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Topic

Bridging Additive Manufacturing between Non-Medical Industry and Medical Applications

Additive manufacturing in the medical context is often seen as highly regulated, complex and limited to patient-specific applications. In contrast, industrial AM focuses on speed, scalability and material diversity. Both worlds follow their own logic yet can benefit greatly from each other. This keynote will begin by highlighting characteristics of personalized medical AM. Using risk management and validation as examples, the keynote will illustrate how fundamentally different the mindsets are: emphasizing preventive safety over iterative optimization, and requiring proof of clinical benefit, safety, and reproducibility under real-world conditions, rather than validation of the printing process alone. The second part will highlight the broader potential of medical AM when it is not equated solely with implants. Additive technologies can address specific challenges in day-to-day clinical settings that go beyond direct patient contact. With specific examples it will be discussed how the transfer between the industrial and medical worlds can be achieved.

About the Speaker

Dr Özlem Weiss is Managing Director of Expertants GmbH and an expert in medical additive manufacturing. Expertants supports companies and start-ups in product and development project. Focus topics are market assessments and business model development combined with regulatory strategy, MDR transfers, certification and registration from low to high-risk medical devices. Dr. Weiss also serves on the boards of POC APP AG and Periotrap GmbH, coaches early-stage start-ups, and is active as an investor. With a background in chemistry and experience in both academia and industry, she combines scientific depth with entrepreneurial perspective.