

# Are plain language summaries (PLS) reaching patients? Perspectives from a UK type 2 diabetes study.

## Conclusions

- Our user-centred research suggests that the awareness of PLS (as either a type of information or the terminology "PLS") is low among UK patients with type 2 diabetes (T2D) although many patients deemed this type of information to be useful.
- Patient experience of PLS appeared to be positive overall; patients thought PLS were relatively easy to find and easy to understand.
- Implementing strategies to optimise patient awareness, accessibility, and discoverability of PLS, such as consistent nomenclature for search engine optimisation and trusted dissemination channels, is key to improving PLS utility and meeting patient needs.

## Introduction

- We know that patients readily search for information via the internet,<sup>1</sup> and with increasing patient inclusion in the drug development process,<sup>2,3</sup> the accessibility of trusted health-related information by patients is key to improved understanding and health outcomes.



• PLS are one kind of resource that is increasingly available online that can help patients easily understand clinical research.<sup>1,4</sup>



• Recent research and subsequent guidance have provided recommendations in making PLS user-friendly and comprehensible.<sup>5,8</sup> Nevertheless, there appears to be low awareness of PLS among patients<sup>9</sup> and little user-centred research in this area.



The objective of this study was to understand how patients search for information relating to their condition, including PLS, in order to improve awareness. As a community, we need to know where patients are looking for information and what search terms patients are using to find that information.

## Research design and methods

- Patients who had been diagnosed with T2D by a healthcare professional (HCP) and who had actively sought information online about their condition were recruited from a national UK database.

Patients with a chronic, common disease were chosen for ease of sampling:

- Anticipated broad patient population
- Range of experience accessing online information
- Active field of research with multiple treatments

- Patients completed a 15-minute online mixed-method survey during August and September 2023 and received an honorarium at fair market value principles for their time.
- Data are presented descriptively; comparisons were made across categories using complement testing (to examine whether two sets of data are significantly different by assessing the elements that are unique to each set).

- Data interrogation was conducted to determine the most meaningful way to categorise the data. Subsequently, data were categorised by time since diagnosis (within the last year, 1–5 years ago, and 6+ years ago) and by those who had recalled reading/using a PLS vs. those who had not. During analysis, we also made comparisons across several other data cuts to explore the data for meaningful insights.

## Results

Overall, 200 patients completed the online survey. Patient demographics are shown in Table 1.

### Education level

Education level	N=200
Secondary school up to 16 years	23%
Higher/secondary/further education	21%
College or university	37%
Postgraduate degree	20%

### Ethnic group

White	92%
Asian/Asian British	5%
Black/African/Caribbean/Black British	3%
Mixed/Multiple ethnic groups	1%
Other ethnic group	1%

### Patient type

Patient	86%
Patient advocate	1%
Patient with scientific background	13%
Patient advocate with scientific background	1%

### Language preference

English	100%
Other	0%

## General information searching behaviours

Figure 1a. Most commonly searched-for topics by patients online

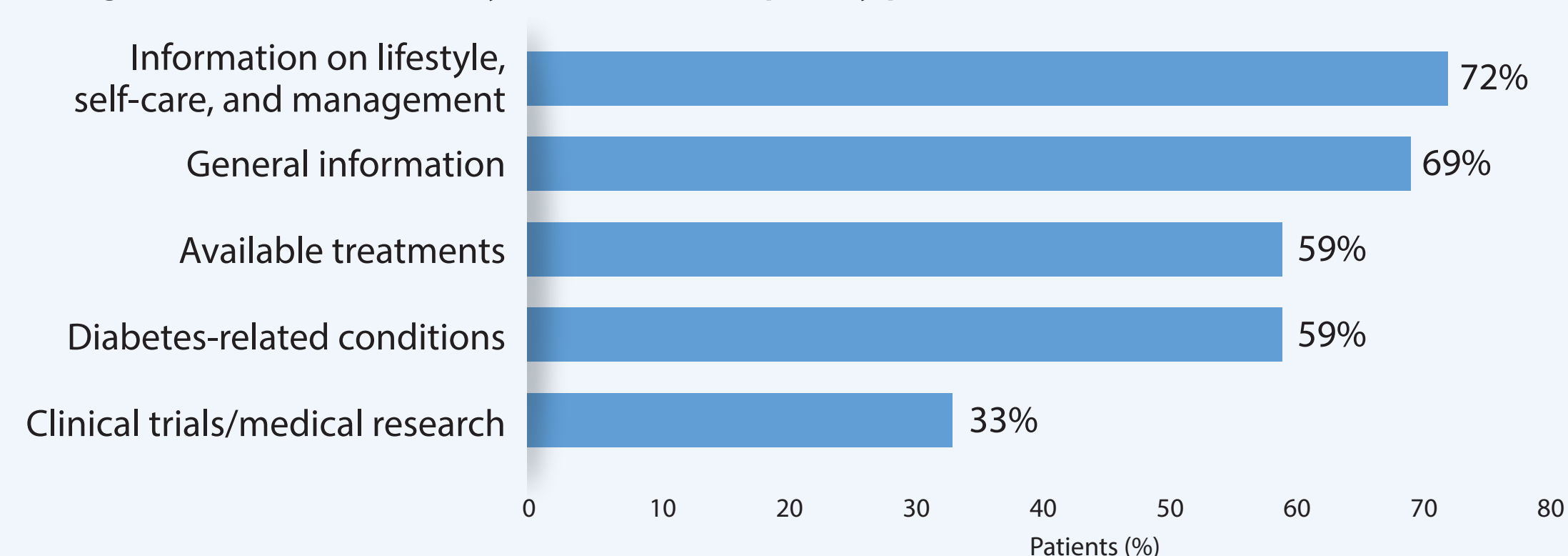
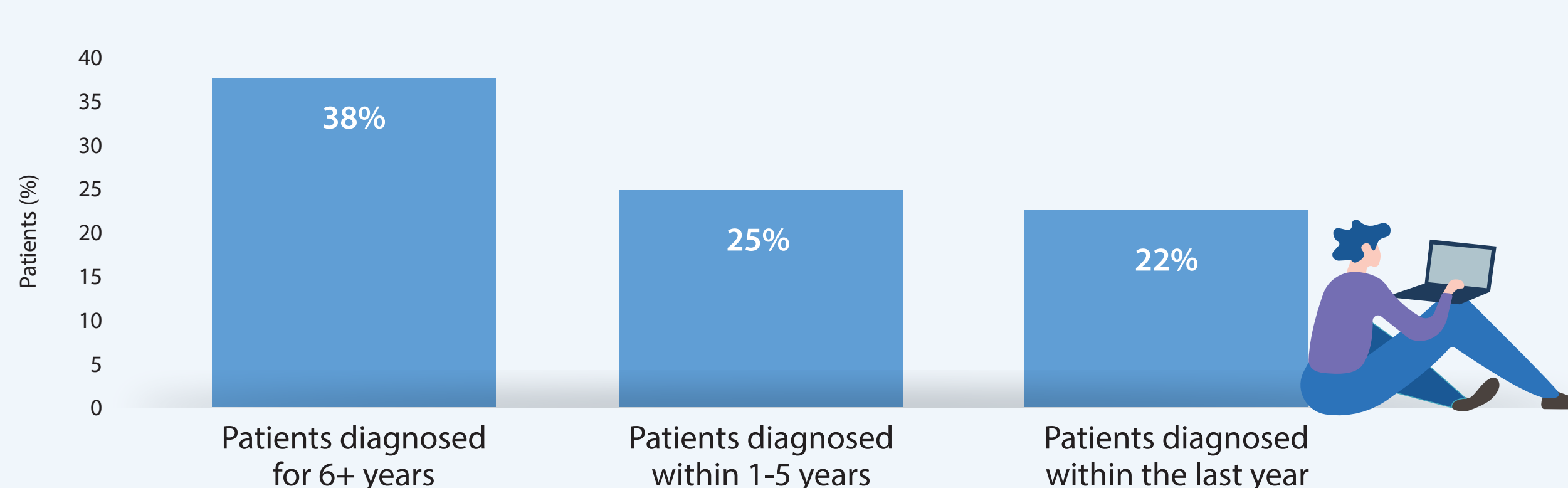


Figure 1b. Information relating to clinical trials/medical research was searched for by a higher percentage of patients whose time since diagnosis was longest (6+ years) compared with those with a more recent diagnosis



- 60% of patients ranked accessing information from an HCP as their most used channel, followed by 49% online (search engine/website).
- When looking for information online, 80% used diabetes-specific websites, 78% used search engines, and 12% used medical journals.

## PLS awareness is low

- Having been provided with a description of a PLS within the survey, fewer than 4 in 10 patients (38%) were aware of and had read a PLS.
- Of those who did not recall previously reading or using a PLS (n=124), only 11% had come across or had heard about them.

- No patients used "PLS" or "plain language summary" as a term when prompted to type what to search if they wanted this information, although "summary" was used in 5.5% of the respondents' answers.

### Of those who were aware of and had read a PLS (n=76):

58% accessed them via a search engine

47% accessed them via an NHS website

22% had had them recommended via an HCP

75% of these patients said PLS were easy/very easy to find, 80% stated they were easy/very easy to understand, and 82% stated they were fairly/very useful.

- Those who had been diagnosed longest (6+ years, n=117) were significantly more likely to prefer a scientific platform/journal website (9%) as the best way of accessing a PLS vs. 2% of those diagnosed within the past 1–5 years (n=65).

### Of those who had not used or heard of a PLS (n=124):

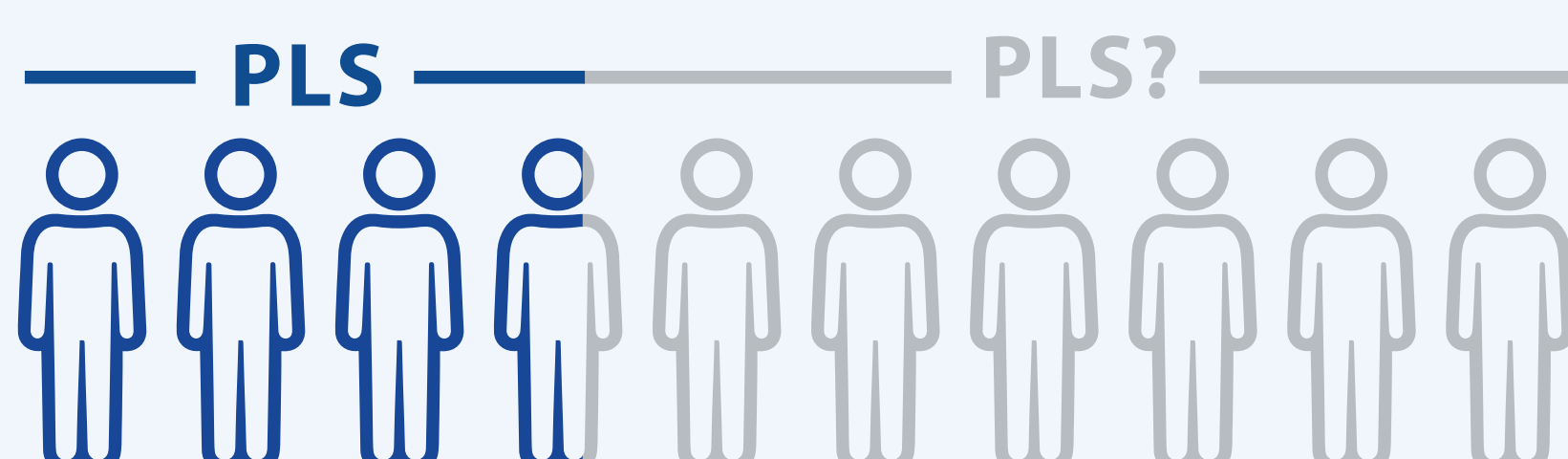
63% stated that a PLS would be fairly/very useful

75% expected to find a PLS via an NHS website

63% expected to find a PLS via a search engine

44% expected to be recommended a PLS via an HCP

When asked why they had not used or accessed this type of information online, 51% stated there was nothing that would prevent them from doing so.



## Plain language summaries are useful

- A high percentage of patients (89%) felt that PLS were or would be useful in improving their understanding of diabetes, in having conversations with HCPs (86%) and in the management of their condition (85%).

## Trusted information sources include the NHS and HCPs

- Overall, for both those who had and those who had not previously read a PLS:

99% NHS websites

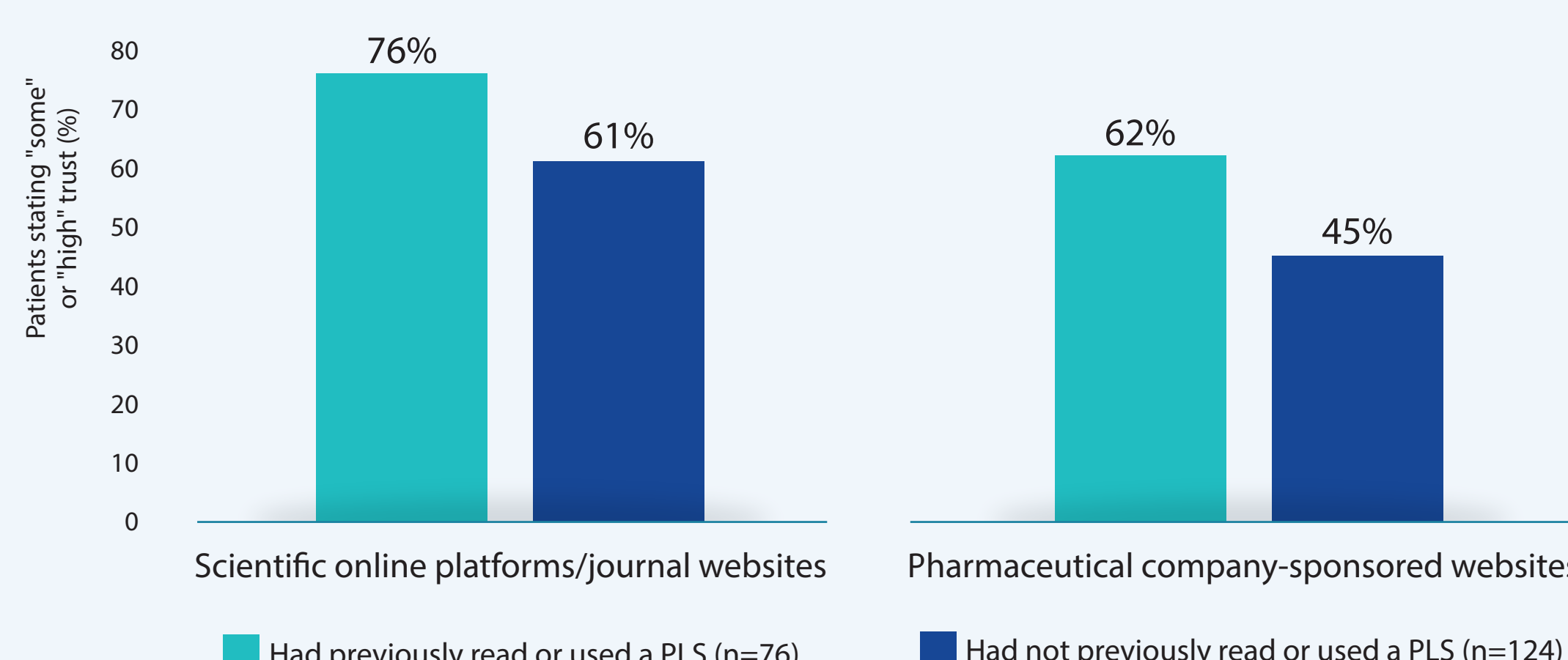
96% HCP recommendations

67% Scientific online platforms/journal websites

52% Pharmaceutical company-sponsored websites

\*Those stating "some" or "high" trust

Figure 2. Scientific online platforms/journal websites and pharmaceutical company-sponsored websites were trusted by a higher percentage of patients who had previously read or used a PLS vs. those who had not



Please access the QR code for a short poster presentation and further details about the study



## References

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## Author contributions

All authors developed the research hypothesis; RB and STu designed and conducted the survey, with input from LS, EM, AP, CH, and STH; LS and EM developed first drafts of the abstract and poster, with all authors actively contributing to subsequent drafts and approving final drafts of both materials.

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