TECHNOLOGY LANDSCAPING FOR INNOVATIONS IN THE DETECTION OF POST-SURGICAL SITE INFECTIONS

A Multinational Medical Technology Company

The Client was looking to build their infection prevention platform and business to enable the identification of high-risk patients for post-operative monitoring and provide the means to inform the surgeon.

CHALLENGE

The Client wanted to understand the landscape of companies and academic institutions that were working on technologies for early detection, specifically, detection of deep, below-the-surface infections that often lead to negative results. In addition, the Client was in search of companies that could provide insight into possible tools, materials, or approaches.

APPROACH

PreScouter conducted in-depth research into high- and low-TRL post-operative surgical site infection (SSI) detection technologies for superficial, deep-incisional, and organ-based infections and created an interactive landscape to compare them. Common underlying physiological parameters behind all technologies were identified, and deep research was conducted to determine the parameters that offered superior SSI detection. Finally, the data generated was verified by interviewing four experts in this field and recording their findings to tie down the landscape and recommendations.

OUTCOME

PreScouter identified **25 commercial** and **68 emerging technologies** aimed at early detection of post-op surgical site infections. An interactive matrix was also provided to the Client to score and compare all technologies based on the following criteria: developer score, technology score, IP score, and key metrics score. Finally, **10 common physiological parameters** behind the technologies of interest were also presented to the Client.