



Bridging contraception after emergency contraception



Professor Sharon Cameron



Bridging to effective contraception

- EC only delays ovulation
- Quick-start effective ongoing contraception
- Pharmacy cannot provide regular contraception
- Wait to get appointment at a clinic, risk of unintended preg

- What if pharmacy provide interim 'bridging' supply of contraception?
- POP safe, few contraindications good option ?

Pilot of 'Bridging' POP after EC

- Pilot cluster randomised pharmacies
- LNG-EC user > 150
- POP 1 month (n=56)
- Rapid access to SRH (n=58)
- Standard care (n=54)
- Tele Fu 6-8 wks
- Higher % effective contraception

POP 56% vs 16% standard

Rapid access 52% vs 16%

Promising strategies to prevent more unintended pregnancies but a robust trial required

Michie et al Contra 2014

The Bridge-it study

- UK: Edinburgh, London, Dundee
- 29 pharmacies, cluster randomized, crossover
- N= 636 women oral LNG-EC
- Intervention: 3 months POP (desogestrel) & rapid access to SRH clinic (N=316)
- Control: standard care (N=320)
- Dec 2017- June 2019

Determine if the intervention results in greater use of effective contraception than EC and advice alone

Use of effective contraception following provision of the progestogen-only pill for women presenting to community pharmacies for emergency contraception (Bridge-It): a pragmatic cluster-randomised crossover trial



Sharon T Cameron, Anna Glasier, Lisa McDaid, Andrew Radley, Paula Baraitser, Judith Stephenson, Richard Gilson, Claire Battison, Kathleen Cowle. Mark Forrest, Beatriz Goulao, Anne Johnstone, Alessandra Morelli, Susan Patterson, Alison McDonald, Thenmalar Vadiveloo, John Norrie



Background Unless women start effective contraception after oral emergency contraception, they remain at risk of Lancet 2020; 396: 1585-91 unintended pregnancy. Most women in the UK obtain emergency contraception from community pharmacies. We See Comment page 1536 hypothesised that pharmacist provision of the progestogen-only pill as a bridging interim method of contraception Department of Obstetrics with emergency contraception plus an invitation to a sexual and reproductive health clinic, in which all methods of Gynaecology contraception are available, would result in increased subsequent use of effective contraception.

Methods We did a pragmatic cluster-randomised crossover trial in 29 UK pharmacies among women receiving Edinburgh Clinical Trials Un levonorgestrel emergency contraception. Women aged 16 years or older, not already using hormonal contraception, Usher Institute (C Battison not on medication that could interfere with the progestogen-only pill, and willing to give contact details for follow-up were invited to participate. In the intervention group, women received a 3-month supply of the progestogen-only pill (75 µg desogestrel) plus a rapid access card to a participating sexual and reproductive health clinic. In the control group, pharmacists advised women to attend their usual contraceptive provider. The order in which each pharmacy Lothian, Edinburgh, UK provided the intervention or control was randomly assigned using a computer software algorithm. The primary outcome was the use of effective contraception (hormonal or intrauterine) at 4 months. This study is registered, ISRCTN70616901 (complete).

Findings Between Dec 19, 2017, and June 26, 2019, 636 women were recruited to the intervention group (316 [49·6%], mean age 22·7 years [SD 5·7]) or the control group (320 [50·3%], 22·6 years [5·1]). Three women (one in the intervention group and two in the control group) were excluded after randomisation. 4-month follow-up data were available for 406 (64%) participants, 25 were lost to follow-up, and two participants no longer wanted to participate Directorate of Public Health in the study. The proportion of women using effective contraception was 20·1% greater (95% CI 5·2-35·0) in the NHSTayside, Dundee, UK intervention group (mean 58.4%, 48.6-68.2), than in the control group (mean 40.5%, 29.7-51.3 [adjusted for Cardiovascular Medicines. recruitment period, treatment group, and centre]; p=0.011). The difference remained significant after adjusting for age, Diabetes, Ninewells Hospi current sexual relationship, and history of effective contraception use, and was robust to the effect of missing data and Medical School, Dund (assuming missingness at random). No serious adverse events occurred.

Interpretation Provision of a supply of the progestogen-only pill with emergency contraception from a community pharmacist, along with an invitation to a sexual and reproductive health clinic, results in a clinically meaningful increase in subsequent use of effective contraception. Widely implemented, this practice could prevent unintended pregnancies after use of emergency contraception.

Funding National Institute for Health Research (Health Technology Assessment Programme project 15/113/01).

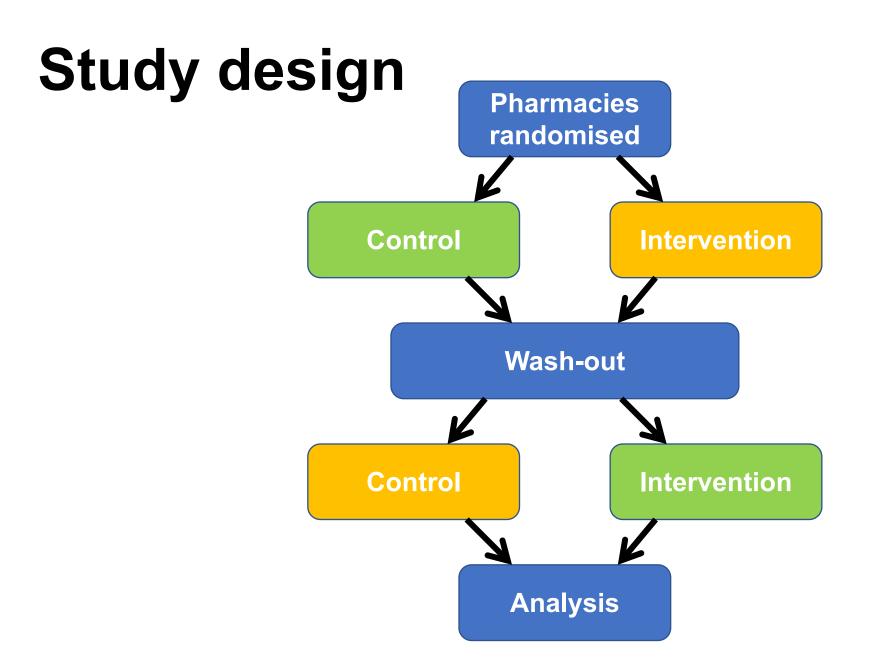
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after unprotected sex or contraceptive failure, but unless gency contraception (known as quick-starting).

Current UK and US guidelines recommend initiating Emergency contraception prevents unintended pregnancy regular hormonal contraception immediately after emer-

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Participants

- \geq 16 yrs
- Not using hormonal contraception
- No medications interact with POP

- FU 4 months telephone survey
- Contraceptive use
- Use of rapid access, SAE
- SRH databases for participant attendance



Results: effective contraception at 4 months

- 636 women, mean age 23 yrs
- FU 4 month N = 406 (64%)
- Effective contraception (hormonal or intrauterine)
- 58·4% (48·6–68·2) intervention vs. 40·5% (29·7–51·3) control
- 20·1% greater (95% CI 5·2–35·0) intervention vs. control group; p=0.011
- Remained significant even with adjustment for range factors*

(*age, current sexual relationship, history of effective contraception use, ethnicity, previous birth, missingness data)

Methods of contraception at 4 months

Intervention	Control	Effect size
N=198	N=208	
14%	23%	p=0.028
36%	7%	p<0.001
16%	30%	p<0.001
2%	2%	
1.5%	5%	p=0.037
1.5%	2%	
1.5%	2%	
(7%)	(11%)	
29%	30%	
LARC not signification	antly different	
	N=198 14% 36% 16% 2% 1.5% 1.5% (7%) 29%	N=198 N=208 14% 23% 36% 7% 16% 30% 2% 2% 1.5% 5% 1.5% 2% 1.5% 2% (7%) (11%)

(7 % intervention vs 11% control)

Other important outcomes

Repeat use of EC:

10 % intervention vs 18% control; p=0.018



Rapid access card (intervention): n=2 < 1 month

Same % attend SRH clinic:

17% intervention vs 14% control

No serious adverse events

Interpretation

- Bridging POP from pharmacy after EC
- Safe & effective
- Clinically meaningful increase effective contraception
- Reduced use further EC
- LNG-EC but should be applicable to UPA (& wait 5 days)
- Implemented should lead to fewer unintended pregnancies after EC
- Rolled out across Scotland & other parts UK



Articles

Acknowledgements

- BRIDGE-IT team & PPI
- ECTU & CHart
- Pharmacists
- Participants
- NIHR HTA 15/113/01

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Introduction

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Brisbane, QLD, Australia

Flizabeth Garrett Anderso Institute for Women's He Institute for Global Healt College London, London Boots UK, Edinburgh, UK **BMJ Sexual & Reproductive Health** promotes evidence-informed practice for contraception, abortion and all aspects of sexual and reproductive health. The journal publishes research papers, topical debates and commentaries to shape policy, improve patient-centred clinical care, and to set the stage for future areas of research.

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