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3. Discussion and recommendations

3.1 Advantages as a method of contraception, CHCs

- Are very effective with correct use;
- Are readily accessible to most women;
- Are easily reversible;
- Provide predictable withdrawal bleeds and the ability to manipulate cycles;
- Can be used to manage menstrual problems, e.g. heavy menstrual bleeding (HMB),^{2, 3} dysmenorrhea⁴ and symptoms of endometriosis;⁵
- Can improve acne;⁶
- Can reduce the risk of endometrial⁷ and ovarian cancer;⁸
- Can reduce the risk of bowel cancer;⁹
- Can be used to manage pre-menstrual syndrome (PMS), and its more severe form pre-menstrual dysphoric disorder (PMDD), in some women;¹⁰⁻¹⁴
- Can reduce the incidence of functional ovarian cysts¹⁵ and benign ovarian tumours¹⁶
- Can be useful in managing symptoms of polycystic ovarian syndrome;^{17, 18}
- Can assist with management of perimenopausal symptoms.¹⁹

3.2 Disadvantages as a method of contraception, CHCs

- Typical use failure rates are high;
- Some formulations are relatively expensive;
- As an oestrogen containing contraceptive method, there are rare but serious risks including venous thromboembolism (VTE) and arterial di

5. References

1. Trussell J. Contraceptive failure in the United States, *Contraception*. 2011;83(5):397-404.
2. Farquhar C, Brown J. Oral contraceptive pill for heavy menstrual bleeding, *Cochrane Database Syst Rev*. 2009(4):CD000154.
3. Jensen JT, Parke S, Mellinger U, Machlitt A, Fraser IS. Effective treatment of heavy menstrual bleeding with estradiol valerate and dienogest: a randomized controlled trial, *Obstet Gynecol*. 2011;117(4):777-87.
4. Larsson G, Milsom I, Lindstedt G, Rybo G. The influence of a low-dose combined oral contraceptive on menstrual blood loss and iron status, *Contraception*. 1992;46(4):327-34.
5. Harada T, Momoeda M, Taketani Y, Hoshiai H, Terakawa N. Low-dose oral contraceptive pill for dysmenorrhea associated with endometriosis: a placebo-controlled, double-blind, randomized trial, *Fertil Steril*. 2008;90(5):1583-8.
6. Arowojolu AO, Gallo MF, Lopez LM, Grimes DA, Garner SE. Combined oral contraceptive pills for treatment of acne, *Cochrane Database Syst Rev*. 2009(3):CD004425.
7. Mueck AO, Seeger H, Rabe T. Hormonal contraception and risk of endometrial cancer: a systematic review, *Endocr Relat Cancer*. 2010;17(4):R263-71.
8. Collaborative Group on Epidemiological Studies of Ovarian C, Beral V, Doll R, Hermon C, Peto R, Reeves G. Ovarian cancer and oral contraceptives: collaborative reanalysis of data from 45 epidemiological studies including 23,257 women with ovarian cancer and 87,303 controls, *Lancet*. 2008;371(9609):303-14.
9. Bosetti C, Bravi F, Negri E, La Vecchia C. Oral contraceptives and colorectal cancer risk: a systematic review and meta-analysis, *Hum Reprod Update*. 2009;15(5):489-98.
10. Joffe H, Cohen LS, Harlow BL. Impact of oral contraceptive pill use on premenstrual mood: predictors of improvement and deterioration, *Am J Obstet Gynecol*. 2003;189(6):1523-30.
11. Seidman DS, Yeshaya A, Ber A, Amodai I, Feinstein I, Finkel I, et al. A prospective follow-up of two 21/7 cycles followed by two extended regimen 84/7 cycles with contraceptive pills containing ethinyl estradiol and drospirenone, *Isr Med Assoc J*. 2010;12(7):400-5.
12. Lopez LM, Kaptein AA, Helmerhorst FM. Oral contraceptives containing drospirenone for premenstrual syndrome, *Cochrane Database Syst Rev*. 2012;2:CD006586.
13. Pearlstein TB, Bachmann GA, Zacur HA, Yonkers KA. Treatment of premenstrual dysphoric disorder with a new drospirenone-containing oral contraceptive formulation, *Contraception*. 2005;72(6):414-21.
14. Yonkers KA, Brown C, Pearlstein TB, Foegh M, Sampson-Landers C, Rapkin A. Efficacy of a new low-dose oral contraceptive with drospirenone in premenstrual dysphoric disorder, *Obstet Gynecol*. 2005;106(3):492-501.
15. Holt VL, Cushing-Haugen KL, Daling JR. Oral contraceptives, tubal sterilization, and functional ovarian cyst risk, *Obstet Gynecol*. 2003;102(2):252-8.
16. Westhoff C, Britton JA, Gammon MD, Wright T, Kelsey JL. Oral contraceptive and benign ovarian tumors, *Am J Epidemiol*. 2000;152(3):242-6.
17. Costello M, Shrestha B, Eden J, Sjoblom P, Johnson N. Insulin-sensitising drugs versus the combined oral contraceptive pill for hirsutism, acne and risk of diabetes, cardiovascular disease, and endometrial cancer in polycystic ovary syndrome, *Cochrane Database Syst Rev*. 2007(1):CD005552.
18. Consensus on women's health aspects of polycystic ovary syndrome (PCOS). , *Human reproduction*. 2012;27(1):14-24.
19. Casper RF DS, Reid RL. The Effect of 20 [mu]g Ethinyl Estradiol/1 mg Norethindrone Acetate (MinestrinTM), a Low-Dose Oral Contraceptive, on Vaginal Bleeding Patterns, Hot Flashes, and Quality of Life in Symptomatic Perimenopausal Women, *Menopause*. 1997;4(3):139-47.
20. Kuhl H. Comparative pharmacology of newer progestogens, *Drugs*. 1996;51(2):188-215.
21. Krattenmacher R. Drospirenone: pharmacology and pharmacokinetics of a unique progestogen, *Contraception*. 2000;62(1):29-38.
22. Hannaford PC, Iversen L, Macfarlane TV, Elliott AM, Angus V, Lee AJ. Mortality among contraceptive pill users: cohort evidence from Royal College of General Practitioners' Oral Contraception Study, *BMJ*. 2010;340:c927.

23. Imkampe AK, Bates T. Correlation of age at oral contraceptive pill start with age at breast cancer diagnosis, *Breast J.* 2012;18(1):35-40.
24. Kahlenborn C, Modugno F, Potter DM, Severs WB. Oral contraceptive use as a risk factor for premenopausal breast cancer: a meta-analysis, *Mayo Clin Proc.* 2006;81(10):1290-302.
25. Marchbanks PA, McDonald JA, Wilson HG, Folger SG, Mandel MG, Daling JR, et al. Oral contraceptives and the risk of breast cancer, *N Engl J Med.* 2002;346(26):2025-32.
26. Collaborative Group on Hormonal Factors in Breast C. Breast cancer and hormonal contraceptives: collaborative reanalysis of individual data on 53 297 women with breast cancer and 100 239 women without breast cancer from 54 -gpidemiologica staudie, *MLncert.*

Appendices

Appendix A Women's Health Committee Membership



Appendix B Overview of the development and review process for this statement

i. Steps in developing and updating this statement

This statement was originally developed in November 2012 and was most recently reviewed in March 2019. The Women's Health Committee carried out the following steps in reviewing this statement:

- Declarations of interest were sought from all members prior to reviewing this statement.
- Structured clinical questions were developed and agreed upon.
- An updated literature search to answer the clinical questions was undertaken.
- At the November 2018 face-to-face committee meeting, the existing consensus-based recommendations were reviewed and updated (where appropriate) based on the available body of evidence and clinical expertise. Recommendations were graded as set out below in Appendix B part iii)

ii. Declaration of interest process and management

Declaring interests is essential in order to prevent any potential conflict between the private interests of members, and their duties as part of the Women's Health Committee.

A declaration of interest form specific to guidelines and statements was developed by RANZCOG and approved by the RANZCOG Board in September 2012. The Women's Health Committee members

were required to declare their relevant interests in writing on this form prior to participating in the review of this statement.

Members were required to update their information as soon as they become aware of any changes to their interests and there was also a standing agenda item at each meeting where declarations of interest were called for and recorded as part of the meeting minutes.

There were no significant real or perceived conflicts of interest that required management during the process of updating this statement.

iii. Grading of recommendations

Each recommendation in this College statement is given an overall grade as per the table below, based on the National Health and Medical Research Council (NHMRC) Levels of Evidence and Grades of Recommendations for Developers of Guidelines. Where no robust evidence was available but there was sufficient consensus within the Women's Health Committee, consensus-based recommendations were developed or existing ones updated and are identifiable as such. Consensus-based recommendations were agreed to by the entire committee. Good Practice Notes are highlighted throughout and provide practical guidance to facilitate implementation. These were also developed through consensus of the entire committee.

Recommendation category		Description
Evidence-based	A	Body of evidence can be trusted to guide practice
	B	Body of evidence can be trusted to guide practice in most situations
	C	Body of evidence provides some support for recommendation(s) but care should be taken in its application

Appendix C Full Disclaimer

This information is intended to provide general advice to practitioners, and should not be relied on as a substitute for proper assessment with respect to the particular circumstances of each case and the needs of any patient.

This information has been prepared having regard to general circumstances. It is the responsibility of each practitioner to have regard to the particular circumstances of each case. Clinical management should be responsive to the needs of the individual patient and the particular circumstances of each case.

This information has been prepared having regard to the information available at the time of its preparation, and each practitioner should have regard to relevant information, research or material which may have been published or become available subsequently.

Whilst the College endeavours to ensure that information is accurate and current at the time of preparation, it takes no responsibility for matters arising from changed circumstances or information or material that may have become subsequently available.