Empowering Patients in Observational Research: Leveraging Data Insights for Sustained Engagement and Innovation

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Background & Purpose

Background

Real-world evidence (RWE) is essential in drug development, yet patient engagement in observational studies remains challenging:

- Most patients (85%) want access to their medical data and study results.
- 73% expect results to be returned in their preferred language and format (Getz et al., 2025).

Purpose

This study explores how returning research insights to participants ("sharebacks") influences engagement and participation in research

Methods

- Participants accessed their medical records and research insights via the PicnicHealth platform.
- Three patient-facing research summary campaigns ("sharebacks") were evaluated across multiple sclerosis (MS), Huntington's disease (HD), and early breast cancer (eBC) cohorts, along with two caregiver-facing sharebacks for Alzheimer's disease and a disease-agnostic group.
- Campaigns varied in:

70%

QUOTES

less than full time

of those working worked

- Delivery format (e.g., content type, opt-in status, monthly product emails)
- Content type (e.g., data dashboards, visualizations, summaries)
- Engagement metrics—including survey completion (SC), email open rate (EOR), and summary click rate (SCR)—were analyzed.
- Qualitative interviews were conducted with HD participants to explore perceptions of the shareback experience.

Patient Insights on Research Sharebacks

We interviewed patients and shared a feedback survey to

interest in sharebacks. All interviewees and survey

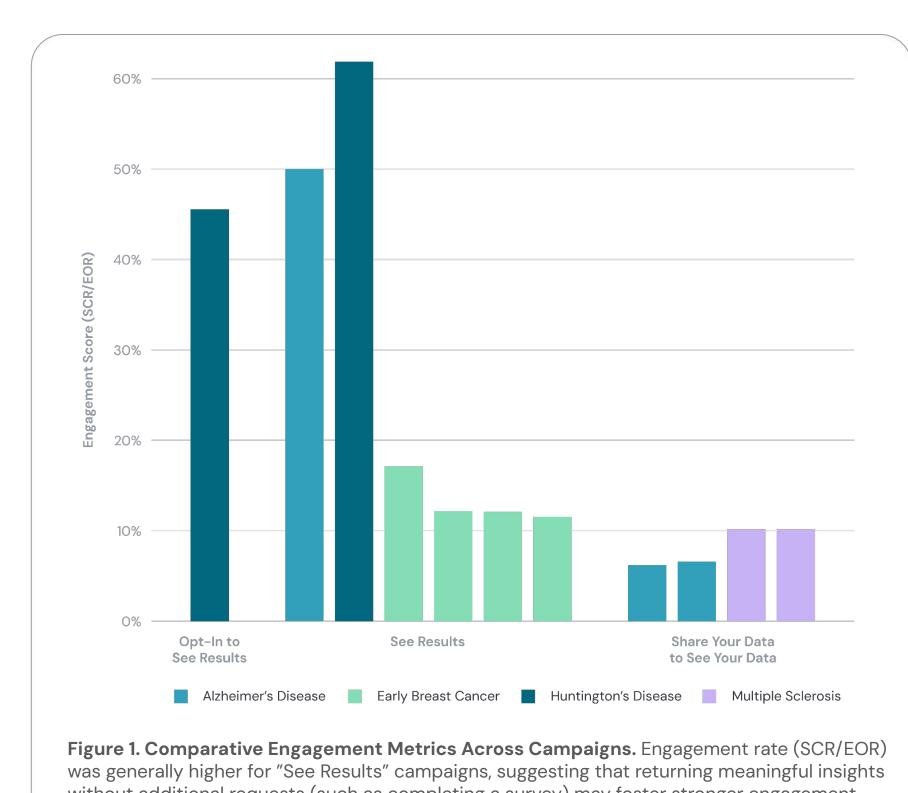
respondents indicated a desire for more, highlighting

gather insights. Participants expressed strong

their potential to increase engagement.

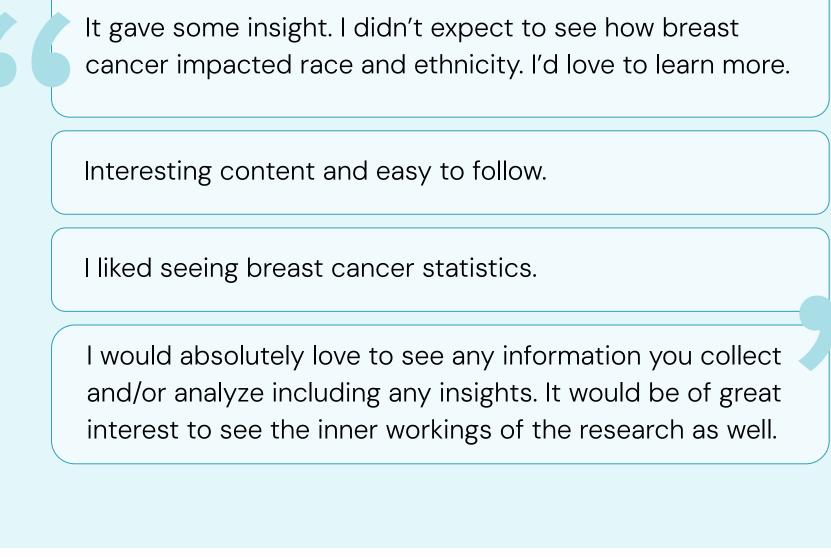
Table 1. Shareback campaigns.					
Cohort	Туре	Shareback Delivery Type	Total Emails Sent	Open Rate (EOR)	Click Rate (SCR)
Alzheimer's Disease	Click to See Results	Interactive Dashboard	122	68.9%	34.4%
Alzheimer's Disease	Share Your Data to See Your Data	Interactive Dashboard	370	31.3%	1.9%
Alzheimer's Disease	Share Your Data to See Your Data - Reminder	Interactive Dashboard	328	23.7%	2.6%
Multiple Sclerosis	Share Your Data to See Your Data	Interactive Dashboard	3425	28.2%	2.9%
Multiple Sclerosis	Share Your Data to See Your Data - Reminder	Interactive Dashboard	2637	29.6%	3.0%
Huntington's Disease	Opt-In to See Results	Static PDF	444	49.1%	22.4%
Huntington's Disease	Attached Results in PDF	Static PDF	95	83.3%	51.6%
Early Breast Cancer	See Results on Research Dashboard	Static PDF Delivered In-app	4993	37.7%	6.5%
Early Breast Cancer	See Results on Research Dashboard - Reminder	Static PDF Delivered In-app	4842	35.0%	4.3%
Early Breast Cancer	See Results on Research Dashboard (Wave 2)	Static PDF Delivered In-app	405	30.9%	3.7%
Early Breast Cancer	See Results on Research Dashboard (Wave 2) - Reminder	Static PDF Delivered In-app	404	30.1%	3.5%

Completion Date



without additional requests (such as completing a survey) may foster stronger engagement.





Acknowledgements

We thank the patients and caregivers who contributed their time and insights to this research.

Disclosures

Authors are employees of PicnicHealth

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occurred within two days of email delivery.

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Conclusion

the email being sent.

Monthly Product Emails

more detailed sharebacks.

Results

method.

"See Results" Campaign

Shareback Strategies and Engagement Outcomes

Campaigns that featured interactive visuals and clearly

participant actions such as completing surveys and

interacting with the app. Engagement was shaped by

This strategy emphasized sharing research insights

significantly increased app logins and dashboard

"Share Your Data to See Your Data" Campaign

These campaigns included a direct call-to-action

encouraging participants to complete a survey in

Alzheimer's caregivers: 5x increase (Figure 3b)

in substantial increases in survey participation:

MS participants: 3.6x increase (Figure 3a)

without requesting additional input from participants. It

interactions (Figure 2; blue and mint lines), but did not

meaningfully impact survey response rates (purple line).

exchange for personalized data. This approach resulted

The highest response rates occurred within 48 hours of

Caregiver-focused sharebacks embedded in monthly

rate (data not shown). Despite the lower response rate,

qualitative feedback was largely positive—participants

valued receiving updates and expressed interest in

product emails had a modest 4% survey completion

Different shareback approaches (Table 1) led to

measurable differences in patient engagement.

communicated value were more likely to drive

content type, call-to-action clarity, and delivery

Returning research insights increases engagement and supports participant-centered research design. In addition to demonstrating the value of sharebacks, our findings highlight the importance of timing and framing in driving action.

- Larger, passive engagement can be achieved with appealing content alone
- Meaningful participation requires clear value exchange and calls-to-action
- Qualitative feedback suggests non-respondents may still find value in receiving results
- Future campaigns should:
- Tailor content to study interests and needs
- Deliver easy-to-understand visual content
- Include direct calls-to-action
- Test delivery channels and formats more directly



Figure 3. Survey Completions Following "Share Your Data to See Your Data" Campaigns. Email campaigns with a call-to-action to complete a survey in exchange for personalized insights led to increased survey completions in two cohorts. In the Multiple Sclerosis

(MS) group, completions rose 3.6-fold (17 before vs. 61 during and after the campaign). Among Alzheimer's caregivers, the Resource Utilization in Dementia (RUD) survey completions increased fivefold (2 before vs. 10 during and after). The largest response spikes