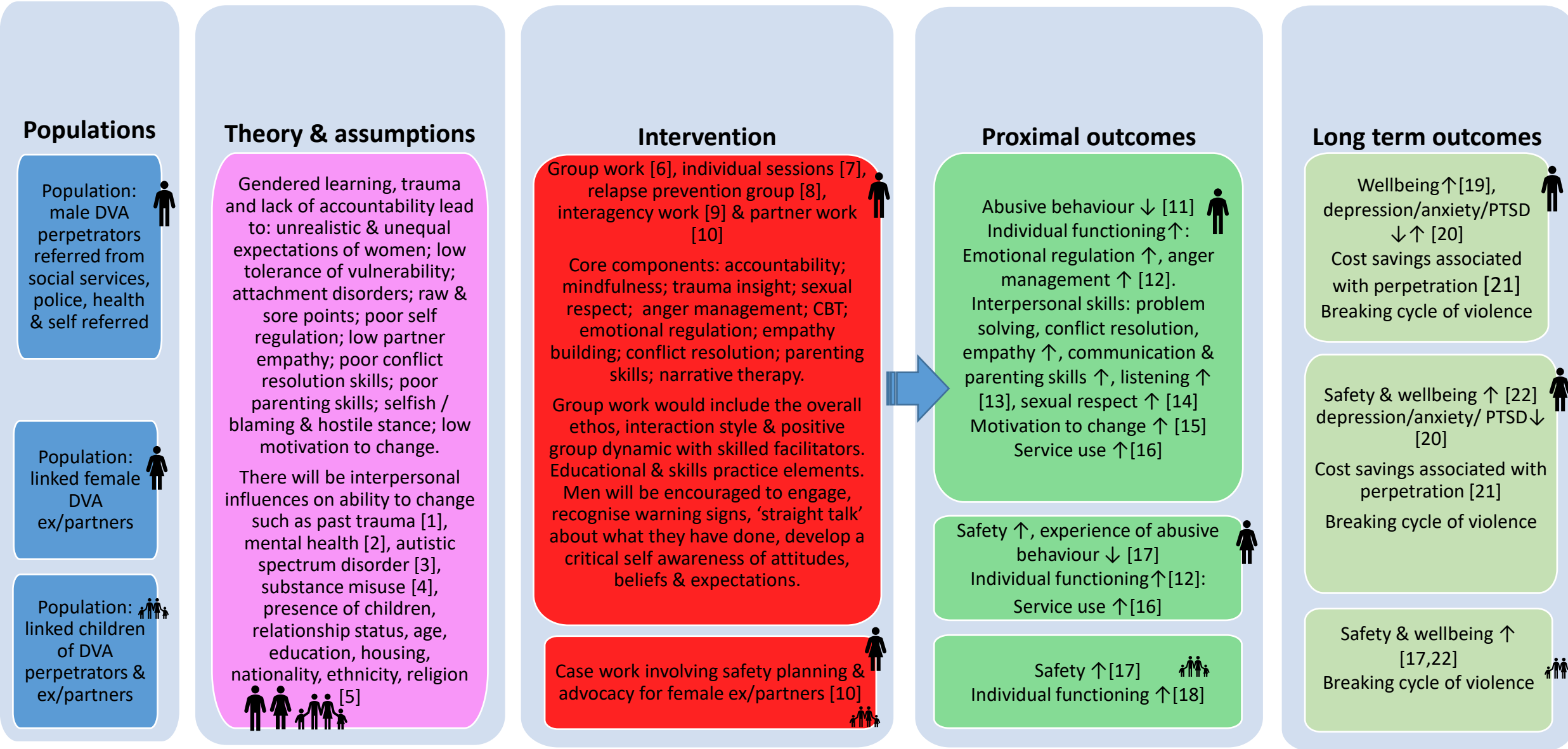


Additional file 1. Logic model

Problem: there is limited evidence that domestic violence perpetrator programmes are effective

Goal: to increase safety & reduce abuse for partners & ex partners of DV perpetrators 



Evaluation key for logic model

Variable		Method of evaluation or measurement	
1.	Past trauma	1.	Self-report on childhood experiences. PC-PTSD-5. Interviews.
2.	Mental health	2.	Self-report PHQ-9, GAD-7, PC-PTSD-5. ICE-CAP, EQ5-D & SF-12 Interviews.
3.	Autistic spectrum disorder	3.	Perpetrator only self-report AQ-10. Interviews.
4.	Substance misuse	4.	Self-report AUDIT C, DUDIT. Interviews.
5.	Sociodemographic characteristics: presence of children, age, education, housing, nationality, ethnicity, religion	5.	Self-report on children, relationship status, age, housing, nationality, employment status, income, ethnicity, religion.
6.	Group intervention	6.	Group work would include the overall ethos, interaction style & positive group dynamic with skilled facilitators. Educational & skills practice elements. Men will be encouraged to engage, recognise warning signs, ‘straight talk’ about what they have done, develop a critical self awareness of attitudes, beliefs & expectations. Fidelity analysis to principles of programme & (basic) adherence to manual from sample of videoed and observed sessions + implementation support from Respect
7.	1-to-1 support	7.	Number and type of 1-to-1 support, referrals made, court reports, agency contact. Interviews.
8.	Relapse prevention group (RPG)	8.	Number of RPG sessions attended. Interviews.
9.	Interagency work	9.	Reports from DVPP coordinator & facilitators, court reports, SAEs. Interviews with DVPP staff.
10.	Support from women’s safety worker	10.	Number and type of contacts with women’s safety worker, court reports, SAEs. Interviews.
11.	Abusive behaviour	11.	Perpetrator self-report Abusive Behaviour Inventory + impact measures from IMPACT TOOLKIT + Propensity for Abusiveness Scale + adapted-IPVRAS. Police reports + SAEs. Reports from DVPP coordinator & facilitators. Interviews.
12.	(Perpetrator) Individual functioning: Emotional regulation, anger management	12.	Perpetrator self-report. PHQ-9, GAD-7, PC-PTSD-5, ICE-CAP & SF-12 (emotional regulation), Propensity for Abusiveness Scale (anger). Interviews.
13.	Interpersonal skills: problem solving, conflict resolution, empathy, communication & parenting skills, listening	13.	Adapted-IPVRAS (self reflection), Adapted communications patterns questionnaire- short form (conflict resolution, listening, empathy, listening, self reflection), Propensity for Abusiveness Scale (self reflection). + impact measures on parenting from IMPACT TOOLKIT. Reports from DVPP coordinator and facilitators. Referrals made, court reports, agency contact. Interviews.
14.	Sexual respect	14.	Abusive Behaviour Inventory (sexual items) – perpetrator & Victim. Interviews.
15.	Motivation to change	15.	Adapted-IPVRAS (responsibility attribution). Initial assessment from DVPP coordinator. Reports from DVPP coordinator and facilitators.
16.	Service use		Attendance and completion of DVPP. RPG attendance. DNA information. Questionnaire completion. Interviews.
17.	Victim safety & experience of abusive behaviour	16.	Self report use of health and social services, medication use, housing, employment and benefits, use of children’s services. EQ5D, , ICE-CAP, CHU-9D + impact measures from IMPACT TOOLKIT. Criminal justice system costs through police reports (perpetrator only). Referrals made, court reports, agency contact. SAEs, GP records. Interviews.
18.	Child individual functioning	17.	Victim self-report ABI, SF12(v2), EQ5D, PHQ-9, GAD-7, PC-PTSD-5. AUDIT C, DUDIT. SAEs . Interviews.
19.	Perpetrator wellbeing	18.	Parent (victim) report ICECAP-A . Interviews with victim. Impact measures from IMPACT TOOLKIT
20.	Depression/anxiety/PTSD	19.	Self-report SF12(v2) EQ5D, PHQ-9, GAD-7, PC-PTSD-5. AUDIT C, DUDIT. Interviews.
21.	Cost effectiveness	20.	PHQ-9, GAD-7, PC-PTSD-5. SF12(v2) EQ5D, ICE-CAP. SAEs. Interviews.
22.	Victim safety & wellbeing	21.	Cost effectiveness analysis accounting for intervention costs, criminal justice costs and self-report service costs.
		22.	Victim self-report SF12(v2) EQ5D, ICE-CAP, PHQ-9, GAD-7, PC-PTSD-5. AUDIT C, DUDIT. SAEs . Interviews.