

Report Supplementary Material 1

List of Figures	2
List of Tables.....	2
Introduction to supplementary material	3
Mixed-effect model diagnostics	4
Distribution of residuals.....	4
Linearity of time trend	5
Limiting the impact of bias in our mixed-effects models.....	6
Potential bias due to covariate-differences in the timing of interviews	6
Potential bias due to non-random loss-to-follow-up.....	8
Organisational level – ISVA type.....	12
Organisational level – SARC type	13
Service experience – service utilisation	14
Service experience – perceived harm/benefit of policing and justice response	15
Service experience – status of criminal case at baseline	16
Characteristics of the individual and the offence – burden of adverse childhood experiences	17
Characteristics of the individual and the offence – evidence of prior mental health problems	18
Characteristics of the individual and the offence – time between trauma and visit to SARC	19
Characteristics of the individual and the offence – perpetrator type.....	20
Characteristics of the individual and the offence – educational attainment of survivor.....	21
Characteristics of the individual and the offence – financial problems (ease with which participant could find £100)	22
Characteristics of the individual and the offence – inability to work e.g., due to disability.....	23
References.....	24

List of Figures

Figure 1 Distribution of Level-1 (occasion-level) residuals	4
Figure 2 Distribution of Level-2 (person-level) residuals i.e. the random effects	5
Figure 3 Scatterplot of time against level-1 residuals	5
Figure 4 Plots of (i) mean-trajectory against observed data and (ii) mean of level-1 residuals against time	6
Figure 5 An illustration of the bias that can result from the exclusion of a covariate related to both the timing of measurement and the dependent variable of interest (PTSD)	7
Figure 6 An m-DAG showing the situation in which there are systematic differences in PTSD between responders and non-responders due to an auxiliary variable	8
Figure 7 In the sample restricted to those with PTSD data we have induced an association between the risk-factor and the auxiliary variable which means we now have a backdoor pathway (i.e. confounding)	9
Figure 8 Conditioning on the auxiliary variability has severed the link between PTSD and MPTSD	10
Figure 9 Auxiliary variable is a confounder in the substantive model of interest.....	10
Figure 10 Auxiliary variable is a mediator in the substantive model of interest.....	11

List of Tables

Table 1 Unadjusted effects across different samples	12
Table 2 Adjusting for factors associated with loss to follow-up and variation in response time	12
Table 3 Unadjusted effects across different samples	13
Table 4 Adjusting for factors associated with loss to follow-up and variation in response time	13
Table 5 Unadjusted effects across different samples	14
Table 6 Adjusting for factors associated with loss to follow-up and variation in response time	14
Table 7 Unadjusted effects across different samples	15
Table 8 Adjusting for factors associated with loss to follow-up and variation in response time	15
Table 9 Unadjusted effects across different samples	16
Table 10 Adjusting for factors associated with loss to follow-up and variation in response time	16
Table 11 Unadjusted effects across different samples	17
Table 12 Adjusting for factors associated with loss to follow-up and variation in response time	17
Table 13 Unadjusted effects across different samples	18
Table 14 Adjusting for factors associated with loss to follow-up and variation in response time	18
Table 15 Unadjusted effects across different samples	19
Table 16 Adjusting for factors associated with loss to follow-up and variation in response time	19
Table 17 Unadjusted effects across different samples	20
Table 18 Adjusting for factors associated with loss to follow-up and variation in response time	20
Table 19 Unadjusted effects across different samples	21
Table 20 Adjusting for factors associated with loss to follow-up and variation in response time	21
Table 21 Unadjusted effects across different samples	22
Table 22 Adjusting for factors associated with loss to follow-up and variation in response time	22
Table 23 Unadjusted effects across different samples	23
Table 24 Adjusting for factors associated with loss to follow-up and variation in response time	23

Introduction to supplementary material

There are two parts to this supplement. Firstly, we present diagnostics in relation to the unconditional mixed-effects models. Secondly, we provide further considerations on the potential for bias due to both loss to follow-up and variability in the timing of follow-up data-collection waves.

Mixed-effect model diagnostics

We estimated a linear mixed-effects model with PCL-5¹ as the repeated dependent variable and time since baseline in years as the single covariate. For this we used the `lme()` function from the `nlme` package² using the R statistical software³ via Rstudio⁴.

This *unconditional model*, containing no covariates other than time, was estimated within three samples – (i) the complete case-sample with all three measures, (ii) those participants providing two measures (typically baseline and one follow-up), and (iii) participants providing one or repeated measure (the maximal sample). As we showed in the manuscript, these models demonstrate substantial variation in both intercept and slope (baseline levels and change) and we observe a modest negative correlation between these two quantities with participants who have higher symptom-scores at baseline demonstrating a greater improvement (in absolute terms).

Distribution of residuals

Figures 1 and 2 examine residual distributions for the maximal sample (333 participants, 773 observations). QQ-plots for the occasion-level residuals (Figure 1) and the intercept residuals (first row of Figure 2) indicate an acceptable degree of normality. Whilst the slope residuals (second row of Figure 2) deviate slightly from normality, with long upper and lower tails, we would expect that the inclusion of covariates would improve this situation. Furthermore, (i) the slope residuals have a decent level of symmetry and (ii) our sample size is such that we would not expect such a modest non-normal distribution to impact on our inference.

Figure 1 Distribution of Level-1 (occasion-level) residuals

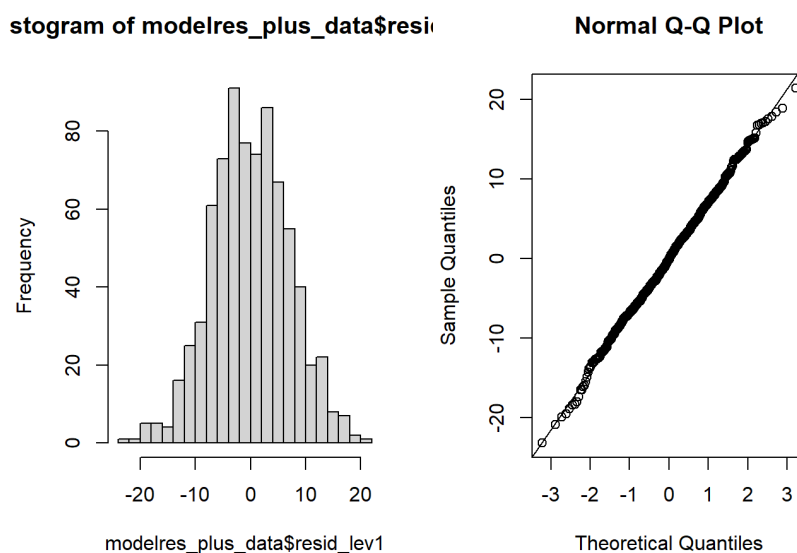
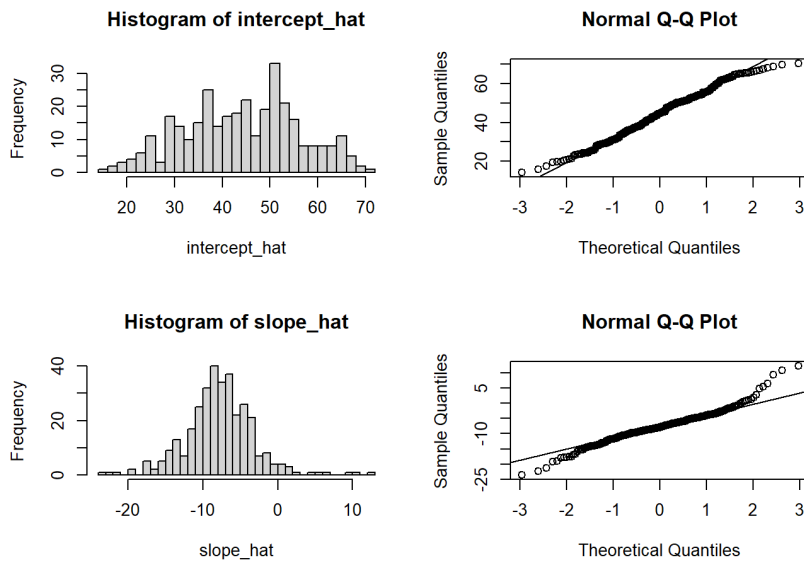


Figure 2 Distribution of Level-2 (person-level) residuals i.e. the random effects



Linearity of time trend

Our ability to accommodate a nonlinear relationship between PCL-5 and time is limited given the panel-data design with three distinct waves. Figure 3 shows no obvious pattern in the relationship between time and the occasion-level residuals.

Figure 3 Scatterplot of time against level-1 residuals

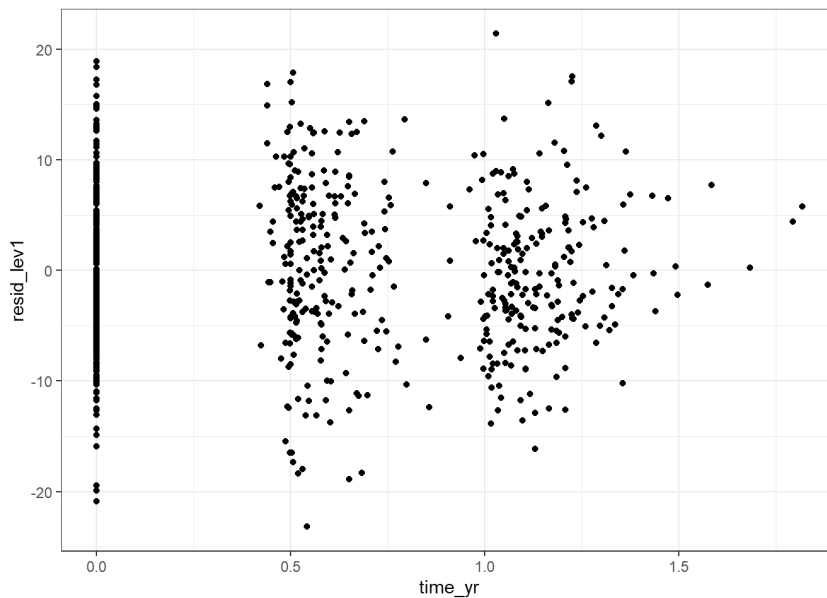
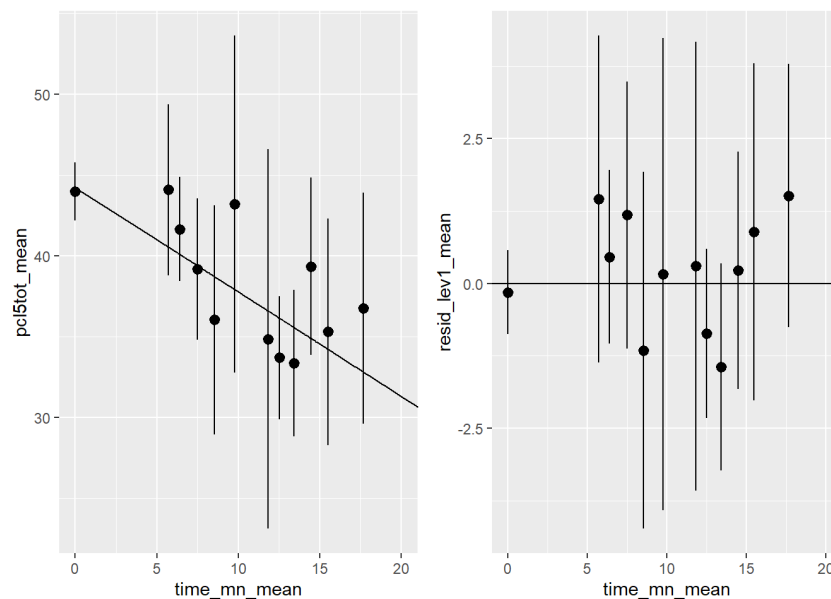


Figure 4 shows some further plots of the predicted values and residuals from the model against time alongside the observed data. The left-hand plot contains the average scores for the observed data at each month (points and 95% error-bars) along with the population mean trajectory. The right-hand plot contains the average level-1 residual at each month (points and 95% error-bars) plotted against time. Whilst at the macro-level the scatter of the points around the respective lines appears erratic, there is a suggestion of a pattern at the micro-level, i.e. within each data-collection wave. This is an indication that we should be mindful of the impact of non-random variability in the timing of follow-up waves.

Figure 4 Plots of (i) mean-trajectory against observed data and (ii) mean of level-1 residuals against time



Limiting the impact of bias in our mixed-effects models

We were mindful of two aspects of the data which might lead to bias, and we describe our approach to these in the pages which follow. Firstly, we consider the impact on variation in follow-up times which we regard as being beneficial provided it is modelled appropriately. Secondly, we consider the impact of missing data which pervades all quantitative analysis.

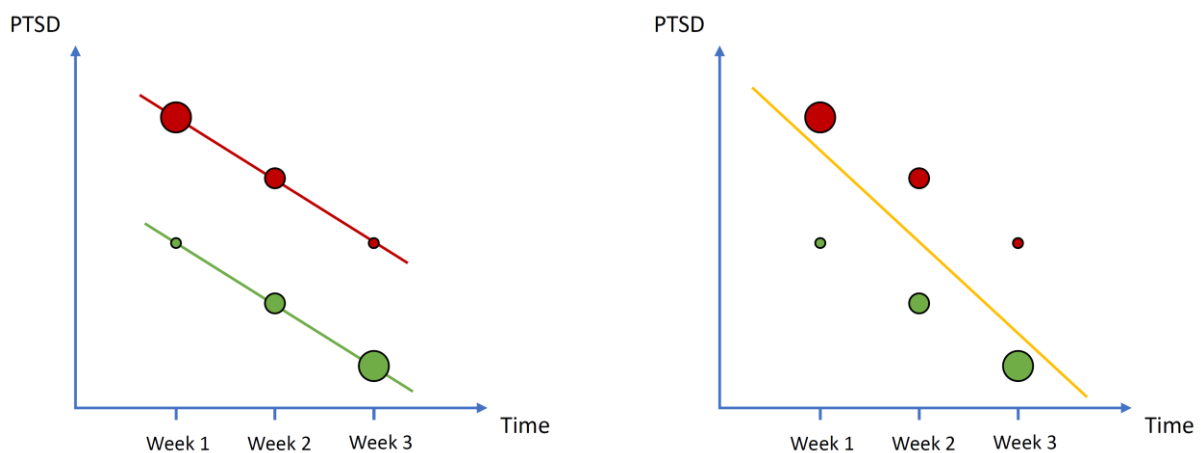
Potential bias due to covariate-differences in the timing of interviews

The study design for the quantitative element of the MESARCH study consisted of a baseline data collection at enrolment followed by two further waves of data collection at 6 months and 12 months after baseline. Some variation in the timing of subsequent waves is inevitable for a multitude of reasons, and the importance of incorporating this spread of follow-up times will depend in part on the range of values seen relative to the duration of follow-up itself, as well as the nature of the data being collected.

When studying a changing phenomenon, the optimal study design would consist of random timing of follow-up. This enables change to be modelled most accurately and precisely, however it is logistically more complex – representing a much greater challenge for those running the study, not to mention the participants who have to cope with irregular follow-up, leading to more drop-out.

When variation in response-time is not due to the study design there is the potential for bias. Figure 5 shows some imaginary data collected at a single wave. There is variation in the time of response indicated by the three vertical pairs of dots - these are one week apart so that all data has been collected over a 3-week period. We have two groups of individuals in this population – the red group typically score *higher* on PTSD and also typically have their data collected *earlier* during the data collection period (as indicated by the changing size of the dots). We can see that there is a gradual linear decrease in PTSD from week to week and that whilst the red group have higher levels on average, the rate of change is the same for both the red and green individuals. In the right-hand Figure 5 we have the same data, but we illustrate a model which has not accounted for the red/green grouping. Since grouping was related to timing of follow-up, and also the measure being studied, we see bias if the grouping is ignored – the relationship between PTSD and time is now steeper – it is upwardly biased due to the exclusion of this important aspect of our data.

Figure 5 An illustration of the bias that can result from the exclusion of a covariate related to both the timing of measurement and the dependent variable of interest (PTSD)



It would be reasonable to ask why, in this case, do we not simply ignore variation within a wave of data collection. The short-answer is that when fitting a longitudinal model across multiple waves of data, it is beneficial to incorporate time-variation when it exists – parameters pertaining to change will be estimated with greater precision and there will be more power for studying risk-factors related to degree of reduction in Y. Furthermore, if, as often happens there is time-variation in the form of a long-tail, then ignoring this variation can just as readily lead to bias as incorporating it incorrectly.

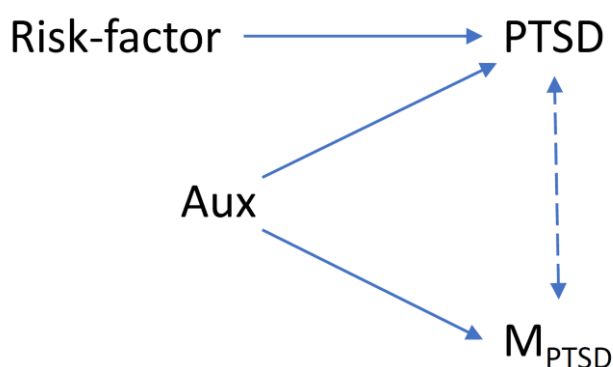
Potential bias due to non-random loss-to-follow-up.

Incomplete data can lead to issues with inference unless the problem is addressed in the analysis. At the very least, analyses carried out on the subset of participants who have provided complete data (a Complete Case Analysis) will have reduced statistical power and may provide estimates which do not generalize to the full sample of those who enrolled. Complications arise in the presence of selection bias which can induce *spurious* associations that align neither with the true estimates for the full sample nor for the Complete Case subset. Two independent risk-factors for dropout can appear (negatively) correlated within the sample of participants providing both measurements. Thus, if both males and participants with higher PCL-5 scores are less likely to be followed-up after the baseline wave, this will induce a spurious association between sex and symptoms of PTSD in the sample which remains.

Using *m*-DAGs to illustrate missing data mechanisms.

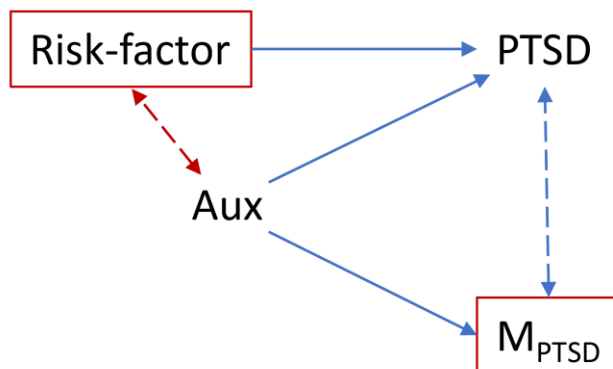
Figure 6 below depicts a scenario under which we would expect a complete-case analysis to be biased. Here the model of interest links the risk-factor to the continuous dependent variable PTSD. There is missing data for PTSD which is represented by the binary variable M_{PTSD} which takes the value 1 if PTSD is missing and 0 if PTSD is measured. There are systematic differences between those who have and have not provided data on PTSD as indicated by the double-headed arrow linking these two variables. This systematic difference – a difference in mean symptom score between responders and non-responders is shown to be due to the existence of an auxiliary variable (Aux) which is a common cause of both PTSD and its missingness status. In this setting, a Complete-Case analysis (i.e. estimated on the sample for whom $M_{PTSD} = 0$) of the univariable association between the risk factor and PTSD would be biased due to the presence of the open pathway linking PTSD and M_{PTSD} . When we condition on M_{PTSD} we induce a backdoor pathway between the risk factor and PTSD via the auxiliary variable.

Figure 6 An *m*-DAG showing the situation in which there are systematic differences in PTSD between responders and non-responders due to an auxiliary variable



Footnote: Single-headed arrows indicate causation whilst the double-headed arrow indicates an induced association.

Figure 7 In the sample restricted to those with PTSD data we have induced an association between the risk-factor and the auxiliary variable which means we now have a backdoor pathway (i.e. confounding)



Multiple Imputation

Missing data is typically addressed using Multiple Imputation (MI) whereby any missing information in any model variable is imputed using a regression model, with other “model variables” plus auxiliary (non-model) variables used as predictors. This approach is reliant on the Missing Random Assumption (MAR) which states that whilst there may be systematic differences between the values of an incomplete variable Z between those participants who do and do not provide data, such differences in Z (i.e. a mean-difference or difference in risk/odds) can be adequately explained using other observed data. One advantage of a Multiple Imputation approach to missing data, in which the imputation and the substantive analyses form two separate steps, is that auxiliary data can be included in the imputation step, and then discarded before the analysis is performed. In the above example, including both the risk-factor and auxiliary variable in the imputation model for PTSD would then permit the model of interest to be estimated without bias.

Handling missingness in mixed-effects models for longitudinal data

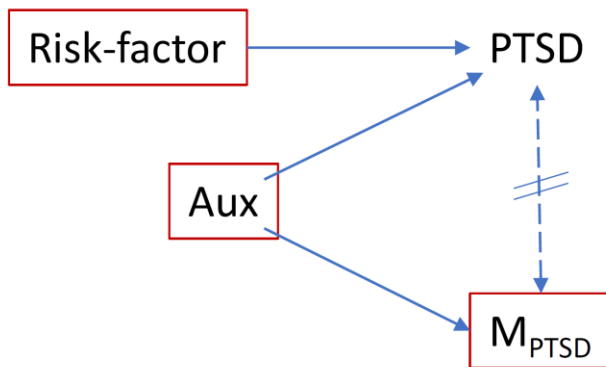
As we describe in an earlier section, mixed-effects models are a commonly used approach for analysing repeated-measures data in that they permit heterogeneity in patterns of change to be described using one or more (typically Gaussian) random effects. In the ubiquitous “random intercept/slope model”, a pair of random effects describe heterogeneity in both baseline-levels of the repeated variable and rates of linear change. Potential risk factors can then be incorporated as independent variables to explain between-subject variation in these two latent quantities.

Mixed-effects models can accommodate partial missingness in the repeated-measures data through the use of Full Information Maximum Likelihood (FIML) which means that any participant with at least one measurement can be included in the model. Dealing with missing data using Maximum likelihood estimation can be more efficient than MI⁵ but at the heart of both is the Missing at Random assumption. However, whilst Multiple Imputation relies on missing data being MAR conditional on all the variables used in the imputation model, mixed-models address missing-data within the same step as performing the substantive analysis. This is illustrated in Figure 8 in which

the auxiliary variable is added to the model to address the problem of bias. The analyst must be mindful that the inclusion of auxiliary variables for the purpose of removing bias may affect the model of interest and inadvertently change the research question. This can occur when there is a causal link between the auxiliary variable and the risk factors of interest. In Figure 9 the auxiliary variable is a confounder and so would already be expected to be included in the model, however in Figure 10 the auxiliary variable mediates the effect of the risk-factor on PTSD so its inclusion would require more deliberation.

Finally, a further drawback of the ML-approach to missing data is that this does not extend to missingness within any independent variables. Fortunately, in our situation the baseline risk factors considered are essentially complete, so this is not a concern.

Figure 8 Conditioning on the auxiliary variability has severed the link between PTSD and MPTSD



Footnote: the box around a variable indicates that this variable has been conditional on. the box surrounding M_{PTSD} shows that here we are focussing on the subsample for whom PTSD outcome data is available.

Figure 9 Auxiliary variable is a confounder in the substantive model of interest

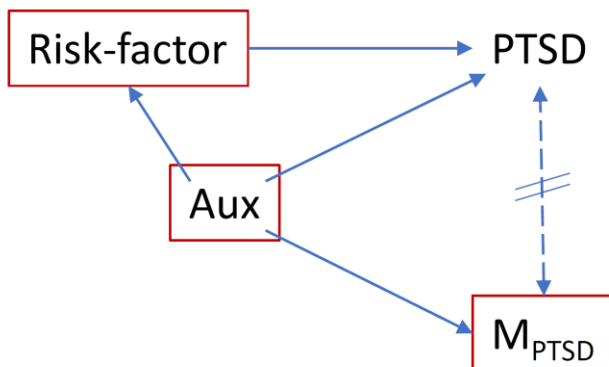
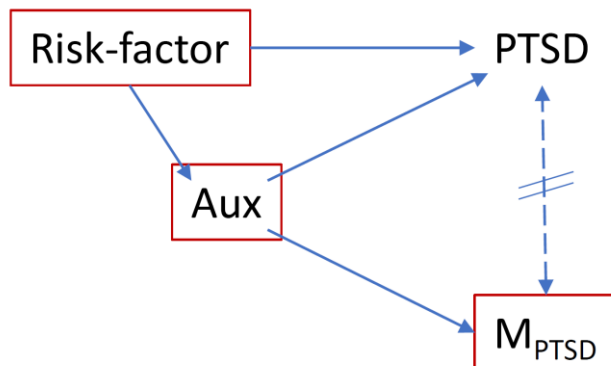


Figure 10 Auxiliary variable is a mediator in the substantive model of interest



Our modelling strategy in the face of these challenges

Given our interest in using mixed-effects models for the analysis of change in symptoms of PTSD, and studying baseline risk factors associated with this change, the use of Maximum Likelihood for addressing partial missingness is a prudent decision. The strategy for avoiding bias due to non-random dropout is essentially the same as the strategy for handling non-random variability in the timing of follow-up waves. We will seek to condition on risk factors for PTSD which are also either associated with dropout or time-variation. As described above, we will need to be cautious about the choice of variables and consider the potential direction of causality between these auxiliary variables and the variables of substantive interest.

The tables spanning the subsequent pages are of two forms. Firstly (top table in each pair) we present the unadjusted association between each risk factor of interest and the baseline and slope for PCL-5 across three different sample sizes. Below this we present estimates from the mixed-effects models estimated using the maximal sample, adjusting for factors found to be associated with either loss-to-follow up or variation in time at response.

The goal here with this set of adjusted models is merely to account for differences in PTSD symptoms either by timing of response or between responders and non-responders. We are not interested in the parameters obtained for these factors. Aside from the type of SARC and type of ISVA, the baseline factors chosen were Sex assigned at birth (female/male), Ethnicity – White versus non-White (mixed/Asian/black/Chinese/other-ethnic), Religion – no religion versus some form of religion (Christian/Buddist/Jewish/Muslim/other) and sexual orientation – heterosexual/straight versus asexual/gay/bisexual/lesbian/pansexual/queer. The final column from these lower tables mirrors those presented in the main text.

Organisational level – ISVA type

Table 1 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	44.6	41.4 – 47.8	<0.001	45.3	42.6 – 48.0	<0.001	44.3	42.0 – 46.7	<0.001
ISVA on-site	0.6	-4.2 – 5.5	0.802	-0.9	-5.0 – 3.1	0.648	-0.2	-3.8 – 3.4	0.9
Slope model									
(Intercept)	-7.4	-10.2 – -4.6	<0.001	-7.8	-10.3 – -5.3	<0.001	-7.4	-9.8 – -5.0	<0.001
ISVA on-site	-2.6	-6.8 – 1.7	0.242	-0.6	-4.5 – 3.2	0.742	-0.9	-4.6 – 2.9	0.652
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 2 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	44.3	42.0 – 46.7	<0.001	46.7	40.1 – 53.3	<0.001	46.1	37.5 – 54.8	<0.001
ISVA on-site	-0.2	-3.8 – 3.4	0.900	-0.9	-4.5 – 2.8	0.645	-1.8	-6.6 – 3.0	0.471
Slope model									
(Intercept)	-7.4	-9.8 – -5.0	<0.001	-9.9	-16.7 – -3.1	0.005	-6.5	-15.6 – 2.6	0.165
ISVA on-site	-0.9	-4.6 – 2.9	0.652	-0.5	-4.2 – 3.3	0.800	-2.6	-7.8 – 2.6	0.334
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Reference category = ISVA off-site

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for SARC type.

Slope parameters represent expected reduction in symptoms per year.

Organisational level – SARC type

Table 3 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	39.5	34.1 – 45.0	<0.001	41.3	37.0 – 45.7	<0.001	42.5	38.5 – 46.4	<0.001
Charity-led	4.9	-9.2 – 19.1	0.495	4.6	-6.4 – 15.6	0.415	1.7	-7.9 – 11.3	0.73
NHS led	4.5	-2.3 – 11.2	0.197	2.5	-3.0 – 8.0	0.379	0.8	-4.2 – 5.8	0.745
Private sector	8.5	1.9 – 15.0	<0.001	6.1	0.8 – 11.5	<0.001	3.5	-1.4 – 8.3	0.2
Slope model									
(Intercept)	-5.7	-10.5 – -0.8	0.024	-6.5	-10.7 – -2.3	0.003	-6.8	-10.9 – -2.6	0.001
Charity-led	-10.6	-23.5 – 2.3	0.109	-9.4	-21.0 – 2.1	0.111	-7.7	-19.0 – 3.5	0.180
NHS led	-2.3	-8.3 – 3.7	0.459	-1.4	-6.7 – 3.8	0.596	-0.9	-6.0 – 4.2	0.730
Private sector	-4	-9.9 – 1.8	0.177	-2	-7.2 – 3.1	0.438	-1.1	-6.1 – 4.0	0.682
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 4 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	42.5	38.5 – 46.4	<0.001	44.4	37.0 – 51.9	<0.001	46.1	37.5 – 54.8	<0.001
Charity-led	1.7	-7.9 – 11.3	0.73	2.2	-7.4 – 11.7	0.659	0.6	-9.8 – 11.0	0.916
NHS led	0.8	-4.2 – 5.8	0.745	1.6	-3.4 – 6.6	0.546	0.1	-6.4 – 6.5	0.987
Private sector	3.5	-1.4 – 8.3	0.161	4.7	-0.2 – 9.6	0.063	4.1	-1.0 – 9.2	0.119
Slope model									
(Intercept)	-6.8	-10.9 – -2.6	0.001	-9.1	-16.7 – -1.5	0.020	-6.5	-15.6 – 2.6	0.165
Charity-led	-7.7	-19.0 – 3.5	0.180	-7.5	-18.8 – 3.7	0.193	-9.9	-22.1 – 2.2	0.114
NHS led	-0.9	-6.0 – 4.2	0.730	-1.2	-6.3 – 4.0	0.660	-3.5	-10.3 – 3.4	0.327
Private sector	-1.1	-6.1 – 4.0	0.682	-1.5	-6.6 – 3.6	0.562	-2.3	-7.7 – 3.0	0.402
Omnibus tests									
Baseline	$\chi^2 = 2.6, p = 0.455$			$\chi^2 = 4.2, p = 0.237$			$\chi^2 = 4.6, p = 0.208$		
Slope	$\chi^2 = 1.8, p = 0.609$			$\chi^2 = 1.8, p = 0.619$			$\chi^2 = 2.7, p = 0.445$		
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Reference category = Police-led

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type.

Service experience – service utilisation

Table 5 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	30.6	23.1 – 38.1	<0.001	31	24.9 – 37.1	<0.001	32.2	26.9 – 37.4	<0.001
Log(service use)	5.6	2.8 – 8.5	<0.001	5.4	3.2 – 7.7	<0.001	4.7	2.8 – 6.7	<0.001
Slope model									
(Intercept)	-8.2	-15.0 – -1.5	0.017	-8.9	-14.8 – -3.0	0.003	-9.3	-15.0 – -3.6	0.002
Log(service use)	-0.1	-2.6 – 2.4	0.934	0.3	-1.9 – 2.5	0.795	0.6	-1.5 – 2.7	0.581
N	182 _{ID}			257 _{ID}			332 _{ID}		
Observations	546			696			771		

Table 6 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	32.2	26.9 – 37.4	<0.001	34.8	26.9 – 42.7	<0.001	35.5	25.9 – 45.0	<0.001
Log(service use)	4.7	2.8 – 6.7	<0.001	4.6	2.7 – 6.6	<0.001	4.5	2.6 – 6.4	<0.001
Slope model									
(Intercept)	-9.3	-15.0 – -3.6	0.002	-11.8	-20.2 – -3.5	0.006	-8.2	-18.5 – 2.2	0.128
Log(service use)	0.6	-1.5 – 2.7	0.581	0.7	-1.4 – 2.9	0.498	0.7	-1.4 – 2.9	0.509
N	332 _{ID}			330 _{ID}			330 _{ID}		
Observations	771			765			765		

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Service experience – perceived harm/benefit of policing and justice response

Table 7 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	P	Estimates	CI	p
Baseline model									
(Intercept)	45.0	39.0 – 51.0	<0.001	44.0	39.1 – 49.0	<0.001	43.7	39.4 – 48.1	<0.001
Negative perception	-0.5	-8.4 – 7.5	0.911	1.0	-5.8 – 7.8	0.778	1.5	-4.6 – 7.6	0.638
Positive perception	1.0	-6.0 – 8.0	0.785	1.7	-4.1 – 7.5	0.564	1.1	-3.9 – 6.2	0.662
N/A	-2.2	-10.7 – 6.3	0.614	-0.2	-7.2 – 6.8	0.956	-0.8	-6.9 – 5.4	0.804
Slope model									
(Intercept)	-9.3	-14.4 – -4.1	0.001	-10.0	-14.6 – -5.3	<0.001	-9.8	-14.4 – -5.3	<0.001
Negative perception	3.0	-3.9 – 9.8	0.399	2.8	-3.6 – 9.1	0.394	2.5	-3.6 – 8.7	0.420
Positive perception	-1.1	-7.1 – 4.9	0.720	1.1	-4.3 – 6.5	0.686	1.4	-3.9 – 6.6	0.614
N/A	3.0	-4.2 – 10.3	0.412	4.4	-2.0 – 10.9	0.181	4.9	-1.4 – 11.2	0.129
N	179 _{ID}			255 _{ID}			325 _{ID}		
Observations	537			689			759		

Table 8 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	P	Estimates	CI	p
Baseline model									
(Intercept)	43.7	39.4 – 48.1	<0.001	45.6	37.9 – 53.2	<0.001	45.8	36.3 – 55.2	<0.001
Negative perception	1.5	-4.6 – 7.6	0.638	1.2	-5.0 – 7.3	0.715	1.1	-5.1 – 7.2	0.733
Positive perception	1.1	-3.9 – 6.2	0.662	0.9	-4.2 – 6.0	0.722	1	-4.1 – 6.1	0.692
N/A	-0.8	-6.9 – 5.4	0.804	-0.3	-6.6 – 6.0	0.929	0.3	-6.0 – 6.6	0.922
Slope model									
(Intercept)	-9.8	-14.4 – -5.3	<0.001	-12.4	-20.3 – -4.4	0.003	-9.5	-19.5 – 0.5	0.066
Negative perception	2.5	-3.6 – 8.7	0.420	2.4	-3.9 – 8.8	0.454	2.3	-4.0 – 8.7	0.472
Positive perception	1.4	-3.9 – 6.6	0.614	1.6	-3.8 – 6.9	0.567	1.6	-3.7 – 6.9	0.563
N/A	4.9	-1.4 – 11.2	0.129	4.9	-1.5 – 11.4	0.138	4.5	-2.0 – 11.0	0.18
Omnibus tests									
Baseline	$\chi^2 = 0.78, p = 0.853$			$\chi^2 = 0.34, p = 0.952$			$\chi^2 = 0.22, p = 0.975$		
Slope	$\chi^2 = 2.7, p = 0.434$			$\chi^2 = 2.5, p = 0.479$			$\chi^2 = 2.0, p = 0.576$		
N	325 _{ID}			323 _{ID}			323 _{ID}		
Observations	759			753			753		

Reference category = Neutral perception (rating between -30 and 30)

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Service experience – status of criminal case at baseline

Table 9 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	P	Estimates	CI	p
Baseline model									
(Intercept)	46.9	43.7 – 50.1	<0.001	45.7	43.1 – 48.4	<0.001	45.6	43.2 – 47.9	<0.001
Case self-closed	-6.2	-12.1 – -0.4	0.037	-3.4	-8.3 – 1.4	0.163	-3.5	-7.8 – 0.8	0.114
Case police-closed	-2.3	-8.6 – 3.9	0.469	0.3	-5.1 – 5.7	0.926	-2.3	-7.0 – 2.4	0.341
Slope model									
(Intercept)	-10.0	-12.8 – -7.1	<0.001	-8.5	-11.0 – -5.9	<0.001	-8.4	-10.8 – -5.9	<0.001
Case self-closed	4.6	-0.5 – 9.6	0.079	2.6	-1.9 – 7.1	0.258	2.8	-1.6 – 7.2	0.220
Case police-closed	1.8	-3.7 – 7.3	0.519	-1.5	-6.5 – 3.6	0.571	-0.4	-5.2 – 4.5	0.882
N	180 _{ID}			256 _{ID}			331 _{ID}		
Observations	540			692			767		

Table 10 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	P	Estimates	CI	p
Baseline model									
(Intercept)	45.6	43.2 – 47.9	<0.001	47.2	40.6 – 53.8	<0.001	47.7	38.9 – 56.6	<0.001
Case self-closed	-3.5	-7.8 – 0.8	0.114	-3.1	-7.5 – 1.3	0.171	-2.8	-7.2 – 1.6	0.226
Case police-closed	-2.3	-7.0 – 2.4	0.341	-2.7	-7.4 – 2.0	0.264	-3.2	-7.9 – 1.6	0.198
Slope model									
(Intercept)	-8.4	-10.8 – -5.9	<0.001	-10.3	-17.0 – -3.5	0.003	-6.8	-16.2 – 2.5	0.157
Case self-closed	2.8	-1.6 – 7.2	0.220	2.5	-1.9 – 7.0	0.271	2.0	-2.5 – 6.5	0.390
Case police-closed	-0.4	-5.2 – 4.5	0.882	0.0	-4.9 – 5.0	0.996	-0.3	-5.2 – 4.7	0.911
Omnibus tests									
Baseline	$\chi^2 = 2.8, p = 0.244$			$\chi^2 = 2.5, p = 0.284$			$\chi^2 = 2.5, p = 0.285$		
Slope	$\chi^2 = 1.8, p = 0.407$			$\chi^2 = 1.3, p = 0.511$			$\chi^2 = 0.91, p = 0.633$		
N	331 _{ID}			329 _{ID}			329 _{ID}		
Observations	767			761			761		

Reference category = case remains open

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – burden of adverse childhood experiences

Table 11 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	35.9	30.5 – 41.2	<0.001	36.9	32.4 – 41.4	<0.001	35.7	31.9 – 39.6	<0.001
Per additional ACE	1.5	0.7 – 2.3	<0.001	1.3	0.6 – 1.9	<0.001	1.4	0.8 – 1.9	<0.001
Slope model									
(Intercept)	-5.6	-10.5 – -0.7	0.026	-4.8	-9.2 – -0.4	0.033	-4	-8.3 – 0.2	0.062
Per additional ACE	-0.5	-1.2 – 0.3	0.203	-0.5	-1.2 – 0.1	0.103	-0.6	-1.2 – 0.0	0.056
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 12 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	35.7	31.9 – 39.6	<0.001	37.6	30.4 – 44.9	<0.001	36.5	27.2 – 45.7	<0.001
Per additional ACE	1.4	0.8 – 1.9	<0.001	1.3	0.8 – 1.9	<0.001	1.4	0.8 – 1.9	<0.001
Slope model									
(Intercept)	-4.0	-8.3 – 0.2	0.062	-5.7	-13.4 – 2.0	0.152	-2.1	-11.9 – 7.7	0.679
Per additional ACE	-0.6	-1.2 – 0.0	0.056	-0.7	-1.3 – -0.1	0.035	-0.6	-1.3 – 0.0	0.054
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – evidence of prior mental health problems

Table 13 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	41.3	38.0 – 44.5	<0.001	41.3	38.7 – 44.0	<0.001	40.6	38.3 – 43.0	<0.001
MH issues present	7.4	2.7 – 12.1	0.002	7.7	3.7 – 11.6	<0.001	8	4.6 – 11.5	<0.001
Slope model									
(Intercept)	-7.5	-10.4 – -4.5	<0.001	-7	-9.6 – -4.4	<0.001	-6.6	-9.2 – -4.0	<0.001
MH issues present	-2.1	-6.4 – 2.1	0.320	-2.3	-6.1 – 1.5	0.229	-2.6	-6.3 – 1.1	0.165
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 14 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	40.6	38.3 – 43.0	<0.001	43.1	36.6 – 49.5	<0.001	42.5	33.9 – 51.1	<0.001
MH issues present	8.0	4.6 – 11.5	<0.001	7.8	4.3 – 11.2	<0.001	7.6	4.0 – 11.1	<0.001
Slope model									
(Intercept)	-6.6	-9.2 – -4.0	<0.001	-8.8	-15.5 – -2.1	0.011	-5.0	-14.2 – 4.1	0.285
MH issues present	-2.6	-6.3 – 1.1	0.165	-3.0	-6.7 – 0.7	0.116	-2.8	-6.7 – 1.0	0.152
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – time between trauma and visit to SARC

Table 15 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	42.9	39.2 – 46.6	<0.001	43.6	40.5 – 46.7	<0.001	42.4	39.7 – 45.0	<0.001
Duration 11d - 1yr	3.3	-2.8 – 9.4	0.286	2.3	-2.7 – 7.3	0.376	3.7	-0.8 – 8.1	0.104
Duration > 1 year	3.3	-2.2 – 8.9	0.242	2	-2.7 – 6.7	0.401	3.1	-1.0 – 7.3	0.141
Slope model									
(Intercept)	-6.9	-10.1 – -3.6	<0.001	-7.4	-10.4 – -4.5	<0.001	-6.9	-9.7 – -4.0	<0.001
Duration 11d - 1yr	-1.6	-6.9 – 3.8	0.565	0.7	-4.1 – 5.5	0.772	0.1	-4.6 – 4.7	0.971
Duration > 1 year	-3.7	-8.6 – 1.1	0.134	-2.6	-6.9 – 1.8	0.252	-2.9	-7.2 – 1.4	0.186
N	182 _{ID}			258 _{ID}			332 _{ID}		
Observations	546			698			772		

Table 16 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	42.4	39.7 – 45.0	<0.001	44.5	37.0 – 51.9	<0.001	42.8	33.3 – 52.2	<0.001
Duration 11d - 1yr	3.7	-0.8 – 8.1	0.104	3.3	-1.1 – 7.8	0.145	4.6	-0.0 – 9.1	0.056
Duration > 1 year	3.1	-1.0 – 7.3	0.141	1.7	-2.8 – 6.2	0.451	4.4	-0.5 – 9.3	0.081
Slope model									
(Intercept)	-6.9	-9.7 – -4.0	<0.001	-8.2	-15.9 – -0.6	0.037	-3.8	-13.6 – 5.9	0.446
Duration 11d - 1yr	0.1	-4.6 – 4.7	0.971	0.4	-4.2 – 5.1	0.858	0.4	-4.3 – 5.2	0.860
Duration > 1 year	-2.9	-7.2 – 1.4	0.186	-2.9	-7.4 – 1.7	0.219	-3.6	-8.5 – 1.3	0.157
Omnibus tests									
Baseline	$\chi^2 = 3.5, p = 0.172$			$\chi^2 = 2.2, p = 0.330$			$\chi^2 = 4.9, p = 0.087$		
Slope	$\chi^2 = 2.2, p = 0.337$			$\chi^2 = 2.1, p = 0.346$			$\chi^2 = 2.9, p = 0.236$		
N	332 _{ID}			330 _{ID}			330 _{ID}		
Observations	772			766			766		

Reference category = Up to ten days

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – perpetrator type

Table 17 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	46.5	41.8 – 51.1	<0.001	47.7	43.8 – 51.6	<0.001	47.3	43.8 – 50.8	<0.001
CSA	-0.4	-8.5 – 7.7	0.924	-2.5	-9.2 – 4.2	0.471	-1.8	-7.9 – 4.3	0.567
Acquaintance	-3.8	-9.7 – 2.1	0.214	-5.4	-10.3 – -0.4	0.036	-5.3	-9.8 – -0.8	0.022
Stranger	-3.8	-11.3 – 3.8	0.329	-4.4	-10.7 – 1.8	0.168	-4.6	-10.0 – 0.8	0.097
Other	13.0	2.0 – 24.0	0.022	8.0	-1.8 – 17.9	0.113	4.4	-4.7 – 13.6	0.346
Slope model									
(Intercept)	-7.2	-11.4 – -3.0	0.001	-7.7	-11.5 – -3.9	<0.001	-7.5	-11.2 – -3.8	<0.001
CSA	-1	-8.3 – 6.3	0.784	0.2	-6.3 – 6.7	0.950	0.2	-6.2 – 6.5	0.957
Acquaintance	-2.5	-7.8 – 2.8	0.360	-1.5	-6.3 – 3.3	0.546	-1.5	-6.2 – 3.2	0.537
Stranger	1.5	-5.2 – 8.2	0.663	2.3	-3.6 – 8.2	0.451	2.3	-3.4 – 8.0	0.431
Other	-6.9	-17.0 – 3.2	0.182	-4.2	-13.5 – 5.1	0.383	-2.5	-11.6 – 6.6	0.592
N	181 _{ID}			256 _{ID}			327 _{ID}		
Observations	543			693			764		

Table 18 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	47.3	43.8 – 50.8	<0.001	49.1	41.5 – 56.6	<0.001	48.4	39.0 – 57.7	<0.001
CSA	-1.8	-7.9 – 4.3	0.567	-2.8	-9.2 – 3.5	0.388	-2.6	-8.9 – 3.7	0.429
Acquaintance	-5.3	-9.8 – -0.8	0.022	-5.2	-9.7 – -0.7	0.026	-6.6	-11.2 – -2.0	0.006
Stranger	-4.6	-10.0 – 0.8	0.097	-4.6	-10.1 – 0.8	0.097	-6.4	-12.0 – -0.9	0.026
Other	4.4	-4.7 – 13.6	0.346	3.4	-5.8 – 12.6	0.474	2.3	-6.8 – 11.5	0.622
Slope model									
(Intercept)	-7.5	-11.2 – -3.8	<0.001	-10.3	-18.1 – -2.5	0.010	-6.5	-16.3 – 3.3	0.202
CSA	0.2	-6.2 – 6.5	0.957	0.6	-6.0 – 7.3	0.851	1.1	-5.6 – 7.8	0.755
Acquaintance	-1.5	-6.2 – 3.2	0.537	-1.3	-6.0 – 3.4	0.593	-0.7	-5.5 – 4.1	0.788
Stranger	2.3	-3.4 – 8.0	0.431	2.6	-3.2 – 8.3	0.384	3.0	-2.9 – 8.9	0.324
Other	-2.5	-11.6 – 6.6	0.592	-2.0	-11.2 – 7.2	0.667	-1.1	-10.3 – 8.1	0.813
Omnibus tests									
Baseline	$\chi^2 = 9.2, p = 0.056$			$\chi^2 = 7.8, p = 0.099$			$\chi^2 = 11.2, p = 0.024$		
Slope	$\chi^2 = 2.3, p = 0.674$			$\chi^2 = 2.4, p = 0.665$			$\chi^2 = 2.1, p = 0.722$		
N	327 _{ID}			325 _{ID}			325 _{ID}		
Observations	764			758			758		

Reference category = Partner of survivor

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – educational attainment of survivor

Table 19 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	47.2	43.2 – 51.2	<0.001	47	43.5 – 50.5	<0.001	45.9	42.9 – 49.0	<0.001
A-level education	-1.1	-6.8 – 4.6	0.703	-1.7	-6.6 – 3.2	0.5	-0.7	-5.0 – 3.7	0.763
>A-level education	-6.3	-12.1 – -0.4	0.037	-4.5	-9.4 – 0.4	0.074	-4.4	-8.7 – -0.0	0.05
Slope model									
(Intercept)	-9.3	-12.9 – -5.7	<0.001	-8.8	-12.1 – -5.5	<0.001	-8.3	-11.4 – -5.1	<0.001
A-level education	0.7	-4.4 – 5.9	0.776	0.9	-3.6 – 5.5	0.690	0.4	-4.0 – 4.8	0.866
>A-level education	1.8	-3.5 – 7.0	0.508	0.7	-3.9 – 5.4	0.753	0.6	-3.9 – 5.1	0.788
N	182 _{ID}			256 _{ID}			330 _{ID}		
Observations	546			694			768		

Table 20 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	45.9	42.9 – 49.0	<0.001	47.1	40.6 – 53.7	<0.001	46.8	38.0 – 55.5	<0.001
A-level education	-0.7	-5.0 – 3.7	0.763	0.0	-4.4 – 4.5	0.985	0.4	-4.0 – 4.8	0.859
>A-level education	-4.4	-8.7 – -0.0	0.05	-4.0	-8.5 – 0.4	0.078	-3.8	-8.2 – 0.6	0.099
Slope model									
(Intercept)	-8.3	-11.4 – -5.1	<0.001	-10.2	-16.8 – -3.7	0.002	-5.6	-14.6 – 3.3	0.225
A-level education	0.4	-4.0 – 4.8	0.866	-0.8	-5.4 – 3.8	0.740	-1.2	-5.8 – 3.4	0.607
>A-level education	0.6	-3.9 – 5.1	0.788	-0.5	-5.1 – 4.1	0.836	-0.9	-5.5 – 3.7	0.706
Omnibus tests									
Baseline	$\chi^2 = 4.5, p = 0.104$			$\chi^2 = 4.4, p = 0.110$			$\chi^2 = 4.4, p = 0.113$		
Slope	$\chi^2 = 0.07, p = 0.963$			$\chi^2 = 0.11, p = 0.945$			$\chi^2 = 0.29, p = 0.867$		
N	330 _{ID}			328 _{ID}			328 _{ID}		
Observations	768			762			762		

Reference category = Less than A-levels

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – financial problems (ease with which participant could find £100)

Table 21 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	52.8	46.5 – 59.1	<0.001	51.8	46.6 – 57.1	<0.001	49	44.7 – 53.3	<0.001
£100 difficult	-7.1	-14.5 – 0.3	0.060	-5.9	-12.1 – 0.3	0.061	-3.2	-8.4 – 2.1	0.237
£100 not a problem	-10.9	-18.0 – -3.7	0.003	-9.7	-15.6 – -3.7	0.002	-7.6	-12.5 – -2.6	0.003
Slope model									
(Intercept)	-9.1	-14.9 – -3.3	0.002	-10.1	-15.3 – -4.8	<0.001	-8.8	-13.8 – -3.8	0.001
£100 difficult	0.7	-6.0 – 7.4	0.839	2.5	-3.6 – 8.5	0.428	1.3	-4.5 – 7.2	0.655
£100 not a problem	0.7	-5.9 – 7.2	0.843	2.2	-3.7 – 8.0	0.473	1.2	-4.4 – 6.8	0.672
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 22 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	49	44.7 – 53.3	<0.001	52.1	44.1 – 60.1	<0.001	51.2	41.7 – 60.8	<0.001
£100 difficult	-3.2	-8.4 – 2.1	0.237	-2.8	-8.1 – 2.6	0.313	-3.1	-8.4 – 2.2	0.255
£100 not a problem	-7.6	-12.5 – -2.6	0.003	-7.2	-12.3 – -2.1	0.007	-7.3	-12.4 – -2.2	0.006
Slope model									
(Intercept)	-8.8	-13.8 – -3.8	0.001	-12.0	-20.6 – -3.4	0.007	-7.8	-18.3 – 2.6	0.146
£100 difficult	1.3	-4.5 – 7.2	0.655	1.9	-4.0 – 7.8	0.527	2.1	-3.8 – 8.0	0.492
£100 not a problem	1.2	-4.4 – 6.8	0.672	1.8	-4.0 – 7.6	0.547	1.6	-4.2 – 7.4	0.595
Omnibus tests									
Baseline	$\chi^2 = 10.7, p = 0.005$			$\chi^2 = 9.6, p = 0.008$			$\chi^2 = 9.4, p = 0.009$		
Slope	$\chi^2 = 0.22, p = 0.896$			$\chi^2 = 0.44, p = 0.801$			$\chi^2 = 0.49, p = 0.784$		
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Reference category = Impossible to find £100

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

Characteristics of the individual and the offence – inability to work e.g., due to disability

Table 23 Unadjusted effects across different samples

Predictors	PCL-5 (Complete Sample)			PCL-5 (2+ Measures)			PCL-5 (Maximal sample)		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	42.9	40.3 – 45.4	<0.001	42.6	40.4 – 44.7	<0.001	42.1	40.2 – 44.1	<0.001
Unable to work	11.9	5.7 – 18.0	<0.001	11.7	6.8 – 16.6	<0.001	9.8	5.6 – 14.0	<0.001
Slope model									
(Intercept)	-7.9	-10.2 – -5.5	<0.001	-7.5	-9.6 – -5.4	<0.001	-7.2	-9.3 – -5.2	<0.001
Unable to work	-4.0	-9.6 – 1.7	0.170	-3.1	-8.1 – 1.8	0.215	-2.4	-7.1 – 2.4	0.328
N	182 _{ID}			258 _{ID}			333 _{ID}		
Observations	546			698			773		

Table 24 Adjusting for factors associated with loss to follow-up and variation in response time

Predictors	Unadjusted model			Adjusted 1			Adjusted 2		
	Estimates	CI	p	Estimates	CI	p	Estimates	CI	p
Baseline model									
(Intercept)	42.1	40.2 – 44.1	<0.001	44.5	38.1 – 50.8	<0.001	43.8	35.4 – 52.2	<0.001
Unable to work	9.8	5.6 – 14.0	<0.001	9.3	5.0 – 13.5	<0.001	10.0	5.7 – 14.2	<0.001
Slope model									
(Intercept)	-7.2	-9.3 – -5.2	<0.001	-9.8	-16.5 – -3.1	0.004	-6.0	-15.1 – 3.1	0.202
Unable to work	-2.4	-7.1 – 2.4	0.328	-2.1	-6.9 – 2.7	0.396	-2.2	-7.1 – 2.6	0.370
N	333 _{ID}			331 _{ID}			331 _{ID}		
Observations	773			767			767		

Reference category = Able to work

Adjusted 1: adjusted for religion (yes/no), sex (male/female), ethnicity (white/non-white), and sexual orientation (straight/other).

Adjusted 2: additionally adjusted for ISVA type and SARC type.

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