



TCS Life Sciences Virtual Roundtable Series

Get it right, make it safe: A 360-degree approach to signal detection



April 23, 2025



10:00 AM ET | 2:00 PM GMT
3:00 PM CET | 7:30 PM IST

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Traditionally, safety signals are detected either qualitatively or quantitatively. Qualitative detection involves a deep analysis through manual assessment of the individual case safety reports (ICSRs) in an individual or a cumulative manner, whereas the quantitative methods involve multiple statistical approaches. Varied sources, multiple datasets, different signal detection platforms, variability, and reporting requirements make it challenging to drive the safety signal detections.

Advanced analytics and artificial intelligence (AI) technologies have the potential to transform the earlier methods of safety alerts detection and validation. This can help improve the efficiency and precision of drug monitoring and surveillance.

Join this roundtable to explore innovative levers with digital technologies that can transform signal detection and management in pharmacovigilance:

- **Elevate safety surveillance:** Use of natural language processing (NLP) in reading, interpreting, identifying, and alerting potential safety signals, monitoring social media efficiently by detecting trends and augmenting qualitative and quantitative analysis including the use of predictive analytics. Also, it enables earlier detection of safety signals through AI-driven multi-modal signal detection.
- **Regulatory compliance:** Statistical interventions, NLP, AI, and generative AI (GenAI) can play a crucial role in enhancing regulatory compliance to demonstrate that data mining methods are transparent, reproducible, and compliant to ensure overall credibility.

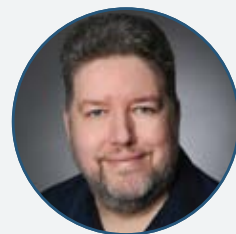
Panelists



Dr. Alexander Biedermann
Head of BRM,
Chief Patient Safety Officer, Bayer AG



Robert P. van Manen
CEO and Founder
Signalman Safety Consulting



Michael Braun-Boghos
Senior Director Safety Strategy
Oracle Life Sciences



Sanjeev Sachdeva (Moderator)
Global Head, Strategic Capability and
Advisory, Life Sciences, Tata Consultancy Services



Anumita Ghosal (Host)
Business Group CMO
Tata Consultancy Services

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