Supplemental material

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Supplementary Data

Supplementary Table 1: *Table of predictor variables chosen, the method of data collection, the subgroups at measurement and the subgroups at analysis*

Potential predictor	Source of data	Subgroups when measured	Subgroups when analysed
Final diagnosis	Clinical records	Miscarriage (including molar)/ Ectopic pregnancy/ Resolved PUL	Miscarriage (including molar)/ Ectopic pregnancy/ Resolved PUL
Age (in years)	Clinical records *Date of birth to date of diagnosis*	Continuous	Continuous
IVF this pregnancy	Clinical records	Yes/No	Yes/No
Gestation at diagnosis	Clinical records *Date of LMP (if known) or embryo transfer to date of diagnosis**	Continuous/ Unknown	Continuous/ Unknown
Nights admission	Clinical records	Continuous	Continuous
Days from first scan to diagnosis	Clinical records *Date of first scan to date of diagnosis**	Continuous	Continuous
Final management	Clinical records *If more than one management, final management used*	Conservative/ Medical management of miscarriage/ Medical management of ectopic or PPUL with methotrexate Surgical management of miscarriage/ Salpingectomy for ectopic/ Salpingostomy for ectopic/ Other surgical management for ectopic	Conservative/ Medical management of miscarriage or ectopic/ Surgical management of miscarriage or ectopic
Fetal heart (miscarriage only)	Clinical records	Yes/ Yes with concerns/ No	Yes/No
Highest level of education	Questionnaire	No formal qualifications/ GCSEs(or equivalent)/ A-levels (or equivalent)/ University degree or professional qualification/ Post-graduate or PhD	No formal qualifications/ GCSEs(or equivalent)/ A-levels (or equivalent)/ University degree or professional qualification/ Post-graduate or PhD
Time taken to conceive	Questionnaire	Not planned/ 1-3 months/ 3-6 months/ 6-12 months/ 13-18 months/	Not planned/ <=1 year/ >1year

		19-24 months/ more than 2 years	
Psychiatric disorder	Questionnaire	Currently/ In the past/ No	Currently/ In the past/ No
Any previous pregnancy loss	Questionnaire	Types and numbers of losses previously encountered (stillbirth, miscarriage, ectopic, termination for fetal anomaly, PUL)	Yes/No
Any previous termination	Questionnaire	Yes/No	Yes/No
Any live children	Questionnaire	Yes – one/ Yes – two/ Yes- three/ Yes – four or more/ No	Yes/No
Ethnicity	Questionnaire	White British/ White Other/ South East Asian/ South Asian/ Asian Other/ Arab/ Black African/ Black Caribbean/ Black other/ Mixed	Asian/ Black/ Other/ White British/ White other

* Date of diagnosis as non-viable pregnancy: i.e. if diagnosed as molar on later histological diagnosis, date of scan confirming non-viability

Abbreviations: IVF – in vitro fertilisation

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Supplementary Table 2 AUC, Nagelkerke R2 and p value for each morbidity (anxiety, depression and post-traumatic stress) separately. Displayed in order of strength of the obtained AUC for any morbidity.

Predictor	Anxiety			Depression			PTS		
	AUC	R2	P value	AUC	R2	P value	AUC	R2	P value
Psychiatric disorder (Ref = no)	0.60 (0.54;0.65)	0.062	<0.0001	0.64 (0.56;0.72)	0.077	<0.0001	0.61 (0.55;0.66)	0.076	<0.0001
Any previous losses (no=0;yes=1)	0.59 (0.53;0.65)	0.036	0.0006	0.64 (0.56;0.72)	0.063	<0.0001	0.57 (0.52;0.63)	0.027	0.0026
Ethnicity (5 categories)	0.60 (0.54;0.66)	0.039	0.01	0.64 (0.56;0.71)	0.061	0.005	0.56 (0.50;0.61)	0.015	0.29
Time to conceive (3 categories)	0.55 (0.49;0.60)	0.010	0.20	0.57 (0.49;0.65)	0.017	0.13	0.58 (0.52;0.64)	0.036	0.0021
Final diagnosis (miscarriage, ectopic, other)	0.53 (0.47;0.58)	0.004	0.54	0.56 (0.48;0.64)	0.016	0.15	0.53 (0.47;0.58)	0.005	0.42
Final management (surgical, medical, conservative)	0.51 (0.45;0.57)	0.001	0.90	0.56 (0.48;0.64)	0.012	0.24	0.55 (0.49;0.60)	0.011	0.15
Fetal Heart (no=0; yes=1) (Miscarriage only)	0.52 (0.45;0.59)	0.002	0.76	0.55 (0.46;0.64)	0.010	0.37	0.53 (0.46;0.59)	0.007	0.40
Age (in years)	0.50 (0.44;0.56)	0.000	0.89	0.55 (0.46;0.63)	0.005	0.26	0.52 (0.46;0.58)	0.000	0.78
Education (5 categories)	0.54 (0.48;0.60)	0.013	0.39	0.55 (0.47;0.63)	0.033	0.09	0.53 (0.47;0.58)	0.004	0.85
Overnight admission (no=0;yes=1)	0.54 (0.48;0.60)	0.011	0.06	0.52 (0.44;0.60)	0.002	0.5	0.52 (0.46;0.57)	0.002	0.39
Previous termination (no=0;yes=1)	0.54 (0.48;0.60)	0.008	0.11	0.56 (0.48;0.64)	0.015	0.05	0.53 (0.47;0.59)	0.005	0.19
Previous children (no=0;yes=1)	0.51 (0.45;0.57)	0.000	0.68	0.52 (0.44;0.60)	0.002	0.53	0.54 (0.49;0.60)	0.009	0.09
Days to diagnosis (days)	0.50 (0.44;0.56)	0.001	0.67	0.54 (0.46;0.62)	0.001	0.57	0.50 (0.45;0.56)	0.001	0.56
IVF pregnancy (no=0;yes=1)	0.51 (0.45;0.57)	0.002	0.37	0.52 (0.44;0.60)	0.004	0.33	0.52 (0.46;0.57)	0.004	0.25
Gestational age (days)	0.53 (0.47;0.60)	0.005	0.25	0.54 (0.45;0.63)	0.005	0.31	0.51 (0.44;0.57)	0.000	0.91

Abbreviations: IVF – in vitro fertilisation