Positive and negative reasons for sickness presenteeism in Norway and Sweden: a cross-sectional survey

Vegard Johansen, Gunnar Aronsson, Staffan Marklund

ABSTRACT

Objectives: This article investigates various reasons for sickness presenteeism (SP), that is, going to work despite illness. The research questions asked is: What are the main reported reasons for SP in Norway and Sweden?


Participants: A random sample of people aged between 20 and 60 years was obtained from complete and updated databases of the Norwegian and Swedish populations. A postal questionnaire was sent to the selected individuals, with response rate 33% (n=2843). 2533 workers responded to questions about SP during the last 12 months.

Primary and secondary outcome measures: The article informs about the distribution of reasons for SP in Norway and Sweden, selected by the respondents from a closed list. The article also examines which factors influence the most often reported reasons for SP.

Results: 56% of the Norwegian and Swedish respondents experienced SP in the previous year. The most frequently reported reasons for SP include not burden colleagues (43%), enjoy work (37%) and feeling indispensable (35%). A lower proportion of Norwegians state that they cannot afford taking sick leave adjusted OR (aOR 0.16 (95% CI 0.10 to 0.22)), while a higher proportion of Norwegians refer to that they enjoy their work (aOR=1.64 (95% CI 1.28 to 2.09)). Women and young workers more often report that they do not want to burden their colleagues. Managers (aOR=2.19 (95% CI 1.67 to 2.86)), highly educated persons and the self-employed more often report that they are indispensable.

Conclusions: Positive and negative reasons for SP are reported, and there are significant differences between respondents from the two countries. The response rate is low and results must be interpreted with caution.

Study design: Cross-sectional study.

INTRODUCTION

Sickness presenteeism (SP) refers to going to work despite illness. This concept has been a subject of steadily increasing interest since it emerged in the 1990s. Several studies in different countries and among different occupational groups have shown that large shares of employees have gone to work when they ought to stay at home for health reasons. A British study indicated that more than 80% of general practitioners, hospital physicians and senior accountants engaged in SP and a similar proportion of SP was reported in a Norwegian study of physicians. More than 70% of the Danish core work force reported one or more episodes of SP in a year, and in a study of a Canadian public service organisation, more than 70% had SP. In the Netherlands, about 60% of a national sample of workers had attended work even when they felt sick. Finally, 50% of the respondents in a Swedish labour force survey reported SP in 1997, and in a study from 2000, the proportion was 70%.

Previous studies on SP have focused on three issues: the association between SP and sickness absence (SA), the consequences of SP on the productivity of organisations and the causes of SP. First, the association between absenteeism and presenteeism is strongly positive. Moreover, research results indicate that SP can cause serious health problems at a later stage and that several episodes of SP during the previous year are a risk factor for future SA.

Second, American researchers have investigated the consequences of SP on the productivity of organisations. It is claimed that SP causes much more aggregate productivity loss than SA, and that managing SP

Strengths and limitations of this study

- The sample is quite large: 2533 workers of which 1408 workers experienced sickness presenteeism (SP).
- The respondents could choose from 12 positive and negative reasons for SP.
- The response rate is low, and the responses to SP may suffer from recall bias.
effectively could be a competitive advantage.\textsuperscript{17} It seems that SP can have an impact due to reduced work capacity, but the effects on the quantity and quality of the work performed by personnel with SP should be subject to further investigation.

Third, the causes of SP have been investigated in various Nordic studies. A Swedish study identifies different types of factors related to SP, such as reporting variable/rather poor/poor health status, facing personal financial demands, and work-related demands such as staff replacement and time pressure.\textsuperscript{11} A Finnish study concludes that SP is sensitive to working-time arrangements, and that those working in the private sector report SP more often than those in the public sector.\textsuperscript{7} A Norwegian study argues that there is a positive correlation between job satisfaction and rates of SP.\textsuperscript{7} In a Danish study it is found that poor health, heavy work, work versus family conflicts, social support, latitude in decision-making and obesity are characteristics among those reporting SP.\textsuperscript{4}

Most empirical studies on SP have focused on negative presence factors such as health problems, economic considerations, job insecurity, high workload, inability of others to take over duties, inability to adjust work demands, the need to complete unfinished jobs after returning from sick leave, negative sanctions from colleagues or management, workplace culture, work ethics, feelings of moral obligation and job satisfaction.\textsuperscript{1–3, 6, 7, 11, 12, 18, 19} The present study investigates ‘positive’ presence factors (eg, ‘enjoy my work’, ‘going to work was beneficial for my health’, etc) and ‘negative’ presence factors (eg, ‘can’t afford taking sick leave’, ‘I am worried about being laid off’, etc).\textsuperscript{12, 19} Using data from a cross-country study, this article describes the distribution of 12 reasons for SP in Norway and Sweden. The research question asked is: What are the main reported reasons for SP in Norway and Sweden?

**METHODS**

This study uses data from a survey in Norway and Sweden from 2011. The purpose was to study “a normal population’s” attitudes towards and experiences with SA and SP. We carried out a postal survey since this was the only financially viable option for our cross-country study. The Norwegian survey was administered by Eastern Norway Research Institute and the Swedish survey was administered by ScandInfo. The data collection was part of a research project called ‘Social factors contributing to sickness absence’ (SOFAC) funded by the Research Council of Norway. The Research Council of Norway had no role in study design; in the collection, analysis and interpretation of the data; in the writing of the article or in the decision to submit for publication. The data collection took 2 months; it began in the beginning of March and ended in the beginning of May.

In both countries the process of selecting the gross sample was simple random sampling from the population between 20 and 60 years of age. The potential participants included people working full-time and part-time, on parental leave and on sick leave, as well as unemployed people, students and receivers of disability pension. The selection of the gross sample in Norway was carried out by Bisnode Match It, and they have a complete and updated database of the Norwegian population. The selection of the gross sample in Sweden was carried out by ScandInfo, and they have a complete and updated database of the Swedish population. A total of 4900 Norwegians were asked to participate in the survey and 1594 responded. In total, 3800 Swedes were asked to participate and 1249 responded.

The information letter stated that the aim of the survey was to map experiences and attitudes towards sick leave among representative samples in Norway and Sweden. All respondents were anonymous to the research team. Direct personal data were not collected, and none of the respondents could be identified through a combination of background information since we asked few background variables. Finally, the information letter included information about email and telephone to the researchers in the project.

The questionnaire was designed particularly for the SOFAC project. In the pilot study in Norway, respondents used about 15 min to fill out the questionnaire. The questionnaire included questions on a few background variables, about the employment situation, experiences with sick leave, experiences with SP, attitudes towards sick leave in general and attitudes towards sick leave due to psychological illness and skeletal muscular disease. The full questionnaire is available on request to the research team.

Statistics Norway and Statistics Sweden are sources of factual information about the populations in Norway and Sweden, and distributions of sex, age, immigration, education level, county, centrality/peripherality and municipality size are presented annually and can be accessed online.\textsuperscript{20, 21} To test for non-response bias, we compared known values from the population between 20 and 60 years of age (potential participants) with the values that prevail in the subgroup that answered the questionnaire. It is positive that the Norwegian and Swedish net samples were representative with regard to the proportion of immigrants, as well as representative of regional dimensions such as the size of municipality, county and centrality/peripherality. The Norwegian net sample is representative with regard to gender, while there is an over-representation of women in the Swedish sample. In the net samples for Norway and Sweden, those in the age group 40–60 are over-represented and those between 20 and 39 years are under-represented. The data were weighed according to age and gender in order to remedy the under-representation of young workers and men. The data are weighed according to country of origin, so the Norwegian and Swedish samples have the same influence.

Questions about SP were answered by 2533 respondents who were either working, in parental leave or in SA. Frequency of SP (the distribution of SP episodes)
was measured by the following question: “During the last 12 months, did you go to work despite feeling so ill that you should have taken sick leave?” A total of 1408 respondents reported SP, and they selected one or more alternatives from 12 options in response to the question: “Why did you go to work although you were ill?” The response options were chosen by the research team and based on former studies about SP and SA. Some of these reasons were negative (options 1 to 5), some were positive (options 8 to 11) and some can be interpreted as positive and negative (options 6 and 7).

Option 1 Because I am worried about being laid off.
Option 2 Because I do not want to be considered lazy or unproductive.
Option 3 Because I do not want to be suspected of cheating.
Option 4 Because I am ashamed of being ill.
Option 5 Because I can’t afford taking sick leave.
Option 6 Because nobody else is able to carry out my responsibilities.
Option 7 Because I do not want to burden my colleagues.
Option 8 Because I enjoy my work.
Option 9 Because going to work was beneficial for my health.
Option 10 Because I want to maintain my social network.
Option 11 Because my pride depends on not taking sick leave.
Option 12 There were other reasons that I went to work.

Binomial logistic regression has been used to detect which factors influence the four most often reported reasons for SP. Binomial logistic regression is suitable for predicting the outcome of a categorical criterion variable that can take on only two possible outcomes. Nagelkerke $R^2$ is an often used version of the coefficient for determination for logistic regression. Nagelkerke $R^2$ ranges from 0 to 1, and it provides a gauge of the substantive significance of the model.

The independent variables are selected from former studies about factors influencing SP, and they include gender, age, migratory status, education, income, position, type of employment, and country. Some respondents did not answer all the independent variables, and 1270 respondents are included in the binomial logistic regression analyses. In addition to having proven importance in previous studies of factors related to SP, the independent variables are included in the multivariate regression models since they have statistical significance for one or more of the dependent variables (ie, the four most often reported reasons for SP). All these variables were included in the model-building process:

- Education: divided between high educational attainment (reference category, Bachelor degree or higher) and low educational attainment.
- Income: divided between low income (reference category, 299 000 NKr/SKr), and medium/high income (300 000+ NKr/SKr). 300 000 NKr is about €36 000 and 300 000 Skr is about €33 000.
- Type of employment: divided between employee in private sector (reference category), employee in public sector and self-employee.
- Employment position: divided between those who do not have a management position (reference category), and middle management/executives.

The research was carried out in accordance with the rules set by the committees for medical research ethics in Norway and Sweden, was approved by the Norwegian Social Science Data Services and conforms to the principles embodied in the Declaration of Helsinki.

RESULTS

The response rate was 33% in both countries. In the past 12 month period, 56% of the Norwegian and Swedish respondents replied that they had gone to work even though it would have been reasonable to take sick leave. In total, 37% reported one/two episodes of SP and 19% reported three or more episodes. In the question about reasons for SP, 92% of the respondents marked one option, 30% marked two options and 31% marked three or more options, and 7% referred to ‘other reasons’.

Table 1 shows the distribution of reasons for SP in Norway and Sweden. In total, 43% report going to work while ill because they did not want to burden colleagues with their sick leave, 37% report that they enjoy their work and 35% report that nobody else can carry out their responsibilities. Some respondents report that they practiced SP because they could not afford taking sick leave (21%), that their pride depended on not taking sick leave (17%) or that they did not want to be considered lazy or unproductive (16%). Small proportions of respondents reported health benefits (11%), suspected for cheating (8%), shame (6%), maintaining social network (4%) and risk for being laid off (4%).

There are major differences between Norwegian and Swedish respondents with regard to reasons for SP. Swedish respondents are over-represented among those practicing SP because they cannot afford to be on sick leave (36% in Sweden and only 6% in Norway). Norwegian respondents are over-represented among those pointing to various ‘benefits’ of going to work despite illness, such as enjoying their work (44% in Norway and 30% in Sweden), their pride depends on not taking sick leave (24% vs 11%) and going to work is beneficial for their health (17% vs 4%). In addition, Norwegian respondents are over-represented with regard to concern of being considered lazy or unproductive (21% vs 12%).

Table 1  Reported reasons* for sickness presenteeism during the past 12 months among random samples of Norwegian and Swedish workers between 20 and 60 years of age, 2011

<table>
<thead>
<tr>
<th>Reasons for SP</th>
<th>Sweden (n=686)</th>
<th>Norway (n=722)</th>
<th>Total (n=1408)</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Because I do not want to burden my colleagues</td>
<td>41</td>
<td>46</td>
<td>43</td>
<td>0.059</td>
</tr>
<tr>
<td>Because I enjoy my work</td>
<td>30</td>
<td>44</td>
<td>37</td>
<td>0.000</td>
</tr>
<tr>
<td>Because nobody else is able to carry out my responsibilities</td>
<td>36</td>
<td>34</td>
<td>35</td>
<td>0.404</td>
</tr>
<tr>
<td>Because I can’t afford taking sick leave</td>
<td>36</td>
<td>6</td>
<td>21</td>
<td>0.000</td>
</tr>
<tr>
<td>Because my pride depends on not taking sick leave</td>
<td>11</td>
<td>24</td>
<td>17</td>
<td>0.000</td>
</tr>
<tr>
<td>Because I do not want to be considered lazy or unproductive</td>
<td>12</td>
<td>21</td>
<td>16</td>
<td>0.000</td>
</tr>
<tr>
<td>Because going to work was beneficial for my health</td>
<td>4</td>
<td>17</td>
<td>11</td>
<td>0.000</td>
</tr>
<tr>
<td>Because I do not want to be suspected of cheating</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>0.689</td>
</tr>
<tr>
<td>Because I am ashamed of being ill</td>
<td>4</td>
<td>7</td>
<td>6</td>
<td>0.013</td>
</tr>
<tr>
<td>Because I want to maintain my social network</td>
<td>2</td>
<td>6</td>
<td>4</td>
<td>0.000</td>
</tr>
<tr>
<td>Because I am worried about being laid off</td>
<td>4</td>
<td>3</td>
<td>4</td>
<td>0.179</td>
</tr>
</tbody>
</table>

Figures are percentages and p value (χ² tests). The data were weighed according to age, gender and country of origin.

*The reported reasons for sickness presenteeism were selected by the respondents from a closed list in the questionnaire.

DISCUSSION

We have chosen to investigate which factors influence the four most often reported reasons for SP, as seen in table 1.

Table 2 shows four logistic regression models. Model I concerns factors related to why people report that they take SP because they cannot afford taking sick leave has the best fit of the four models (Nagelkerke R²=0.30). Significantly higher rates choosing this alternative include being a Swede, not having managerial responsibilities, having low education and having low income. It is important to note that the most influential variable in model I is ‘country’ and not the level of income. Model II is about indispensability, and it shows almost the opposite profile and the estimated fit is the second best (Nagelkerke R²=0.14). Norwegians, middle managers and executives, highly educated persons, those with medium/high income, self-employed and private employed, have reported this reason to a significantly higher degree. Models III and IV show relatively low degree of model fit (Nagelkerke R²=0.07 and 0.06, respectively). Model III concerning the option ‘do not want to burden my colleagues’ which was the most frequent reason given in Norway as well as in Sweden has been reported significantly more often among younger workers, among women, among natives and Western immigrants, among employees and among non-managers. Model IV concerns the option ‘because I enjoy my work’, and it was most frequently reported by natives, those with medium/high income and by Norwegians.

point to the benefits of going to work despite illness, while a higher proportion of Swedish respondents report economic consequences of SP. Although the sample is quite large, the results must be interpreted with caution since the list of options for SP is incomplete. Another concern is the low response rate. We could suspect that workers with strong opinions or knowledge or experiences with SA and SP have been more willing to spend time answering our questionnaire than those who do not. If workers having experienced SP are represented in a higher proportion in the sample, this could result in an overestimation of SP as compared with the situation in the population. Moreover, if the participants make a non-representative sample, this questions the distribution of reported reasons for SP. It should be noted that the distribution of SP is in accordance with prior studies of SP at the national level.1 8 10

A majority of the respondents in Norway and Sweden have experienced SP in the past year, and this finding is in accordance with former studies of SP.3 6 11 This study indicates that solidarity with colleagues, feeling indispensable and to enjoy the work are the highest reported reasons for SP. The results resemble studies in Denmark and the UK showing that consideration of colleagues is an often referred reason for SP.19 24 and a study in the UK indicating that SP occurs when work cannot wait or be delegated and could create extra work for colleagues.6 Some previous studies on SP have focused on negative presence factors1–3 6 7 11 12 18 19 24 but our empirical results indicate that negative presence factors (lazy, shame, laid off and cheating) are reported by few respondents.

We expected to find differences with regard to the reasons for SP in Norway and Sweden since the level of SA is presently much higher in Norway than in Sweden25 and there are profound differences between the two countries in attitudes towards SA.26 Moreover,
sickness benefits in Norway are more generous than Sweden: a sick-listed person in Norway receives full compensation of the loss of income from the first day for a maximum of 364 days, whereas in Sweden the first day of SA is not compensated and from the second day the employees receive 80% compensation of the loss of income for a maximum of 364 days within a frame of 450 days.27 28 Economic consequences of SA is the first day for a financial loss.

More than half of the workers in the study experienced SP in the previous year, but it might be objected that we do not know if there is a large variation between individual’s in terms of threshold to report ‘should have taken sick leave’. Future studies could investigate what symptoms people who experience SP refer to and whether there are large differences in the seriousness of their illness. Although the study indicates that differences in compensation system between the two countries, educational attainment and position are influential factors for the most common reasons for SP. Managers and highly educated persons are likely to have a high degree of control over their work tasks, to feel time pressure and to have supervisor responsibilities, and thus, they more often report that they practice SP because nobody else is able to carry out their responsibilities. Less educated persons, those with no management responsibilities and low income more often report that they cannot afford to take sick leave, illustrating that the financial loss of being absent has a greater impact on these groups. In contrast, persons with high income more often report that they practice SP because they enjoy their work. Women and young workers more often report that they practice SP because they do not want to burden their colleagues. These findings could be an indication of differences in working conditions, for example, that a higher share of women than men experience higher levels of cooperation or dependence in performing their work tasks. A competing explanation could be that women and young workers are simply more concerned with relations at work than men and older workers.

More than half of the workers in the study experienced SP in the previous year, but it might be objected that we do not know if there is a large variation between individual’s in terms of threshold to report ‘should have taken sick leave’. Future studies could investigate what symptoms people who experience SP refer to and whether there are large differences in the seriousness of their illness. Although the study indicates that differences in compensation system between the two countries, educational attainment and position are influential factors for the most common reasons for SP, further research is needed to understand and explain such differences, as well as the consequences of SP in a shorter and longer term.

Response rates tend to be very low for postal questionnaires.29 To increase the response rate, the length of the

Table 2  Factors of relevance to the four most often reported reasons for sickness presenteeism among workers between 20 and 60 years of age in Norway and Sweden, 2011

<table>
<thead>
<tr>
<th>Factors</th>
<th>Model I Because I can’t afford taking sick leave</th>
<th>Model II Because nobody else is able to carry out my responsibilities</th>
<th>Model III Because I do not want to burden my colleagues</th>
<th>Model IV Because I enjoy my work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (n=1270)</td>
<td>0.99 (0.98 to 1.00)</td>
<td>0.99 (0.98 to 1.00)</td>
<td>0.99** (0.98 to 1.00)</td>
<td>1.00 (0.99 to 1.01)</td>
</tr>
<tr>
<td>Male (n=660, 52%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Female (n=610, 48%)</td>
<td>0.79 (0.55 to 1.12)</td>
<td>0.88 (0.67 to 1.16)</td>
<td>1.75** (1.35 to 2.26)</td>
<td>0.95 (0.73 to 1.24)</td>
</tr>
<tr>
<td>Native (n=1128, 89%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Western (n=70, 5%)</td>
<td>1.67 (0.91 to 3.01)</td>
<td>0.89 (0.51 to 1.54)</td>
<td>1.02 (0.62 to 1.69)</td>
<td>0.54* (0.31 to 0.95)</td>
</tr>
<tr>
<td>Non-Western (n=72, 6%)</td>
<td>1.59 (0.89 to 2.86)</td>
<td>1.25 (0.73 to 2.11)</td>
<td>0.49** (0.29 to 0.84)</td>
<td>0.79 (0.47 to 1.34)</td>
</tr>
<tr>
<td>High education (n=437, 34%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Low education (n=833, 66%)</td>
<td>1.68** (1.16 to 2.44)</td>
<td>0.39** (0.30 to 0.52)</td>
<td>1.22 (0.93 to 1.58)</td>
<td>0.8 (0.65 to 1.11)</td>
</tr>
<tr>
<td>Medium/high income (n=819, 64%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Low income (n=451, 36%)</td>
<td>2.57** (1.81 to 3.65)</td>
<td>0.74* (0.55 to 0.99)</td>
<td>0.98 (0.74 to 1.29)</td>
<td>0.67** (0.50 to 0.89)</td>
</tr>
<tr>
<td>Private employment (n=686, 54%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Self-employment (n=134, 11%)</td>
<td>1.10 (0.65 to 1.84)</td>
<td>1.80** (1.20 to 2.69)</td>
<td>0.61* (0.40 to 0.93)</td>
<td>0.89 (0.59 to 1.34)</td>
</tr>
<tr>
<td>Public employment (n=450, 35%)</td>
<td>1.27 (0.88 to 1.85)</td>
<td>0.57** (0.42 to 0.77)</td>
<td>1.25 (0.96 to 1.64)</td>
<td>0.91 (0.69 to 1.20)</td>
</tr>
<tr>
<td>Non-management (n=874, 69%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Middle management/executives</td>
<td>0.54** (0.36 to 0.81)</td>
<td>2.19** (1.67 to 2.86)</td>
<td>0.73* (0.56 to 0.96)</td>
<td>1.13 (0.87 to 1.47)</td>
</tr>
<tr>
<td>(N=396, 31%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweden (n=618, 49%)</td>
<td>1.00</td>
<td></td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Norway (n=651, 51%)</td>
<td>0.16** (0.10 to 0.22)</td>
<td>0.76* (0.59 to 0.98)</td>
<td>1.18 (0.92 to 1.51)</td>
<td>1.64** (1.28 to 2.09)</td>
</tr>
<tr>
<td>Constant</td>
<td>-0.98</td>
<td>0.89</td>
<td>0.96</td>
<td>0.54</td>
</tr>
<tr>
<td>Nagelkerke R²</td>
<td>0.30</td>
<td>0.14</td>
<td>0.07</td>
<td>0.06</td>
</tr>
</tbody>
</table>

Adjusted OR values are shown with 95% CI and p value (**=significant at 0.01, *=significant at 0.05). The data were weighed according to age, gender and country of origin. N=1270.
questionnaire was kept quite short (4 pages and 60 questions), a postal follow-up including questionnaire was sent, the return envelope was prepaid and the information letter stressed the benefits of the study to society. The quality of postal addresses provided by Bisnode Match It and ScandInfo was good, since less than 300 letters were returned (5% of the gross sample). In retrospect, various strategies could have been considered to increase the response rate and improve the quality of our study: monetary or non-monetary incentives, personalised questionnaires and letters, contacting participants before sending the questionnaires and more than one follow-up.\textsuperscript{29}

It is difficult to make conclusions about the accuracy of our survey, and the responses to questions on SP might have been influenced by recall bias. Another issue of concern is response bias, and some studies have shown that employees tend to under-report their SA.\textsuperscript{30} It could be that data on SP suffer from under-reporting or over-reporting, but this study did not control for this possibility.

The fact that there are differences between Norway and Sweden where larger shares in Sweden and poor people claim that they use SP because they cannot afford to be on sick leave may indicate that the Swedish social security system is unable to cover all individuals with a health problem in an equal way. Still, it is important to be clear that other reasons than the social security system could matter for these differences. When respondents report that they practice SP because they enjoy their work, this may generally be seen as unproblematic. However, several studies have found that frequent use of SP may lead to future health problems\textsuperscript{4,12-14} and employers and occupational health services may therefore regard this as an early indicator of reduced productivity and later SA.

**Contributors** VJ, GA and SM were involved in writing the manuscript. They also designed and monitored data collection, and cleaned and analysed the data.

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