

# Reproductive control by others: means, perpetrators and effects

Sam Rowlands,<sup>1</sup> Susan Walker<sup>2</sup>

<sup>1</sup>Faculty of Health and Social Sciences, Bournemouth University, Bournemouth, UK  
<sup>2</sup>Faculty of Health, Social Care and Education, Anglia Ruskin University, Chelmsford, UK

**Correspondence to**  
 Professor Sam Rowlands,  
 Centre of Postgraduate Medical Research and Education,  
 Bournemouth University,  
 Bournemouth BH1 3LT, UK;  
 srowlands@bournemouth.ac.uk

Received 7 June 2018  
 Revised 26 October 2018  
 Accepted 20 November 2018

## ABSTRACT

**Background** Reproductive control of women by others comprises a wide range of behaviours, from persuasion to pressure such as emotional blackmail, societal or family expectations, through to threats of or actual physical violence. It is defined as behaviours that interfere with women's reproductive autonomy as well as any actions that pressurise or coerce a woman into initiating or terminating a pregnancy  
**Method** Narrative review based on a search of medical and social science literature.

**Results** Reproductive control by others includes control or coercion over decisions about becoming pregnant and also about continuing or terminating a pregnancy. It can be carried out by intimate partners, the wider family, or as part of criminal behaviour. One form is contraceptive sabotage, which invalidates the consent given to sex. Contraceptive sabotage includes the newly-described behaviour of 'stealthing': the covert removal of a condom during sex. Reproductive control by others is separate from intimate partner violence but there are similarities and the phenomena overlap. Reproductive control by others is reported by as many as one quarter of women attending sexual and reproductive healthcare services. Those treating such women should be familiar with the concept and how to ameliorate its effects. Screening questions for its detection have been developed as well as interventions to reduce its risk.

**Conclusions** Reproductive control by others is common and those working in women's health should be familiar with the concept and with screening tools used to detect it.

## BACKGROUND

Women should be able to choose freely whether and when they wish to have a family. In other words, they should have reproductive autonomy; by definition, reproductive autonomy means being free from coercion and violence.<sup>1</sup> Various barriers to this exist,<sup>2</sup> which are the topic of this review.

## Key messages

- ▶ Control over women's reproductive autonomy by others is common and healthcare professionals need to ask specific questions about it.
- ▶ Control or coercion over decision-making about use of contraception or about an established pregnancy comes in a wide range of forms.
- ▶ Contraceptive sabotage is deliberate interference with agreed use of contraception, so invalidating consent to sex.

While intimate partner violence and reproductive coercion can occur between same sex couples and can be perpetrated by women on men,<sup>3</sup> the focus of this review is reproductive coercion in which women are the coerced party. Reproductive control (RC) by others is common and many women presenting to contraception and sexual health services may be currently subject to it, may have experienced it in the past or may be at risk of experiencing it. RC may be a factor in contraceptive 'failure' or non-adherence; frequent requests for emergency contraception; for pregnancy or sexually transmitted infection (STI) testing; or in having more than one abortion. This review is aimed at readers without specific knowledge of intimate partner violence and seeks to clarify the forms which RC can take, summarises relevant epidemiology, examines types of perpetrator and finishes with suggestions for screening for, and identifying, women experiencing it.

Reproductive coercion was first described in a systematic review in 2010.<sup>4</sup> More recent reviews cover literature up to the year 2015 in the USA<sup>5</sup> and in other countries.<sup>6</sup> Our review goes wider than previous reviews in its remit, to include



© Author(s) (or their employer(s)) 2019. No commercial re-use. See rights and permissions. Published by BMJ.

**To cite:** Rowlands S, Walker S. *BMJ Sex Reprod Health* 2019;**45**:61–67.

**Table 1** Review search parameters

Parameter	Definition
Inclusion criteria	Heterosexual relationships Reproductive control (RC) of women by men RC as criminal activity
Exclusion criteria	Same-sex relationships RC of men by women Negotiation of condom use Outcomes following RC, eg, sexually transmitted infections Intimate partner violence Coercion by HCPs to use LARC Coercion by HCPs to be sterilised Coercion by the state
Language	Abstract in English
Date range	2010 to 2017

HCPs, healthcare professionals; LARC, long-acting reversible contraception.

family pressure and criminal activity, and extends the time period to 2017.

### METHODOLOGY

MEDLINE, CINAHL, PsycINFO, SocINDEX, Academic Search and British Library searches were conducted for the terms ‘reproductive coercion’, ‘reproductive control’ and ‘contraceptive sabotage’ since 2010, when the concept was first reported in mainstream sexual and reproductive health literature. Search parameters are shown in [table 1](#). This narrative review describes a range of behaviours but does not attempt to analyse underlying motivations.

### WHAT IS REPRODUCTIVE CONTROL?

#### Definition

RC over women, in the context of this review, is external and exerted by others. It is not to be confused with methods of fertility control (or birth control) which allow women themselves to be in control of their own reproductive lives.

RC of women by others comprises a wide range of behaviours, from persuasion to pressure such as emotional blackmail, societal or family expectations,

through to threats of or actual physical violence. It can be defined as actions that interfere with a woman’s reproductive intentions and any actions that pressurise or coerce a woman into initiating or terminating a pregnancy.<sup>5,7</sup> In this review the authors define RC more widely than many others, in the context of gendered control, coercion and violence.<sup>8</sup> RC fundamentally interferes with women’s reproductive autonomy generally<sup>9</sup> and with their autonomous sexual decision-making more specifically.<sup>10</sup> Reproductive coercion is a subset of RC and occurs when a credible threat of harm or force is made to control a woman.<sup>5,11</sup> The perpetrators of RC and reproductive coercion may be sexual partners, but can extend beyond the intimate partner relationship, as outlined below.

RC is mediated through the decisions around whether or not to start, continue or terminate a pregnancy, including deployment of contraception, and may be exercised at various times in relation to intercourse, conception, gestation and delivery. It may occur before or during sex, with a refusal to use contraception, during the period of attempting to conceive or at any time in the gestation of an established pregnancy.<sup>12</sup> RC is associated with negative mental health outcomes.<sup>13</sup>

#### Perpetrators of reproductive control

In addition to intimate partners, the sources of RC include wider family members, acting alone or together. Cultural and social norms in a society can reinforce RC and may link individual and family behaviour.

### EPIDEMIOLOGY

As many as one-quarter of women of reproductive age attending for sexual and reproductive health services give a history of ever having suffered RC (see [table 2](#)). A negative association has been found between RC and contraceptive and sexual self-efficacy (planning for and assumption of responsibility for the direction of sexual activity and responsibility for contraceptive use).<sup>10</sup>

It has been known for some time that unintended pregnancy occurs more frequently in abusive

**Table 2** Prevalence of reproductive control in women

Study	Year of publication	Country	Age (years)	Population/setting	Timespan	Result (%)
Black, <i>et al</i> <sup>54</sup>	2011	USA	18 and over	Whole population	Ever	9
Cannon, <i>et al</i> <sup>55</sup>	2017	USA	‘Adult’	SRH	Current relationship	25
Clark, <i>et al</i> <sup>23</sup>	2014	USA	18–44	Hospital O&G	Ever	16
Katz, <i>et al</i> <sup>10</sup>	2015	USA	17–25	Students	Ever	30
Kazmerski, <i>et al</i> <sup>17</sup>	2015	USA	16–29	SRH	Previous 3 months	14
Miller, <i>et al</i> <sup>15</sup>	2010	USA	16–29	SRH	Ever	19
Phillips, <i>et al</i> <sup>56</sup>	2016	USA	18–45	Primary care	Ever	24
Rosenfeld, <i>et al</i> <sup>57</sup>	2017	USA	18–44	Veterans	Previous 12 months	11
Sutherland, <i>et al</i> <sup>26</sup>	2015	USA	18–25	Students	Ever	8

O&G, obstetrics and gynaecology service attenders; SRH, sexual and reproductive health service attenders.

relationships.<sup>14</sup> Miller *et al* found that the risk of unintended pregnancy doubled in those who suffered both intimate partner violence (IPV) and reproductive coercion.<sup>15</sup> Several studies have shown a positive association between RC and unintended pregnancy.<sup>10 16 17</sup> A positive association has also been found between IPV and having an abortion; the association is even more pronounced when the women undergoing an abortion report that their partner has no knowledge of the abortion.<sup>18</sup> There is a strong positive association between RC and IPV.<sup>15 19–21</sup> Women experiencing IPV are twice as likely to have a male partner who refuses to use contraception and to report unintended pregnancy and up to three times more likely to give birth as an adolescent, compared with those not experiencing such violence.<sup>9</sup>

Past experiences of RC decrease the odds of contraceptive use at last vaginal sex.<sup>10</sup> Women who have recently experienced RC are more likely to request pregnancy testing and STI testing and to seek emergency contraception.<sup>17</sup> Among US women in a reproductive healthcare setting, black and multiracial ethnicity are both positively associated with RC.<sup>22–24</sup> Younger women are more frequent victims of RC,<sup>16 25</sup> and it is more likely to occur in longer-term relationships than with casual partners.<sup>10</sup>

## FORMS OF REPRODUCTIVE CONTROL PERPETRATED BY INTIMATE PARTNERS

### Unprotected sex

One of the the most common RC behaviours is for male partners to tell women not to use contraception.<sup>26</sup> Partners themselves may also refuse to use condoms or tell a woman later that they did not use a condom.<sup>27</sup> In addition to this, some women may be prevented from obtaining initial or repeat supplies of contraception.<sup>25</sup> Women report that their partners want to have children, particularly male children, or may want to maintain a permanent connection with their female partner.<sup>5 25</sup> Emotional blackmail may be used, for example, ‘You would have my baby if you loved me’.<sup>4</sup> More serious threats of actual violence, deprivation of food, threats of removal of children or actual forced intercourse may also be used.<sup>25 26</sup> Partner infidelity is a common associated behaviour.<sup>25</sup>

### Contraceptive sabotage

As with the topic of RC in general, contraceptive sabotage can be perpetrated by various means: from a reluctance or poor effort to use condoms,<sup>28</sup> through to a violent and invasive removal of an intrauterine contraceptive device. It includes ‘stealthings’, first publicised by Alexandra Brodsky in April 2017.<sup>29</sup> This is defined as the non-consensual, surreptitious removal of a condom during sex, when consent has been given only for condom-protected sex. Alternatively, a male partner may falsely state that he has had a vasectomy. The most common means of contraceptive sabotage

are failure to practise withdrawal, as previously agreed, or non-use of condoms. Contraceptive sabotage also includes various actions including piercing condoms or other barrier methods, throwing away supplies of oral contraceptives or forcibly removing transdermal patches, vaginal rings or intrauterine devices.<sup>5</sup>

Contraceptive sabotage interacts and overlaps with sexual coercion and violence. In such cases, consent to sex has been given on the understanding that contraception will be used. Contraceptive sabotage thus invalidates consent, but there are complicated arguments as to how any legal redress would be sought against saboteurs.<sup>29–31</sup> Currently, in most jurisdictions, it seems likely that cases of contraceptive sabotage taken to court would be unsuccessful. However, in Canada, a man did receive an 18 month prison sentence for depriving his partner of her ability to consent to sex.<sup>32</sup>

### Women’s actions to reassert reproductive autonomy

Women’s reactions to RC include capitulation, seeking contraceptive methods that can be used covertly, or ending the relationship. In some studies women report attempting to avoid pregnancy by concealing their use of contraception. Contraceptives with varying degrees of concealability are injections, implants, intrauterine devices and sterilisation. Injectables are ‘invisible’ as there are no tell-tale signs (palpable rod, threads at the cervix or abdominal scars). But even when concealable contraceptives are being deployed, a partner may discover an appointment on a card, in an email or on a smartphone. Some women being subjected to IPV will be put off using concealable methods because of the fear of retaliation if their partner were to find out. Experience of RC is associated with fear of asking a partner to use a condom and fear of the consequences of refusing to have sex with a partner.<sup>22</sup> Women in violent relationships risk an escalation of violence if they try to negotiate contraceptive use.<sup>25</sup>

Pregnancy testing may also need to be concealed. Flushable pregnancy tests have become available, the advantage of which (in addition to their ecological credentials) is that no ‘evidence’ of having used them remains to be discovered.<sup>33</sup>

### Coerced continuation of a pregnancy

RC can include the insistence on continuation of a pregnancy which the woman regards as unintended or unwanted.<sup>6</sup> It is carried out by a variety of means ranging from physical violence, threats of violence or forced sex, to more subtle acts such as threats to withhold resources or to have a baby with someone else, if the pregnancy is terminated. Some partners refuse to provide childcare or transport on the day of an appointment with an abortion provider or sabotage a woman’s fasting regimen before her procedure under general anaesthetic.<sup>5</sup>

Medical abortion may suit a woman being subjected to RC better than surgical abortion.<sup>34</sup> There is no

post-anaesthetic recovery necessary and women can attribute the bleeding to a spontaneous miscarriage. Jurisdictions that allow misoprostol to be taken at home greatly facilitate this process.

#### Forced or induced termination of an established pregnancy

Induced (therapeutic) abortion may be coerced<sup>35</sup> or a woman may be assaulted with the intention of causing a miscarriage. It has been shown that exposure to gender-based violence predicts having an abortion.<sup>36 37</sup> A survey of lower-income US men demonstrated that those who admitted that they had perpetrated IPV were more likely than those who had not to have been involved with a pregnancy that ended in abortion.<sup>38</sup> The abusive men were also more likely to have been in conflict with their partner at the time over the pregnancy, either in seeking to force an abortion or to prevent an abortion.

At the extreme end of the spectrum, male partners have covertly spiked either food or drink with abortifacients. This criminal activity has been reported from Norway,<sup>39</sup> the UK<sup>40</sup> and the USA<sup>41</sup> (including two perpetrators who were doctors, abusing their privileged access to prescription-only drugs) and is usually punished by imprisonment. In Brazil, two criminal cases of older men meeting teenage girls for sex involved pregnancies being ended by surreptitious vaginal application of misoprostol.<sup>42</sup>

#### REPRODUCTIVE CONTROL PERPETRATED BY THE WIDER FAMILY

In some settings, in-laws may perpetrate gender-based violence through a wide variety of types of abuse during pregnancy, at delivery and postpartum.<sup>43</sup> The degree to which such abuse during pregnancy overlaps with RC is not known.

#### Control over family size

In some cultural settings, the wider family and in particular older female relatives may have societally endorsed control over reproductive decision-making. Patriarchal cultural norms, and contexts wherein brides live with the husband's family, may facilitate this kind of control. Examples from the literature include reports that assent from mothers-in-law is often necessary for decision-making on the composition of the family (one or two sons usually being thought to be needed) and also for sterilisation (a signal that the family is complete and the most common form of fertility control used in India).<sup>44</sup> Contraceptive sabotage by proxy can occur. An example from the literature is a mother-in-law who puts pressure on her son not to use condoms.<sup>44</sup> Women with no sons may have low status and may suffer discrimination, which can act as an emotional means of controlling reproductive intention.

#### Coerced conception and pressure to conceive or continue a pregnancy

In some situations the in-law family can exert a profound degree of control over their daughter-in-law's life if she is slow to conceive or does not conceive.<sup>45</sup> This may consist of forcing a woman to abandon use of contraception, or telling their son to leave her, have a baby with someone else or otherwise to punish her through emotional or physical abuse. Deprivations commonly inflicted on a daughter-in-law are restrictions to the supply of food, confining her to the house, and other insults and humiliations. Family abusers use the same methods as partner abusers<sup>11</sup>; this behaviour is domestic violence but extends more widely than IPV.

In addition to coerced conception, coercion to continue with an established pregnancy against the wishes of the woman may originate from the wider family.<sup>6</sup>

#### Forced termination of a pregnancy

RC in the form of forced abortion of a wanted pregnancy may be perpetrated against women by the wider family. Coerced abortion may be part of a violent behaviour pattern, which includes IPV, rape and sometimes incest within families.<sup>36</sup> In South Asia in particular, there are reports of abuse of women during pregnancy by in-laws, including forced abortion.<sup>43</sup> The abuse may be based on intergenerational discordance between the family-building intentions of a woman and the expectations of the in-laws.<sup>37</sup>

#### PERPETRATORS INVOLVED IN SEX TRAFFICKING AND SEXUAL EXPLOITATION

Coerced abortion may also be part of organised criminal activity. This includes child sexual exploitation.<sup>46</sup> The pimp-prostitute relationship often exhibits coercive control and violence similar to IPV.<sup>47</sup> Coerced abortion has been described in victims of sex trafficking in the USA.<sup>48</sup>

#### DETECTION, EDUCATION, HARM REDUCTION AND PREVENTION

Women subjected to RC may not necessarily have insight into their relationship, especially if there is no physical or sexual violence.<sup>4</sup> The degree of control that a male partner can have will vary from mild to extreme. Milder amounts of control may not be perceived by the victim as unhealthy or abusive. Women in a long-term relationship may become inured to significant levels of RC.

Screening for RC should take place in maternity, sexual and reproductive health and abortion services and in general practice settings. Suggested screening questions have been formulated (see [Figure 1](#)).<sup>49</sup> Professionals have the opportunity not only to detect RC, but to discuss healthy relationships. Where necessary, help with negotiating condom use and, if RC is

<i>If not pregnant:</i>
Does your partner support your decision about when or if you want to become pregnant?
<i>If not trying to become pregnant:</i>
Has your partner ever tried to get you pregnant when you did not want to be pregnant?
Has your partner ever refused your request to use condoms?
<i>If already pregnant:</i>
Do you and your partner agree on what you should do about your pregnancy?

**Figure 1** Screening questions for reproductive control.

disclosed, employing concealable methods may be offered. Healthcare professionals can also ensure that women know how to access emergency contraception. Injectables, implants, intrauterine contraception (if necessary with the threads cut short to avoid detection) and sterilisation are possible concealable methods of contraception. This advice should take place within the wider context of helping women minimise or escape from situations of domestic violence, and of safeguarding activity.

There are examples of excellent educational materials on RC that have been developed.<sup>50 51</sup> An educational intervention was found to reduce the odds of pregnancy coercion by 71% and to significantly increase the odds of ending a relationship due to perceptions that it was unhealthy.<sup>52</sup> The ARCHES (Addressing Reproductive Coercion in Health Settings) study is under way; this will provide information about the efficacy of a brief intervention on the risk of RC.<sup>53</sup>

## DISCUSSION

### Findings and interpretation

RC is common; professionals working in women's health, sexual and reproductive health, abortion and maternity services should be aware of the concept and be equipped to screen for it. RC is primarily carried out by intimate partners, but it is also perpetrated by the wider family and in organised criminal activity. The perpetrators' focus of control may vary, at times coercing pregnancy and at other times coercing abortion. Coerced abortion may be part of sex trafficking or sexual exploitation.

RC infringes women's reproductive rights and erodes women's reproductive autonomy. Past experience of RC adversely affects women's feelings of agency during sexual and contraceptive interactions.

### Relevance of the findings and implications for clinicians or policymakers

Those working in health and social care specialties relating to women's health, and in general practice, should be aware of RC; it may be an underlying cause of contraceptive non-adherence. Healthcare professionals should be alert to it in consultations with women who

are displaying behavioural patterns such as persistent lack of use of contraception (despite not wishing to become pregnant), frequent requests for emergency contraception, frequent attendances for pregnancy testing or STI testing, and requests for more than one abortion.

There are now screening questions for its detection and interventions that can assist in reducing its risks. Women attending health services with escorts should, at some stage, be seen alone so that these sensitive issues can be raised and, if necessary, explored. Information may need to be shared with safeguarding agencies, especially with respect to younger women, or those who lack mental capacity.

Public health policymakers need to take account of RC as a causative factor in unintended pregnancy. The findings in this review reinforce the importance of teaching children about healthy relationships, including respect for partners and open communication about contraceptive use.

### Unanswered questions and future research

Research so far has been almost exclusively undertaken in the USA; research in other countries is to be encouraged. There remains much to be learnt about RC and how it affects women. In particular, more research is needed on the non-physical elements of abusive relationships and how coercive control can be resisted. Also, more needs to be understood about whether RC relates to a particular partner or whether RC experiences with one partner negatively impact future sexual relationships.

More understanding of perpetrators' motivations for engaging in RC is needed. Further research should be conducted on the reasons partners engage in RC behaviours, as well as women's perceptions of partner intent. Young people are especially vulnerable to RC and research is needed which focuses on the dating relationships of young people.

As always, in an era of shrinking resources and overstretched healthcare professionals, the most efficient and effective means of using routine healthcare consultations to identify and reduce the harms of RC need to be identified and disseminated.

**Acknowledgements** We thank Dr Victoria Newton for her helpful comments on an earlier draft of the manuscript.

**Contributors** SR conceived the idea for this review and wrote the first draft. SR and SW contributed to subsequent drafting. Both authors approved the final manuscript.

**Funding** The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

**Competing interests** None declared.

**Patient consent for publication** Not required.

**Provenance and peer review** Not commissioned; externally peer reviewed.

## REFERENCES

- Shalev C. Rights to sexual and reproductive health: the ICPD and the convention on the elimination of all forms of discrimination against women. *Health Hum Rights* 2000;4:38–66.
- Fawson PR, Wright RL, Jones T, *et al.* Addressing barriers to reproductive autonomy among sexually active female university students in the United States. *Women Health Open J* 2017;1:S3–9.
- Park J, Nordstrom SK, Weber KM, *et al.* Reproductive coercion: unclinking an imbalance of social power. *Am J Obstet Gynecol* 2016;214:74–8.
- Miller E, Silverman JG. Reproductive coercion and partner violence: implications for clinical assessment of unintended pregnancy. *Expert Rev Obstet Gynecol* 2010;5:511–5.
- Grace KT, Anderson JC. Reproductive coercion: a systematic review. *Trauma Violence Abuse* 2018;19:371–90.
- Grace KT, Fleming C. A systematic review of reproductive coercion in international settings. *World Med Health Policy* 2016;8:382–408.
- Miller E, Jordan B, Levenson R, *et al.* Reproductive coercion: connecting the dots between partner violence and unintended pregnancy. *Contraception* 2010;81:457–9.
- Williamson E. Reproductive coercion. In: McOrmond-Plummer L, Levy-Peck JY, Eastaek P, eds. *Intimate partner sexual violence*. London: Jessica Kingsley, 2014.
- Silverman JG, Raj A. Intimate partner violence and reproductive coercion: global barriers to women's reproductive control. *PLoS Med* 2014;11:e1001723.
- Katz J, Polshuck EL, Beach B, *et al.* Reproductive coercion by male sexual partners: associations with partner violence and college women's sexual health. *J Interpers Violence* 2017;32:3301–20.
- Williamson E. Living in the world of the domestic violence perpetrator: negotiating the unreality of coercive control. *Violence Against Women* 2010;16:1412–23.
- Moore AM, Frohworth L, Miller E. Male reproductive control of women who have experienced intimate partner violence in the United States. *Soc Sci Med* 2010;70:1737–44.
- McCauley HL, Falb KL, Streich-Tilles T, *et al.* Mental health impacts of reproductive coercion among women in Côte d'Ivoire. *International Journal of Gynecology & Obstetrics* 2014;127:55–9.
- Hathaway JE, Mucci LA, Silverman JG, *et al.* Health status and health care use of Massachusetts women reporting partner abuse. *Am J Prev Med* 2000;19:302–7.
- Miller E, Decker MR, McCauley HL, *et al.* Pregnancy coercion, intimate partner violence and unintended pregnancy. *Contraception* 2010;81:316–22.
- Miller E, McCauley HL, Tancredi DJ, *et al.* Recent reproductive coercion and unintended pregnancy among female family planning clients. *Contraception* 2014;89:122–8.
- Kazmerski T, McCauley HL, Jones K, *et al.* Use of reproductive and sexual health services among female family planning clinic clients exposed to partner violence and reproductive coercion. *Matern Child Health J* 2015;19:1490–6.
- Hall M, Chappell LC, Parnell BL, *et al.* Associations between intimate partner violence and termination of pregnancy: a systematic review and meta-analysis. *PLoS Med* 2014;11:e1001581.
- Willie TC, Powell A, Callands T, *et al.* Investigating intimate partner violence victimization and reproductive coercion victimization among young pregnant and parenting couples: a longitudinal study. *Psychol Violence* 2017 <http://psycnet.apa.org/doiLanding?doi=10.1037%2Fvio0000118>
- Falb KL, Annan J, Kpebo D, *et al.* Reproductive coercion and intimate partner violence among rural women in Côte d'Ivoire: a cross-sectional study. *Afr J Reprod Health* 2014;18:61–9.
- Northridge JL, Silver EJ, Talib HJ, *et al.* Reproductive coercion in high school-aged girls: associations with reproductive health risk and intimate partner violence. *J Pediatr Adolesc Gynecol* 2017;30:603–8.
- Thaller J, Messing JT. Reproductive coercion by an intimate partner: occurrence, associations, and interference with sexual health decision making. *Health Soc Work* 2016;41:e11–9.
- Clark LE, Allen RH, Goyal V, *et al.* Reproductive coercion and co-occurring intimate partner violence in obstetrics and gynecology patients. *Am J Obstet Gynecol* 2014;210:42.e1–8.
- Holliday CN, McCauley HL, Silverman JG, *et al.* Racial/ethnic differences in women's experiences of reproductive coercion, intimate partner violence, and unintended pregnancy. *J Womens Health* 2017;26:828–35.
- Thiel de Bocanegra H, Rostovtseva DP, Khera S, *et al.* Birth control sabotage and forced sex: experiences reported by women in domestic violence shelters. *Violence Against Women* 2010;16:601–12.
- Sutherland MA, Fantasia HC, Fontenot H. Reproductive coercion and partner violence among college women. *J Obstet Gynecol Neonatal Nurs* 2015;44:218–27.
- Nikolajski C, Miller E, McCauley HL, *et al.* Race and reproductive coercion: a qualitative assessment. *Women's Health Issues* 2015;25:216–23.
- Teitelman AM, Tennille J, Bohinski JM, *et al.* Unwanted unprotected sex: condom coercion by male partners and self-silencing of condom negotiation among adolescent girls. *ANS Adv Nurs Sci* 2011;34:243–59.
- Brodsky A. "Rape-adjacent": imagining legal responses to nonconsensual condom removal. *Columbia J Gender & Law* 2017;32:183–210.
- Trawick SM. Birth control sabotage as domestic violence: a legal response. *California Law Review* 2012;100:721–60.
- Plunkett LA. Contraceptive sabotage. *Columbia J Gender & Law* 2014;28:97–143.
- CBC News. Condom piercer loses Supreme Court appeal Ottawa: CBC/Radio Canada. 2014. <http://www.cbc.ca/news/canada/nova-scotia/condom-piercer-loses-supreme-court-appeal-1.2563227> (Accessed 7 Mar 2018).
- Bell T. A new flushable pregnancy test could help women in abusive relationships. *Vice*. 2018.
- Kaity. *It happened to me: I experienced reproductive coercion and gave myself an abortion*. New York: xoJane, 2015.

- 35 Chibber KS, Biggs MA, Roberts SCM, *et al.* The role of intimate partners in women's reasons for seeking abortion. *Women's Health Issues* 2014;24:e131–38.
- 36 McCloskey LA. The effects of gender-based violence on women's unwanted pregnancy and abortion. *Yale J Biol Med* 2016;89:153–9.
- 37 Pearson E, Andersen KL, Biswas K, *et al.* Intimate partner violence and constraints to reproductive autonomy and reproductive health among women seeking abortion services in Bangladesh. *Int J Gynaecol Obstet* 2017;136:290–7.
- 38 Silverman JG, Decker MR, McCauley HL, *et al.* Male perpetration of intimate partner violence and involvement in abortions and abortion-related conflict. *Am J Public Health* 2010;100:1415–7.
- 39 Anonymous. Man gets six years for abortion pill smoothie. *The Local* 2015.
- 40 Rowlands S. Abortion pills: under whose control? *J Fam Plann Reprod Health Care* 2012;38:117–22.
- 41 Phillips K. A doctor laced his ex-girlfriend's tea with abortion pills and got three years in prison. *Washington Post* 2018.
- 42 Diniz D, Madeiro A. Cytotec and abortion: the police, the vendors and women [in Portuguese]. *Ciênc saúde coletiva* 2012;17:1795–804.
- 43 Raj A, Sabarwal S, Decker MR, *et al.* Abuse from in-laws during pregnancy and post-partum: qualitative and quantitative findings from low-income mothers of infants in Mumbai, India. *Matern Child Health J* 2011;15:700–12.
- 44 Char A, Saavala M, Kulmala T. Influence of mothers-in-law on young couples' family planning decisions in rural India. *Reprod Health Matters* 2010;18:154–62.
- 45 Gupta J, Falb K, Kpebo D, *et al.* Abuse from in-laws and associations with attempts to control reproductive decisions among rural women in Côte d'Ivoire: a cross-sectional study. *BJOG* 2012;119:1058–66.
- 46 Alderson KA. Child sexual exploitation. *J Forensic Practice* 2016;18:292–5.
- 47 Raphael J, Reichert JA, Powers M. Pimp control and violence: domestic sex trafficking of Chicago women and girls. *Women Crim Justice* 2010;20:89–104.
- 48 Lederer LJ, Wetzel CA. The health consequences of sex trafficking and their implications for identifying victims in healthcare facilities. *Ann Health Law* 2014;23:61–91.
- 49 ACOG. Reproductive and sexual coercion. Committee opinion no. 5. *Obstet Gynecol* 2013;121:411–5.
- 50 Cappelletti M, Gatimu J, Shaw G. Exposing reproductive coercion: a toolkit for awareness raising, assessment, and intervention: FWHC, NCADV, NOMAS. 2014. <https://www.communitysolutionsva.org/files/RCToolkit%281%29.pdf>
- 51 Burton CW, Carlyle KE. Screening and intervening: evaluating a training program on intimate partner violence and reproductive coercion for family planning and home visiting providers. *Fam Community Health* 2015;38:227–39.
- 52 Miller E, Decker MR, McCauley HL, *et al.* A family planning clinic partner violence intervention to reduce risk associated with reproductive coercion. *Contraception* 2011;83:274–80.
- 53 Tancredi DJ, Silverman JG, Decker MR, *et al.* Cluster randomized controlled trial protocol: addressing reproductive coercion in health settings (ARCHES). *BMC Womens Health* 2015;15:57.
- 54 Black MC, Basile KC, Breiding MJ, *et al.* *The National Intimate Partner and Sexual Violence Survey (NISVS): 2010 summary report*. Atlanta, GA: National Center for Injury Prevention and Control, Centers for Disease Control and Prevention, 2011.
- 55 Cannon L, Bevilacqua K, Khan A, *et al.* Intimate partner violence, reproductive coercion, and contraception among patients in a reproductive health setting: a mixed methods study of patient preferences regarding a clinic-based intervention. *Injury Prevention* 2017;23(Suppl 1):A26.
- 56 Phillips SJ, Bennett AH, Hacker MR, *et al.* Reproductive coercion: an under-recognized challenge for primary care patients. *Fam Pract* 2016;33:286–9.
- 57 Rosenfeld EA, Miller E, Zhao X, *et al.* Male partner reproductive coercion among women veterans. *Am J Obstet Gynecol* 2018;218:239.e1–8.

## BMJ SEXUAL & REPRODUCTIVE HEALTH

Peer reviewed? Yes

Evidence type: Narrative review

Subjects: People

### 1 in 4 women at sexual health clinics reports coercion over their reproductive lives

*This includes 'contraceptive sabotage' such as covert removal of a condom during sex*

As many as one in four women attending sexual and reproductive healthcare services say they are not allowed to take control of their own reproductive lives, reveals a review of the available evidence, published today in **BMJ Sexual & Reproductive Health**.

As well as not being able to actively choose whether to use contraceptives, or start or continue with a pregnancy, this 'reproductive control' also takes the form of 'contraceptive sabotage', which includes covert removal of a condom during sex, so invalidating consent, the research shows.

The concept of reproductive coercion—control over women's reproductive autonomy by others—was first described in 2010.

The study authors wanted to update the available evidence to 2017, and to widen the spectrum of activities involved, to include family pressure and criminal behaviour, such as sex trafficking and exploitation.

They therefore searched relevant databases of medical and social sciences research, looking at women's experiences of interference with their reproductive autonomy.

They found that the practice is common, with as many as one in four women attending sexual and reproductive healthcare clinics reporting coercion over their reproductive lives. Younger women, and in the US, black and racial minority women, seem to be particularly vulnerable, the research indicates.

And in some cultures, the wider family, and older female relatives in particular, may have control over reproductive decision-making that is endorsed by society.

Reproductive control covers a wide range of behaviours, from persuasion through emotional blackmail, to threatened or actual infidelity and physical violence. It is predominantly perpetrated by male partners, but also by the wider family and criminal gangs, the evidence shows.

It includes not being allowed to make decisions about becoming pregnant and continuing or terminating a pregnancy, and contraceptive sabotage. This last interacts and overlaps with sexual coercion and violence, and effectively invalidates consent, say the study authors.

Examples of contraceptive sabotage include a male partner lying about having had 'the snip' (vasectomy); refusal to permit the use of contraceptives; forceful removal of contraceptive devices; failure to practise withdrawal during sex; piercing condoms or other barrier methods; and throwing away/hiding contraceptive pills.

And it includes 'stealthing,' whereby a condom is covertly removed during sex, and at the other end of the spectrum, spiking food and drink with agents known to induce abortion.

The negative consequences are many: undermining responsibility for contraceptive use; unintended or unwanted pregnancy; a higher risk of abortion; higher rates of testing for sexually transmitted infections and pregnancy and requests for emergency contraception.

Women may themselves respond by lying about their use of contraception, pregnancy testing, etc, and risk harm if they try to negotiate contraceptive use in a violent relationship.

But they may not always be aware that they are being subjected to reproductive control, especially if this isn't accompanied by physical or sexual violence, say the study authors.



“The degree of control that a male partner can have will vary from mild to extreme. Milder amounts of control may not be perceived by the victim as unhealthy or abusive. Women in a long term relationship may become inured to significant levels of reproductive control,” they write.

Healthcare professionals have a key role in picking up and preventing this form of abusive behaviour, they say, and call for more international research to help guide this.

“In particular, more research is needed on the non-physical elements of abusive relationships and how coercive control can be resisted,” they suggest.