagnostics. Across these distinct settings, Prof. Valmed has shown competitive performance while also illustrating the safety and adaptability trade-offs inherent to regulated medical AI.

Prof. Valmed plans to support further external evaluation focusing on reasoning quality, source use, reproducibility, workflow impact and real-world clinical utility.

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