

THE EUROPEAN SOCIETY OF CONTRACEPTION AND REPRODUCTIVE HEALTH



Next ESC activities



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Contraceptive use after cancer



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Conflicts of interest

- Adviser and lecturer for EXELTIS
- Lectures and Advisory boards Bayer
- Lectures and Advisory boards MSD
- Adviser NOVARTIS

Contraceptive use during and after cancer



Little is known:

- about unintended pregnancy,
- abortion,
- contraceptive use
- contraception counseling

in the context of cancer care.

Background



- Around **13%** of all cancers occur in people aged younger than 50 years.
- Some cancers and treatment impair fertility, but many women are physically capable of conceiving
- Women diagnosed with breast cancer might stop the pill but do not receive counselling about alternatives for contraception
- Young women **experience high levels of anxiety and distress** during cancer diagnosis and therapy and it can be devasting to become pregnant in this vulnerable period and cause major additional psychological distress, sadness and grieving.
- Pregnancy during cancer treatment is strongly discouraged, as radiotherapy and chemotherapy result in congenital malformation

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The good news

- Earlier diagnosis and better treatment have improved cancer survivorship
- 80% of women diagnosed with breast cancer under the age of 50 will survive at least 5 years
- 80% of childhood cancer survivors achieve 5year survival
- They differ with regard to age, cancer type, treatment type



Individual counselling is mandatory !

Myths and patient-related hurdles for use of contraception at cancer diagnosis and during follow-up



- Women feel overloaded with information in the moment of cancer diagnosis
- Some belief that after cancer treatment they will be infertile
- Others belief to be infertile as they do not have menstrual bleeding
- Some belief that hormones have a negative impact on their future health

Are women sexual active in the period of cancer diagnosis and treatment



| Patel 2015 | Various cancers N=107 | 37% sexual active during treatment 15% used no contraception |
|------------|--------------------------|-----------------------------------------------------------------|
| Quinn 2014 | Various cancers N=275 | 21% used no contraception, also they had resumed menses |

Does contraceptive counselling make a difference ?



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Contraceptive counselling

Lancet 2015: S. Han: International Network on Cancer, Infertility and Pregnancy

- Contraception counselling is just as important as infertility counselling
- In this database 3% of women became pregnant during cancer staging or treatment (34y median age)
- At pregnancy diagnosis contraception had been absent in 45% or unknow 34%
- Pregnancy outcome:
 - Termination 31%
 - Spontaneous abortion 7%
 - EUG 3%
 - Livebirth 59%

Unintended pregnancy during the first year of breast cancer diagnosis

- Unselected consecutive cohort study
- Women < 40 years at BC diagnosis n=100
- Frequency of unintended pregnancy during the first year of diagnosis

Results

- 58% were using an uneffective contraceptive method
- The rate of unintended pregnancy in this subgroup was 3.5% (n=2)

Contraceptive counselling prior to adjuvant cancer therapy - Interview of oncologists

Of 101 oncologists only 20% confirmed that they

- informed that reliable contraception is necessary before starting adjuvant therapy
- ask patients during therapy if they use contraception
- routinely refer their patients to specialist counselling by a gynaecologist

Abortion rates in childhood cancer survivors



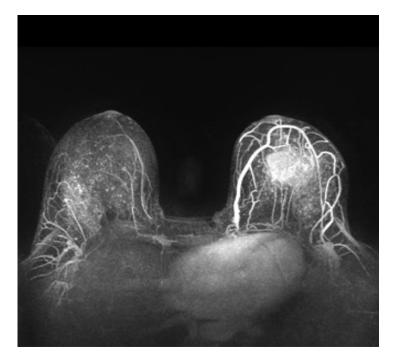
- 17% of pregnancies in 1915 survivors of childhood cancer ended in abortion
- Cancer survivors had abortions at higher rates than siblings
- In a Danish study abortion rates were 19% and did not differ from siblings or hte general population (20%).

There are lots of different counselling situations for young cancer patients and different aspects to consider

nonhormonally mediated cancers -leukemia



hormonally mediated cancers – Breast cancer



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Malignancies requiring myelosuppressive therapy

- The VTE risk usually increases in all women with a malignany
- CHC are absolutely contraindicated
- With cytopenia and prolonged myelosuppression reliable control of menstruation is necessary
- In nonhormonally mediated cancers suppression of bleeding with progestins is possible
- Consider, oral preparations may be difficult to tolerate in chemotherpeutic regimens
- Use GnRh sc analoga to suppress HPO axis during the course of anticipated cytopenia
- In breast cancer patients any hormonal treatment is contraindicated

Posttreatment contraceptive counselling

• Survey 2010, 174 questions , California, n= 2532 (1941 completed) , age 18-40 years Cancer was diagnosed 1993-2007

| Women with unprotected intercourse during the last month, menstruation and no wish to conceive | 21.1% |
|------------------------------------------------------------------------------------------------|---------------|
| Breast cancer p. were at higher risk than other cancer p | 20% vs 10% |
| Received pretreatment counselling | 66.7% |
| Counselling was not associated with decreased risk | P=93 |
| Use of a contraceptive method: Barrier:25% Hormonal : 24%, female/male ster. 38%, IUD 7% | 46% |

Sexually active cancer survivors are at threefold increased risk of unintended pregnancy in comparison with the US population

Contraception after cancer treatment Why do women not use contraception ?

- Survivors might presume they are infertile
- Health history related reasons
- Being stressed and overwhelmed



Recommendation 1

Pregnancy intention screening is necessary for **all women** in their reproductive years

One Key Question for all primary providers:

Would you like to become pregnant within future?

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Recommendation 2 Women with cancer and medical conditions

- Ask the key question !
- Yes: Counsel not only at diagnosis and before treatment but follow-up over the next years, consider the preservation of fertility before
- No: Contraception in these women can be understood as a valuable tool for timing pregnancies for periods of better health and optimise fetal outcome
- Ambivalent: go step by step

| Type of contraception | Preparation | Failure rate | Benefits | Contraindications | Considerations |
|-----------------------------------|--------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Barrier | Condom | 18-21% | STI protection Easily accessible | None | |
| | Diaphragm | 12% | Non-hormonal | None | Requires fitting by health care provider |
| Combined estrogen/progesterone | Pill (take daily) Vaginal ring (change monthly) Patch (change weekly) | 9% 9% 9% | Ovarian cancer risk reduction Can treat heavy menstrual bleeding, painful periods, endometriosis | Severe hypertension Stroke Severe cardiac disease Migraine with aura | Not recommended in active cancer given VTE risk |
| | Patch (change weekly) | 970 | | Smoking and age > 35 SLE (with APA) History of VTE Hepatocellular adenoma or hepatoma | |
| | | | | Decompensated liver cirrhosis Breast cancer or other estrogen-dependent malignancy | |
| Systemic progesterone only | Pill (take daily) Injection (administered every 3 months) | 9% 6% | Endometrial cancer risk reduction Can treat heavy menstrual bleeding, painful periods, endometriosis | Breast cancer | Can cause irregular bleeding Injection may delay fertility after cessation |
| Intrauterine device | Levonorgestrel releasing (effective up to 3 or 5 years) | 0.2-0.8% | Can treat heavy menstrual bleeding and induce amenorrhea in a portion of women Convenient use | Distorted uterine cavity GTD with suspicion of intrauterine disease Active purulent cervicitis or PID | Can reduce polyps and endometrial hyperplasia in women taking tamoxifen |
| | Copper (effective up to 10 years) | 0.2–0.8% | Non-hormonal Convenient use | Distorted uterine cavity GTD with suspicion of intrauterine disease Active purulent cervicitis or PID | Can increase menstrual pain and bleeding Can be used as emergency contraception |
| Implant | Subcutaneous arm implant (effective up to 3 years) | 0.05% | Simple insertion Convenient use | Breast cancer | Can result in unpredictable bleeding pattern |
| Permanent sterilization | Bilateral tubal ligation Vasectomy | 0.15–0.5% | Only permanent form of contraception | Contraindications to surgery | Irreversible, risk of patient regret Less surgical risk for vasectomy compared to tubal ligation |

 Table 2
 Summary of contraceptive options

STI, sexually transmitted infection; SLE, systemic lupus erythematosus; APA, antiphospholipid antibody; VTE, venous thromboembolism; GTD, gestational trophoblastic disease; PID, pelvic inflammatory disease

Recommendation 3 Women with cancer not desiring pregnancy

Recommend contraception, even in the absence of regular cycles

Consider the potential higher VTE risk in cancer patients associated with CHC

Consider potential non-contraceptive beneficts

Conclusion



- Data on contraceptive use in female cancer survival are limited
- Women continue to be sexual active also during cancer treatment
- The abortion rate in young female cancer survivors seems to be slightly higher than in the general population
- An unintended pregnancy in this situation causes a high level of distress and anxiety
- For some of these women highly specialised counselling is necessary