Suicide attempts and non-suicidal self-harm: national prevalence study of young adults

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Background
There are few prevalence studies of suicide attempts and non-suicidal self-harm (NSSH).

Aims
We aimed to estimate the prevalence of thoughts of NSSH, suicidal thoughts, NSSH and suicide attempts among 18- to 34-year-olds in Scotland.

Method
We interviewed a representative sample of young adults from across Scotland.

Results
We interviewed 3508 young people; 11.3 and 16.2% reported a lifetime history of suicide attempts and NSSH, respectively. The first episode of NSSH tended to precede the first suicide attempt by about 2 years. Age at onset of NSSH and suicide attempt was younger in females. Earlier age at onset was associated with more frequent NSSH/suicide attempts. Women are significantly more likely to report NSSH and suicide attempts compared with men.

Conclusions
One in nine young people has attempted suicide and one in six has engaged in NSSH. Clinicians should be vigilant, as suicide attempts and NSSH are relatively common.

Declaration of interest
None.

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Suicide attempts and self-harm are major public health concerns associated with death by suicide. Despite the increased focus on these phenomena, there is still a lack of consensus about how best to conceptualise them. Some argue that suicide with suicide intent (i.e. a suicide attempt) is distinct from self-harm without suicidal intent (i.e. non-suicidal self-injury, NSSI or non-suicidal self-harm, NSSH), whereas others argue that the motives underpinning self-harm are multiple and fluid, and others still view them as being on a continuum. Although the rates of suicide are recorded internationally, internationally representative large-scale studies to report the prevalence of thoughts of NSSH as well as suicide attempts (see also Mars et al.8). Although both types of studies are important, the adolescent findings cannot be generalised to older age groups and the hospital-linkage studies tell us little about suicide attempts and NSSH in the community. Indeed, given that the majority of people who think about or attempt suicide do not receive treatment, the generalisability of hospital-based linkage studies is limited. To address these evidence gaps, we conducted the Scottish Wellbeing Study, a nationally representative interview-based survey of young adults aged 18–34 years. We targeted the 18– to 34-year-old age group because although suicide attempts and NSSH seem to be common among young adults, we know relatively little about their prevalence in this age group.

Prevalence rates
Although the rates of suicide are recorded internationally, nationally representative studies of the prevalence of suicide attempts and NSSH remain scarce. Among adolescents in the USA, the prevalence of suicidal ideation and suicide attempts is estimated to be 12.1 and 4.1%, respectively. Data from the World Mental Health Surveys across 17 countries suggest the cross-national prevalence of suicidal ideation is 9.2% and suicide attempts to be 2.7%. The European Study of the Epidemiology of Mental Disorders reported the adult lifetime prevalence of suicidal ideation and suicide attempts to be 7.8 and 1.3%, respectively. In Germany, the lifetime prevalence of NSSI was found to be 3.1% in a nationally representative sample. In England, the most recent Adult Psychiatric Morbidity Survey (APMS) found that, across their lifetimes, 20.6% of respondents had thought about taking their own life, 6.7% had made a suicide attempt and 7.3% had engaged in self-harm without suicidal intent. The APMS is one of the only nationally representative large-scale studies to report the prevalence of NSSH as well as suicide attempts (see also Mars et al.8).

For the most part, large-scale research has focused on school-based studies of adolescent self-harm2–4, and monitoring or register-based/linkage studies of hospital-treated self-harm. Although both types of studies are important, the adolescent findings cannot be generalised to older age groups and the hospital-linkage studies tell us little about suicide attempts and NSSH in the community. Indeed, given that the majority of people who think about or attempt suicide do not receive treatment, the generalisability of hospital-based linkage studies is limited. To address these evidence gaps, we conducted the Scottish Wellbeing Study, a nationally representative interview-based survey of young adults aged 18–34 years. We targeted the 18– to 34-year-old age group because although suicide attempts and NSSH seem to be common among young adults, we know relatively little about their prevalence in this age group.

Current study
This is the first nationally representative population-based prevalence study of suicide attempts and NSSH in young adults ever conducted in the UK. As Scotland has a higher suicide rate than England but both have similar rates of adolescent self-harm, it is important to establish whether the rates of suicide attempts and NSSH diverge in young adulthood. Given that some individuals engage in both behaviours, we also recorded the prevalence of the cooccurrence of suicide attempts and NSSH. In summary, this study aimed to estimate the prevalence of thoughts of NSSH, suicidal thoughts, NSSH and suicide attempts among 18- to 34-year-olds in Scotland.

Method
Study design, setting and participant recruitment
This is a cross-sectional study. Participant recruitment was conducted by Ipsos MORI, a social research organisation. We recruited a representative sample of young people aged 18–34 years from across Scotland to the Scottish Wellbeing Study. We employed a
sample quotas. Although quota sampling uses quotas, full-time workers were still under-represented in the sample and the weights were increased to correct for this. However, the weights increased the standard errors of estimates by 1%, see Appendix 1). All analyses were conducted with the weights on.

Missing data

As the data were collected via interview, most of the missing data were due to participants declining to answer a question by selecting ‘would rather not say’. There were very few respondents with missing data on the lifetime NSSH (n = 39, 1.1%) or suicide attempts (n = 43, 1.2%) variables. In a small number of cases (n = 5) where a respondent indicated history of NSSH or suicide attempts but had missing data on the other variable, this was included as NSSH only or suicide attempt only (for the completed variable). Obviously, there is the possibility that these people had engaged in both behaviours, but we do not know for certain.

Results

Sample and participant characteristics

A total of 3508 young people were interviewed between 25 March 2013 and 12 December 2013. Over half (50.6%) of the respondents were male and 37.0% were aged 18–23 years, with 35.9 and 27.1% aged 24–29 and 30–34 years, respectively (see Table 1). The majority of the sample was White (93.8%) and 83% of participants were not married. Just over half were in full-time employment, one in five was (19.1%) in full-time education and 10% were unemployed. A total of 49.5% of participants lived in rental accommodation, with the majority of the remainder either owning their own home (24.1%) or living with parents/relatives (23.3%).

Prevalence of suicidal thoughts, suicide attempts, self-harm thoughts and self-harm

Overall, 11.3 and 16.2% of the total sample reported a lifetime history of suicide attempts and NSSH, respectively (see Table 2). More than 20% reported lifetime suicidal thoughts, 2.4% reported that they last thought about suicide in the past week and 10.4% reported they last thought about suicide in the past 12 months. Further, 16% reported thoughts of NSSH at some stage in their lives, 1.7% reported that they last thought about NSSH in the past week and 7.3% reported they last thought about NSSH in the past 12 months. Very few respondents (0.3%) reported that they had last attempted suicide in the past week and 2.7% reported their last attempt in the past 12 months. Approximately 1% (1.1%) of respondents reported that their last NSSH episode was in the past week with 4.8% reported their most recent episode within the past 12 months (all of the past 12 month rates include the past week rates).

Approximately 10% of respondents (9.8%; 95% CI = 8.9–10.8%) engaged in NSSH only, 4.8% (95% CI = 4.2–5.6%) had attempted suicide only and 6.5% (95% CI = 5.7–7.3%) had attempted suicide and engaged in NSSH (the ‘both’ group). Of those who had attempted suicide, 57.3% had also engaged in NSSH and of those who reported NSSH, 39.7% also had a suicide attempt history.

Approximately 60% (60.8%) of those who have attempted suicide reported doing so more than once (range: 1–75 times, mean: 3.52 (s.d. = 7.23), median: 2) and 80% of those with an NSSH history had harmed themselves more than once (range: 1–99 times, mean: 9.39 (s.d. = 16.23), median: 4). The age at onset of the first episode of NSSH (mean: 16.05 (s.d. = 4.12), range: 5–32 years, median: 15 years) was younger than that for age at first suicide attempt (mean: 17.81 (s.d. = 4.99), range: 6–34 years, median: 17 years). Age at onset for first NSSH episode was significantly older in men (median: 16 years, mean: 16.56 (s.d. = 4.23), range: 6–29 years) compared with women (median: 15 years,
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mean: 15.77 (s.d. = 4.04), range: 5–32 years; Z = −2.64, P = 0.008). A similar gender × age association for first suicide attempt was also evident (median: 18 years, mean: 18.29 (s.d. = 5.00), range: 6–34 years for men v. median: 16 years, mean: 17.5 (s.d. = 4.97), range: 6–33 years for women; Z = −2.62, P = 0.009), with women reporting first episodes of NSSH younger than men. For both NSSH and suicide attempts, earlier age at onset was correlated with more frequent episodes of NSSH (Spearman’s ρ = −0.20, P < 0.001) and suicide attempts (Spearman’s ρ = −0.30, P < 0.001) in the whole sample and for men (Spearman’s ρ = −0.18, P = 0.018 for NSSH and Spearman’s ρ = −0.23, P = 0.006 for suicide attempts) and women separately (Spearman’s ρ = −0.21, P < 0.001 for NSSH and Spearman’s ρ = −0.33, P < 0.001 for suicide attempts).

As detailed in Table 2, lifetime suicide attempts were reported more often by women (13.8%) than men (8.8%; prevalence ratio, 1.02; odds ratio, 1.67; 95% CI = 1.35–2.07, P < 0.001) and NSSH was also more commonly reported by women (20.9%) than men (11.6%; prevalence ratio, 1.80; odds ratio, 2.02; 95% CI = 1.68–2.43, P < 0.001). Similar numbers of men (22.6%) and women (23.0%; prevalence ratio, 1.02; odds ratio, 1.02; 95% CI = 0.87–1.20, P = 0.80) reported suicidal thoughts across their lifetime whereas thoughts of NSSH were more common in women (19.2 v. 12.3% for men; prevalence ratio, 1.56; odds ratio, 1.69; 95% CI = 1.40–2.04, P < 0.0001).

Prevalence of lifetime history of suicide attempts was significantly lower among 18- to 23-year-olds, being 9% compared with 12.2% in 24- to 29-year-olds (prevalence ratio, 1.36; odds ratio, 1.40; 95% CI = 1.08–1.80, P = 0.010), with 30- to 34-year-olds reporting similar rates of suicide attempts to the 24- to 29-year-olds, at 13% (prevalence ratio, 1.07; odds ratio, 1.08; 95% CI = 0.84–1.39, P = 0.564). Although the lifetime prevalence of self-harm is similar in 18–23 (18.6%) and 24- to 29-year-olds (17.1% prevalence ratio, 0.92; odds ratio, 0.90; 95% CI = 0.74–1.10, P = 0.315), it is markedly lower among 30- to 34-year-olds compared with 24- to 29-year-olds (11.7%; prevalence ratio, 0.68; odds ratio, 0.64; 95% CI = 0.50–0.82, P < 0.0001). The age distribution for female NSSH and suicide attempts mirrors that for the sample as a whole, whereas male NSSH peaks in the 24- to 29-year-old age group.

The sociodemographic characteristics as a function of lifetime NSSH and suicide attempt histories are summarised in Table 3. Not being married was associated with increased likelihood of NSSH (17.4 v. 10.5% for not married and married, respectively; prevalence ratio, 1.66; odds ratio, 1.79; 95% CI = 1.35–2.37, P < 0.0001) but not of suicide attempts (11.7 v. 9.2% for not married and married, respectively; prevalence ratio, 1.27; odds ratio, 1.31; 95% CI = 0.97–1.78, P = 0.077; see Table 3). The prevalence of NSSH and suicide attempts was significantly higher among those who were employed (20.3%; prevalence ratio, 1.53; odds ratio, 1.67; 95% CI = 1.25–2.23, P < 0.0001 and 20.6%; prevalence ratio, 2.24; odds ratio, 2.53; 95% CI = 1.88–3.40, P < 0.0001 for NSSH and suicide attempts, respectively) and economically inactive (21.2%; prevalence ratio, 1.59; odds ratio, 1.76; 95% CI = 1.44–2.15, P < 0.0001 for NSSH and 12.3%; prevalence ratio, 1.34; odds ratio, 1.38; 95% CI = 1.09–1.76, P = 0.008 for suicide attempts) compared with those who were employed (13.3% for NSSH and 9.2% for suicide attempts). Ethnicity was not associated with prevalence of NSSH or suicide attempts. Compared with those who own their own home (10.3% reported NSSH), those living in rental (19.1% reported NSSH; prevalence ratio, 1.85; odds ratio, 2.06; 95% CI = 1.60–2.65, P < 0.0001) or other accommodation (16.3% reported NSSH; prevalence ratio, 1.58; odds ratio, 1.70; 95% CI = 1.28–2.25, P < 0.0001) were more likely to report NSSH. Those in rental accommodation were also significantly more likely to report a suicide attempt.
Table 2 Rates of suicidal thoughts, suicide attempts, non-suicidal self-harm thoughts and non-suicidal self-harm by age group

| Age Group | 18–23 years | 24–29 years | 30–34 years | All age groups |
|-----------|-------------|-------------|-------------|---------------|
|           | Lifetime, % (95% CI) | Past year, % (95% CI) | Lifetime, % (95% CI) | Past year, % (95% CI) | Lifetime, % (95% CI) | Past year, % (95% CI) | Lifetime, % (95% CI) | Past year, % (95% CI) |
| **Men**   |             |             |             |               |               |               |               |               |
| Suicidal thoughts | 20.2 (17.4–23.4) | 9.9 (7.9–12.4) | 25.2 (22.0–28.8) | 11.6 (9.3–14.4) | 22.5 (18.9–26.7) | 8.7 (6.4–11.8) | 22.6 (20.7–24.6) | 10.2 (8.9–11.7) |
| Suicide attempts | 6.4 (4.8–8.5) | 1.5 (0.8–2.7) | 10.3 (8.2–12.9) | 2.9 (1.8–4.5) | 10.3 (7.8–13.5) | 2.5 (1.4–4.4) | 8.8 (7.5–10.2) | 2.2 (1.6–3.0) |
| Non-suicidal self-harm thoughts | 11.8 (9.6–14.5) | 5.4 (4.0–7.4) | 14.1 (11.6–17.0) | 6.7 (5.0–8.9) | 10.5 (8.0–13.8) | 5.0 (3.3–7.5) | 12.3 (10.7–13.7) | 5.8 (4.8–7.0) |
| Non-suicidal self-harm | 10.8 (8.7–13.4) | 3.2 (2.1–4.8) | 14.5 (12.0–17.9) | 4.3 (3.0–6.1) | 8.6 (6.4–11.6) | 2.5 (1.4–4.4) | 11.6 (10.1–13.1) | 3.4 (2.7–4.4) |
| **Women** |             |             |             |               |               |               |               |               |
| Suicidal thoughts | 22.7 (19.5–26.2) | 12.6 (10.2–15.6) | 24.1 (20.9–27.7) | 10.8 (8.5–13.5) | 22.1 (18.6–26.0) | 7.9 (5.8–10.6) | 23.0 (21.0–25.0) | 10.6 (9.3–12.2) |
| Suicide attempts | 12.2 (9.7–15.1) | 4.9 (3.4–6.9) | 14.2 (11.6–17.2) | 2.6 (1.6–4.2) | 15.4 (12.5–18.9) | 2.0 (1.1–3.7) | 13.8 (12.3–15.6) | 3.2 (2.5–4.3) |
| Non-suicidal self-harm thoughts | 22.2 (19.1–25.7) | 12.4 (10.0–15.3) | 18.2 (15.3–21.4) | 7.7 (5.9–10.1) | 16.7 (13.7–20.2) | 6.3 (4.4–8.7) | 19.2 (17.4–21.1) | 8.9 (7.7–10.4) |
| Non-suicidal self-harm | 27.5 (24.1–31.3) | 10.5 (8.3–13.2) | 19.7 (16.8–23.0) | 5.2 (3.7–7.2) | 14.5 (11.7–17.9) | 2.4 (1.4–4.2) | 20.9 (19.1–22.9) | 6.2 (5.1–7.4) |
| **Prevalence ratios** |             |             |             |               |               |               |               |               |
| Suicidal thoughts | 1.12 | 1.27 | 0.96 | 0.93 | 0.98 | 0.91 | 1.02 | 1.04 |
| Suicide attempts | 1.91 | 3.27 | 1.38 | 0.90 | 1.50 | 0.80 | 1.57 | 1.46 |
| Non-suicidal self-harm thoughts | 1.88 | 2.30 | 1.29 | 1.15 | 1.59 | 1.26 | 1.56 | 1.53 |
| Non-suicidal self-harm | 2.55 | 3.28 | 1.36 | 1.21 | 1.69 | 0.96 | 1.80 | 1.82 |
| **All adults** |             |             |             |               |               |               |               |               |
| Suicidal thoughts | 21.3 (19.2–23.7) | 11.2 (9.6–13.1) | 24.7 (22.3–27.2) | 11.3 (9.6–13.2) | 22.2 (19.6–25.0) | 8.3 (6.7–10.3) | 22.8 (21.4–24.2) | 10.4 (9.4–11.5) |
| Suicide attempts | 9.0 (7.6–10.7) | 3.1 (2.3–4.2) | 12.2 (10.5–14.2) | 2.7 (2.0–3.8) | 13.0 (11.0–15.3) | 2.2 (1.5–3.4) | 11.3 (10.3–12.4) | 2.7 (2.2–3.3) |
| Non-suicidal self-harm thoughts | 16.7 (14.8–18.8) | 8.7 (7.2–10.3) | 14.1 (12.4–18.2) | 7.2 (5.9–8.8) | 13.9 (11.8–16.3) | 5.6 (4.3–7.0) | 15.7 (14.5–17.0) | 7.3 (6.5–8.2) |
| Non-suicidal self-harm | 18.6 (16.6–20.9) | 6.6 (5.3–8.1) | 17.1 (15.1–19.3) | 4.7 (3.7–6.0) | 11.7 (9.8–14.0) | 2.4 (1.6–3.5) | 16.2 (15.0–17.5) | 4.8 (4.2–5.6) |
| **Bases** |             |             |             |               |               |               |               |               |
| Men | 719 | 719 | 620 | 620 | 401 | 401 | 1740 | 1740 |
| Women | 654 | 654 | 639 | 639 | 475 | 475 | 1768 | 1768 |
| All | 1373 | 1373 | 1259 | 1259 | 876 | 876 | 3508 | 3508 |

a A prevalence ratio >1 means that women are more likely to report the thought/behaviour, with a prevalence ratio <1 indicating that men are more likely to report the thought/behaviour and a prevalence ratio =1 means the rates for reporting the thought/behaviour are the same for men and women.
b Numbers are unweighted, percentages are weighted.

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compared with those who owned their own home (16.0 v. 5.7%; prevalence ratio, 2.81; odds ratio, 3.17; 95% CI = 2.30–4.37, P < 0.0001).

Table 3  Descriptive statistics for sociodemographic characteristics and lifetime non-suicidal self-harm and suicide attempt history

| Sociodemographic characteristic | No self-harm (control), n = 2731 (78.9%), % (95% CI) | NSSH only, n = 339 (9.8%), % (95% CI) | Suicide attempts only, n = 167 (4.8%), % (95% CI) | NSSH and suicide attempts, n = 223 (6.5%), % (95% CI) |
|--------------------------------|-----------------------------------------------------|--------------------------------------|-----------------------------------------------|---------------------------------------------------|
| Gender (female)                | 46.4 (44.6–48.3)                                    | 60.2 (54.9–65.3)                    | 48.6 (41.0–56.0)                               | 69.2 (63.2–75.2)                                  |
| Age                            |                                                     |                                      |                                               |                                                   |
| 18–23 years                    | 36.5 (34.7–38.3)                                    | 49.3 (44.0–54.6)                    | 26.7 (20.8–34.1)                               | 32.1 (26.5–38.7)                                  |
| 24–29 years                    | 35.7 (34.0–37.6)                                    | 36.1 (31.4–41.2)                    | 36.0 (29.0–43.5)                               | 41.1 (35.0–47.8)                                  |
| 30–34 years                    | 27.8 (26.1–29.5)                                    | 14.6 (11.4–18.9)                    | 37.3 (30.2–44.7)                               | 26.8 (21.5–32.1)                                  |
| Marital status (married/civil partnership versus not married) | 18.4 (17.0–19.9)                                | 9.1 (6.5–12.7)                     | 13.7 (9.4–19.8)                                | 13.9 (10.0–19.1)                                  |
| Economic activity               |                                                     |                                      |                                               |                                                   |
| Employed                       | 64.7 (62.9–66.5)                                    | 52.9 (47.5–58.1)                    | 55.0 (47.5–62.4)                               | 47.8 (41.5–54.5)                                  |
| Unemployed                     | 8.9 (7.9–10.0)                                      | 10.2 (7.5–14.0)                    | 213 (16.0–28.4)                                | 16.4 (12.3–22.0)                                  |
| Economically inactive          | 26.4 (24.8–28.1)                                    | 36.9 (31.9–42.1)                    | 23.5 (17.6–30.3)                               | 35.8 (29.4–42.4)                                  |
| Ethnic group (White versus Black and minority ethic) | 93.8 (92.8–94.7)                                | 92.3 (89.4–95.0)                    | 94.9 (90.1–97.1)                               | 95.2 (92.0–97.6)                                  |
| Accommodation                  |                                                     |                                      |                                               |                                                   |
| Owns own home                  | 26.9 (25.3–28.6)                                    | 17.8 (14.0–22.1)                    | 12.7 (8.4–18.5)                                | 11.9 (8.5–17.1)                                   |
| Rent                           | 46.1 (44.1–47.9)                                    | 52.5 (47.1–57.8)                    | 74.6 (67.1–80.3)                               | 66.8 (60.4–72.7)                                  |
| Other                          | 27.0 (25.3–28.7)                                    | 29.7 (25.2–34.9)                    | 12.7 (8.4–18.5)                                | 21.3 (16.6–27.4)                                  |

Note. Number of respondents with missing data was 0 for gender, 0 for age, 1 for marital status, 0 for economic activity, 2 for ethnic group, 5 for accommodation.

NHSS, non-suicidal self-harm.

a Not married includes never married, separated, divorced and widowed.

b Economic activity has been reduced to three categories based upon the Adult Psychiatric Morbidity Survey data-set: employed (economically active people), unemployed those out of work but available to start work and economically inactive (including students, those looking after the home, long-term sick, disabled or retired).

c Ethnicity was collapsed into two ethnic groups (White versus Black and minority ethnic).

d Accommodation has been reduced to three categories: owns own home, rent (private rental and social housing) and other (lives with parents/relatives, other).

Discussion

Suicide attempts and NSSH are major public health concerns that affect large numbers of young people. Eleven per cent of young people aged 18–34 years report having attempted suicide and 16% report having self-harmed without suicidal intent at some stage in their lives. Women are 1.6 times more likely to report a suicide attempt than men and 1.8 times more women reported NSSH compared with men. Almost a quarter (22.8%) of young people also reported lifetime suicidal thoughts. For NSSH and suicide attempts, age at first episode tends to be during adolescence, with NSSH (mean age: 16.05 years, s.d. = 4.12) occurring, on average, 2 years earlier than suicide attempts (17.81 years, s.d. = 4.99). It is concerning that the majority of respondents who engaged in NSSH (80%) or suicide attempts and NSSH, therefore combining data from multiple sources may more accurately reflect the actual prevalence of suicide.

APMS summary tables to compare the rates of suicide attempts and NSSH in both countries. In the youngest age groups, the rates were similar in Scotland and England (the prevalence rates of lifetime suicide attempts in the Scottish Wellbeing Study (18– to 23-year-olds) and in the APMS (16– to 24-year-olds) were both 9%; rates of NSSH were 18.6 and 17.5% for Scotland and England, respectively). However, lifetime rates of suicide attempts and NSSH were higher in the Scottish sample among the older ages. Whereas the rates of suicide attempts and NSSH among 24- to 34-year-olds (we collapsed the 24- to 29-year-old and 30- to 34-year-old age groups) in this study were 12.6 and 14.8%, respectively, the comparable rates in the APMS were 8.5 and 12.1% for 25- to 34-year-olds in England. Given that the national suicide rates are higher in Scotland compared with England, these suicide attempt data may suggest that risk begins to diverge in the mid-twenties. Future research is required to determine why the rates begin to diverge in this age group; are there structural factors (which increase health inequalities, for example) in Scotland compared with England that may explain this age divergence? Caution is urged though, as the APMS is an adult lifespan study whereas the Scottish Wellbeing Study focused on young people specifically. Moreover, the APMS included young people aged 16 years and over whereas the Scottish Wellbeing Study was restricted to those who were at least 18 years old. It would be informative, therefore, to replicate the Scottish Wellbeing Study in England to yield directly comparable prevalence figures for young adults.

This study has many strengths (including large representative sample, being interview-based and confidential completion), however, it is important to recognise that suicidal history was assessed via self-report (albeit via computer) and, therefore, the responses may more accurately reflect the actual prevalence of suicide.
Suicide attempts and NSSH. 38 The use of quota sampling also requires comment. Historically, quota sampling may have yielded a biased sample (as non-responding individuals are ignored and the interviewer is selecting people or households), however, it is now argued that a rigorously designed quota sample (as conducted here) is as good as a probability sample.39,40 This is the baseline wave of a longitudinal study, therefore, the incidence rates of suicide attempts and NSSH over time will be reported in due course, as well as the associations with psychological risk and protective factors.

The findings are stark and clinically important as they highlight the scale of suicide attempts and NSSH among 18- to 34-year-olds and their demographic profile. Given that the vast majority of respondents who reported NSSH and suicide attempt did so more than once, clinicians should assess risk of repetition if a young person presents with an index suicide attempt or NSSH episode. Moreover, earlier onset of NSSH/suicide attempt is clinically significant in particular given its association with more frequent NSSH/suicide attempts. In such cases, clinicians should assess factors (e.g. impulsivity, exposure, suicidal imagery, fearlessness about death, access to means) known to increase the likelihood that thoughts of suicide and self-harm are acted upon.41–45 From a public health perspective, the unemployment and economic inactivity findings are noteworthy. However, as these data are from a retrospective study, the direction of the relationship between unemployment and economic inactivity and NSSH/suicide attempts is unclear. Nonetheless, these findings are consistent with the exist suicide research literature on health and social inequality and highlight the importance of supporting those who are unemployed and economically inactive.46

Psychiatrists, psychologists and others involved in the care of young people should be vigilant. Given the prevalence of suicide attempts and NSSH in this age group, they should routinely enquire about history of self-injurious behaviour, especially as past behaviour is such a strong predictor of suicide. 3 In conclusion, both NSSH and suicide attempts are concurrent and among young people in Scotland, with at least one in nine reporting lifetime prevalence of suicide attempts and one in six reporting NSSH, and 6.3% reporting a history of both behaviours.

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Supplementary material

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