EVOLVE: Harnessing the Power of AI, Real-World Data, and Targeted Education to Minimize Breast Cancer Care Disruptions

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Background

HER2-targeted therapies have significantly advanced the treatment of HER2+ breast cancer. However, some of these therapies are associated with interstitial lung disease (ILD), a serious and potentially life-threatening adverse event (AE) that warrants careful consideration.

Given the severity of ILD, developing a comprehensive understanding of its incidence, risk factors, and early warning signs is paramount for patient safety. While established monitoring protocols and management guidelines exist, continued research into ILD prevention and management strategies remains essential to help healthcare providers optimize treatment decisions and support patients through their treatment journey with HER2+ breast cancer.

Quality Improvement Methods

Project EVOLVE is a two-part quality improvement study that combined Novellia's AI-powered health platform with PRIME Education's expertise to analyze real-world evidence to understand ILD patterns in relation to HER2+ therapies, aiming to develop targeted educational resources for both clinicians and patients to enhance early recognition, monitoring, and management of this serious adverse event.

Part 1



A real-time observational study analyzed over 500,000 unique health records of HER2+ breast cancer patients using structured data analytics to identify patterns in ILD occurrence, diagnosis, management approaches, and potential gaps in care.

Part 2



educational interventions for patients on the Novellia platform and their treating HCPs. • Patient interventions included personalized

Development and implementation of targeted

- modules on cancer basics, treatment adherence, and side effect management
- HCP interventions focused on patientspecific care strategies and advanced ILD management techniques

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Part 1 Findings

- 14% in published literature¹ (n=24)



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References

1. Henning JW, Brezden-Masley C, Gelmon K, Chia S, Shapera S, McInnis M, Rayson D, Asselah J. Managing the Risk of Lung Toxicity with Trastuzumab Deruxtecan (T-DXd): A Canadian Perspective. Curr Oncol. 2023 Aug 30;30(9):8019-8038. doi: 10.3390/curroncol30090582. PMID: 37754497; PMCID: PMC10529919

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