

Social Media Listening for Early Breast Cancer in Italy: Framework for Social Media-Based Insights

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KEY FINDINGS

- Patients were active on social media platforms to share their experiences and to seek advice
- Patients used forums and blogs primarily to discuss topics such as coping with drug side effects and impact of the disease on overall well-being
- Twitter/X was used more by the HCPs to raise disease awareness highlighting the risk factors and shared updates on research/clinical trials
- Facebook community pages had plethora of patient conversations seeking advice from peers and sharing their experiences for disease management
- Instagram was used for raising awareness through expert interviews on topics such as mental well-being
- Local patient support groups shared patient testimonials on YouTube highlighting aspects such as delayed diagnosis, multiple diagnostic tests

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INTRODUCTION

- In 2022, female breast cancer is predicted to be the top cancer worldwide, with 2.3 million new cases (11.6% of all cancers)¹. It is also the leading cause of death for women and the fourth highest cause of cancer-related mortality globally¹. Breast cancer patients face a multitude of challenges throughout their disease journey, starting from the initial symptom identification and continuing through diagnosis, treatment and disease management^{2–4}. To comprehend these diverse challenges, conventional approaches such as questionnaires, interviews, and patient-reported outcome measures are frequently utilized to gather qualitative data. Nevertheless, these studies often involve a limited number of participants or necessitate longer durations to conduct, ultimately failing to fully grasp the distinctive obstacles experienced by patients in their individual journeys^{5–8}. To gain a deeper understanding of these challenges, the approach of social media listening has recently gained significant prominence and importance^{9–11}.

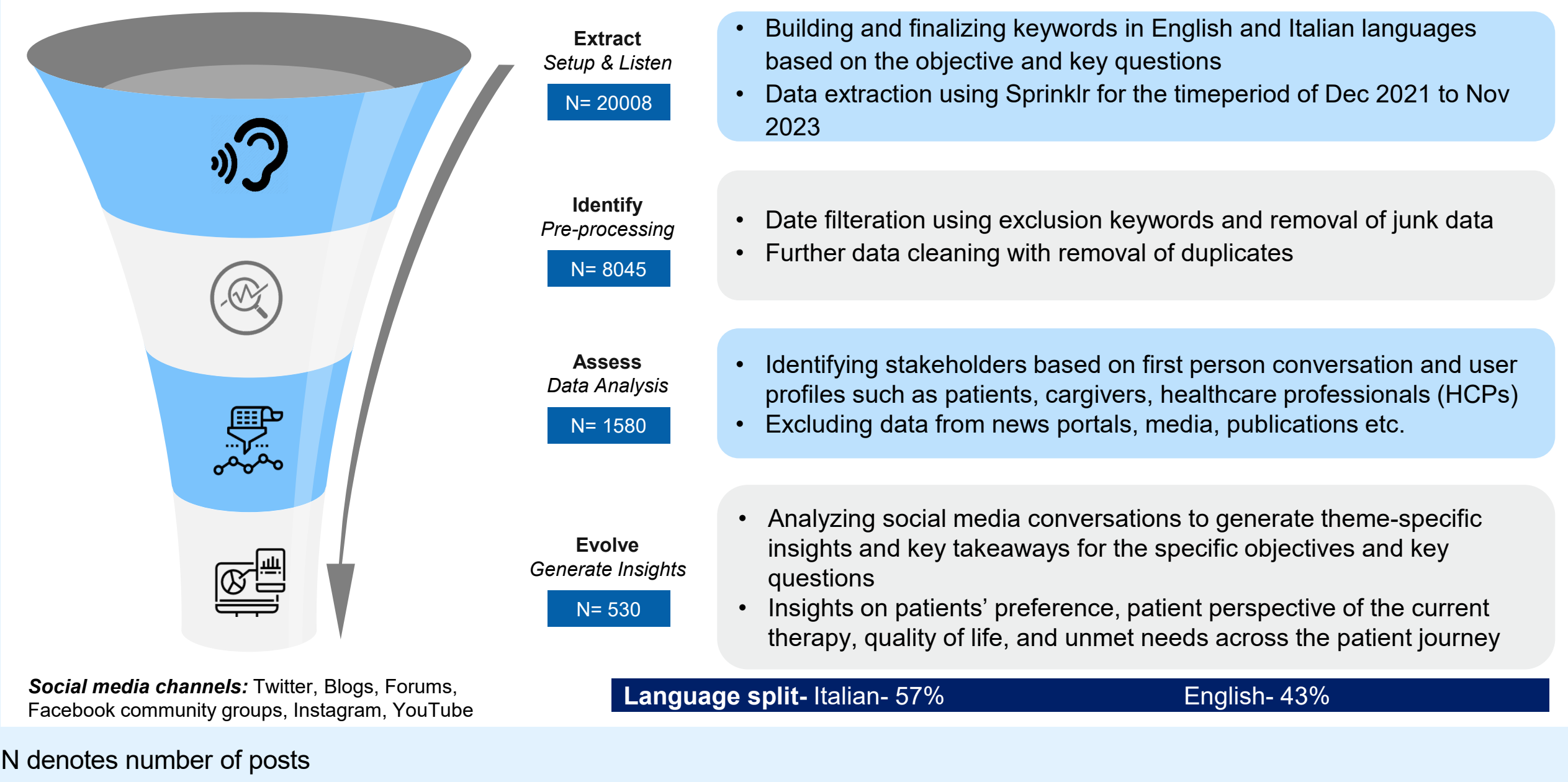
OBJECTIVE

- This study aimed to harness the power of social media listening (SML) to gain insights on patients’ journey in early breast cancer (eBC) in Italy.

METHODS

- A comprehensive search was conducted on social media platforms (Twitter/X, Blogs, Forums, Facebook community groups, Instagram, and YouTube) from December 2021 to November 2023, using relevant keywords of ‘breast cancer’ both in Italian and English language. Data collection was performed using Sprinklr, an online SML tool. Natural language processing and manual screening were employed to preprocess and analyze the data. Details of methodology are depicted in **Figure 1**.

Figure 1. Social media listening methodology



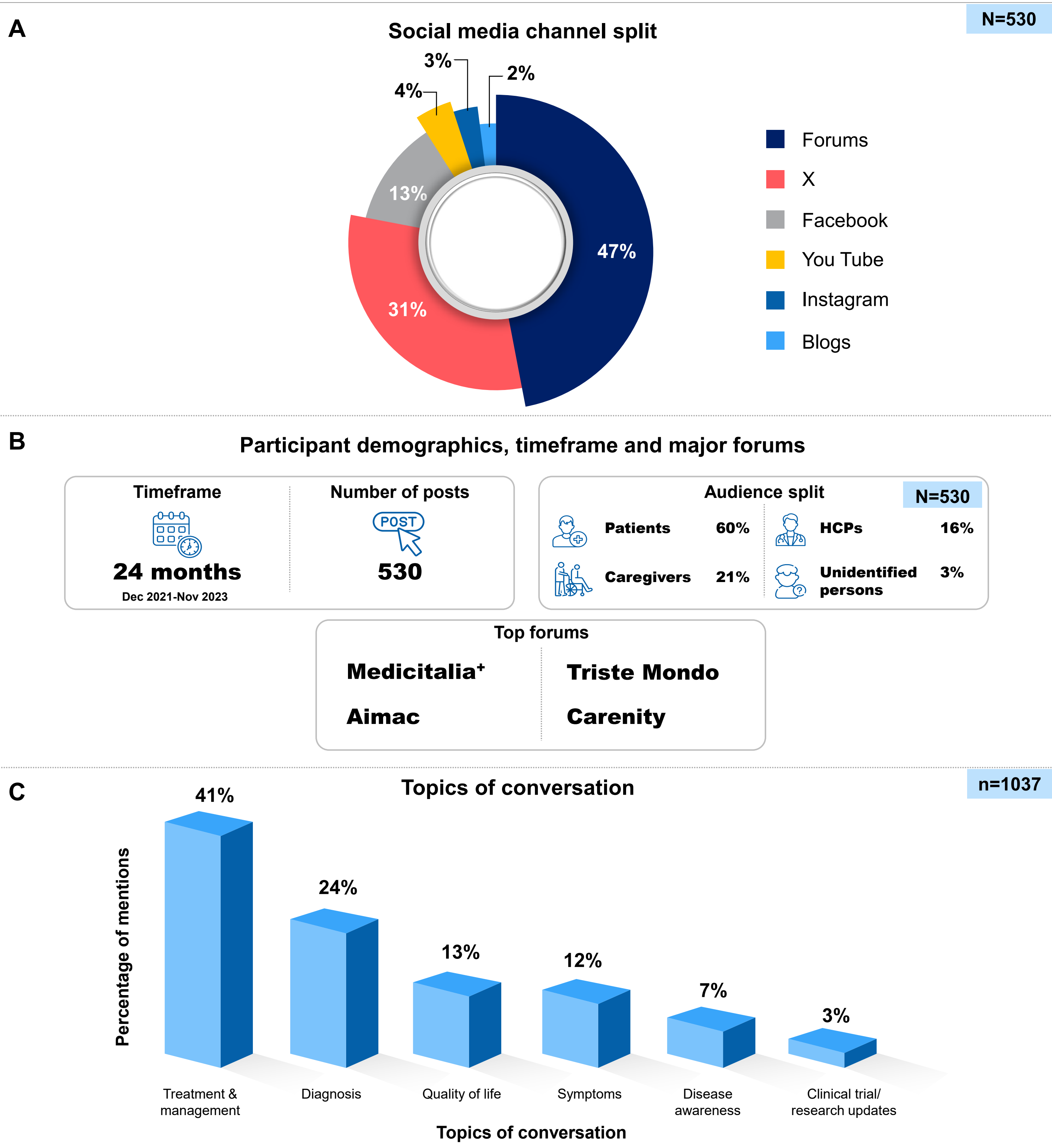
RESULTS

A total of 1580 posts were screened, and 530 posts were included in the final analysis after excluding irrelevant posts

Social media channel landscape

Prominently used social media platforms were forums (47%) and Twitter/X (31%). Around 60% of the total posts were contributed by patients. Most of the conversations were related to treatment and management of disease followed by diagnosis (**Figure 2**).

Figure 2. (A) Percentage of posts from various social media platforms, (B) Participant demographics, timeframe, and major forums and (C) Type of conversations/themes identified

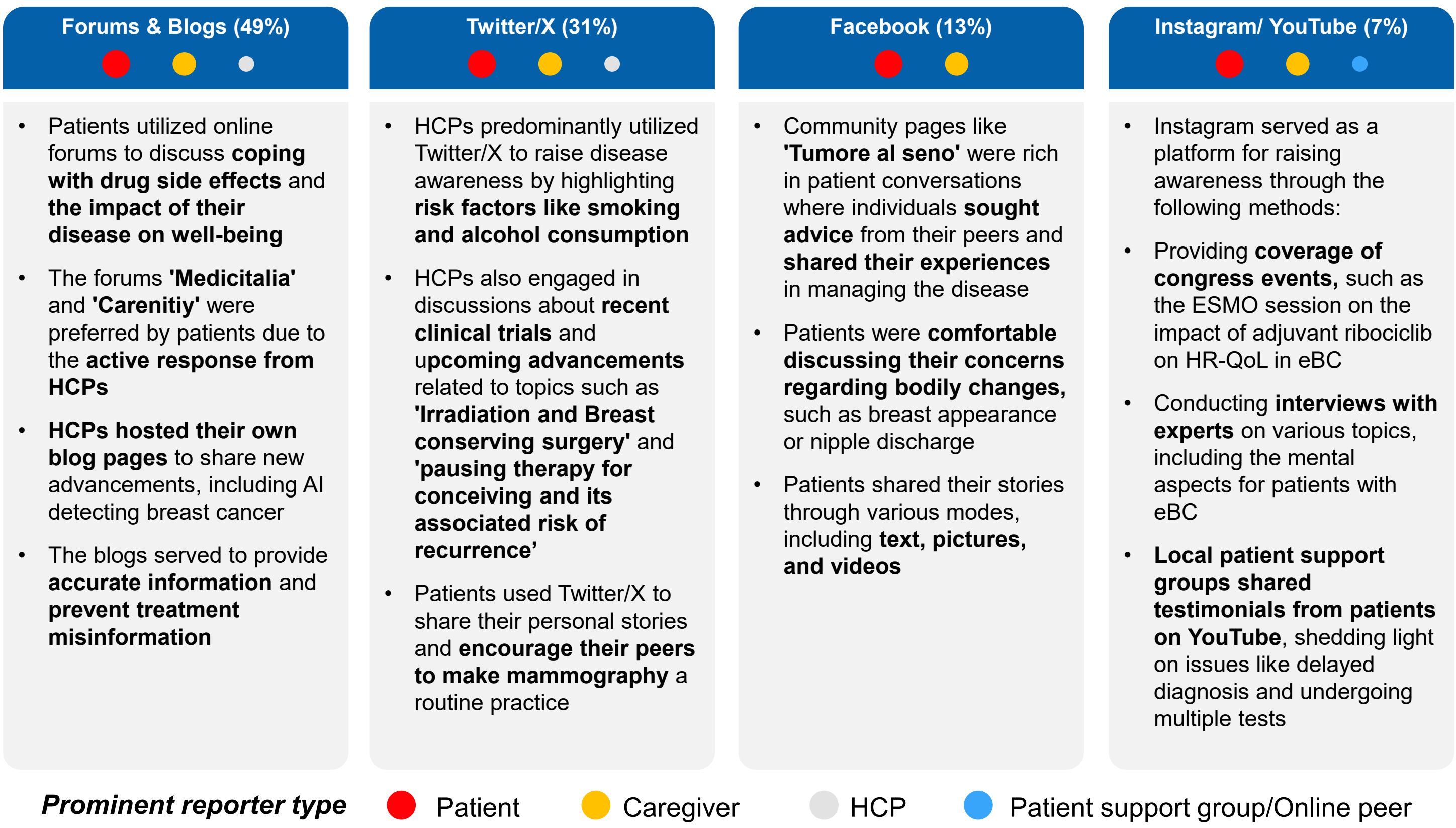


*N' denotes the number of posts; 'n' denotes the number of mentions of the specific attribute; HCP: Healthcare professional

Insights from analysis of social media channels

Patients used mainly forums and Facebook community pages for discussing their diagnosis and treatment journey. Healthcare professionals (HCPs) also actively participated on these forums and answered patient queries. Insights from various social media channels are provide in **Figure 3**.

Figure 3. Insights from various social media channels

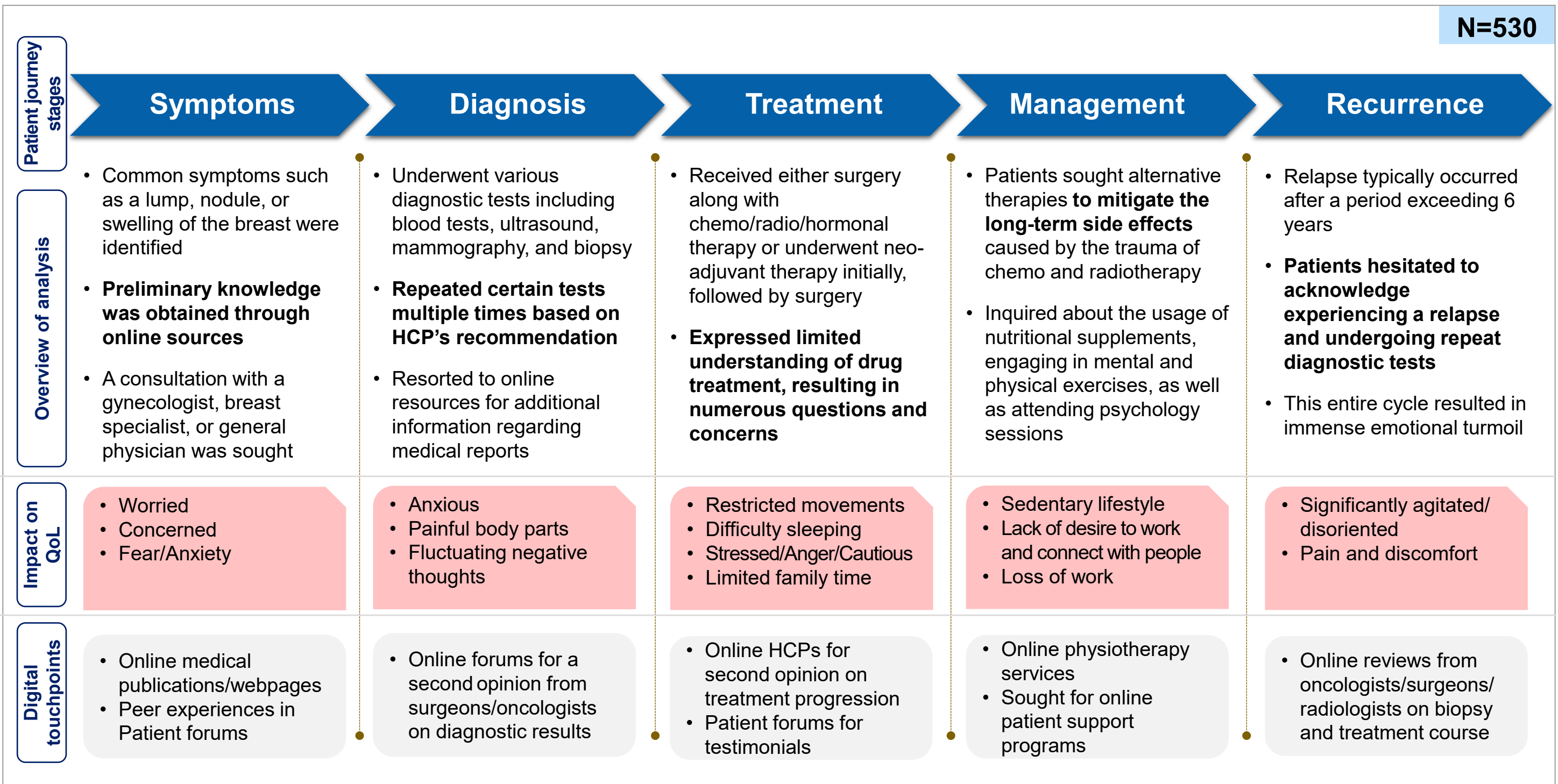


The size of the circle indicates the prominence of reporter types within respective social media channels. A larger circle size represents a greater number of posts

Insights from SML at various stages of eBC patient journey

Patients had limited depth in their knowledge to navigate the disease journey. They were active on online channels to seek peer experiences to overcome the challenges. Analysis of SML data helped to uncover the insights at various stages of patient journey starting from symptom identification to diagnosis, treatment, management and recurrence of the disease (**Figure 4**).

Figure 4. Patient journey with eBC



*N' denotes the number of posts; HCP: Healthcare professional; QoL: Quality of life

CONCLUSION

SML as a research methodology provided a unique opportunity for deeper understanding of experiences and concerns of patients with eBC, their caregivers, and HCPs. The findings will empower HCPs and researchers for enabling more patient-centric care and improved health outcomes.

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