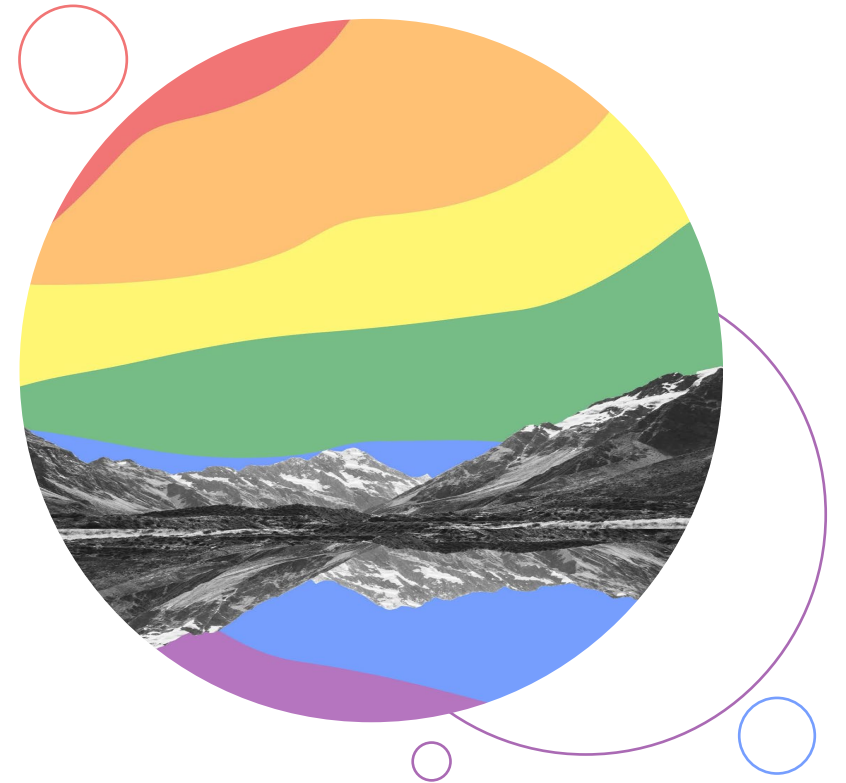


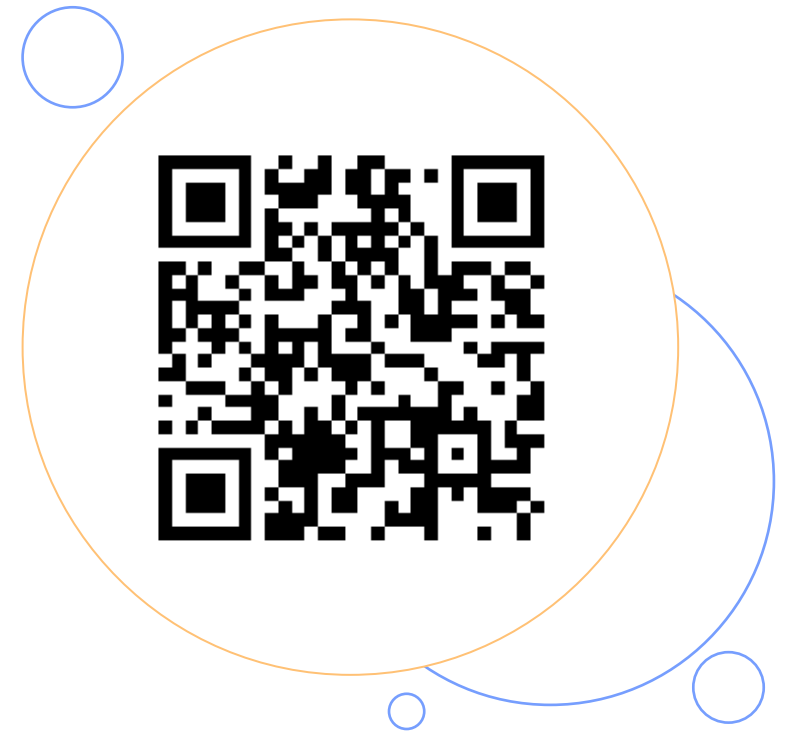
Improving Care for Transgender and Non-Binary People With and Beyond Cancer

Dr Dan Saunders
Dr Alison Berner
Stewart O'Callaghan



Technical Housekeeping

- This non-promotional Medical Educational Webinar has been organised and fully funded by AstraZeneca UK for UK healthcare professionals only
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- This webinar is being recorded for CPD accreditation purposes. The webinar will be available on the AstraZeneca Medical Education website (link will follow via email after the webinar)
- SLIDO will be used for the interactive elements in this webinar
- Please submit any questions in advance of the Q&A session using the QR code on this slide. These questions will be covered at the end of the webinar. Questions relating to AstraZeneca products will not be discussed
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Webinar Agenda

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Welcome and Introduction

2

Definition of Gender Affirming Care:
Types and Outlook on Drug-Drug Interactions

3

Transgender Patients in Breast Cancer

4

Transgender Patients in Uro-oncology

5

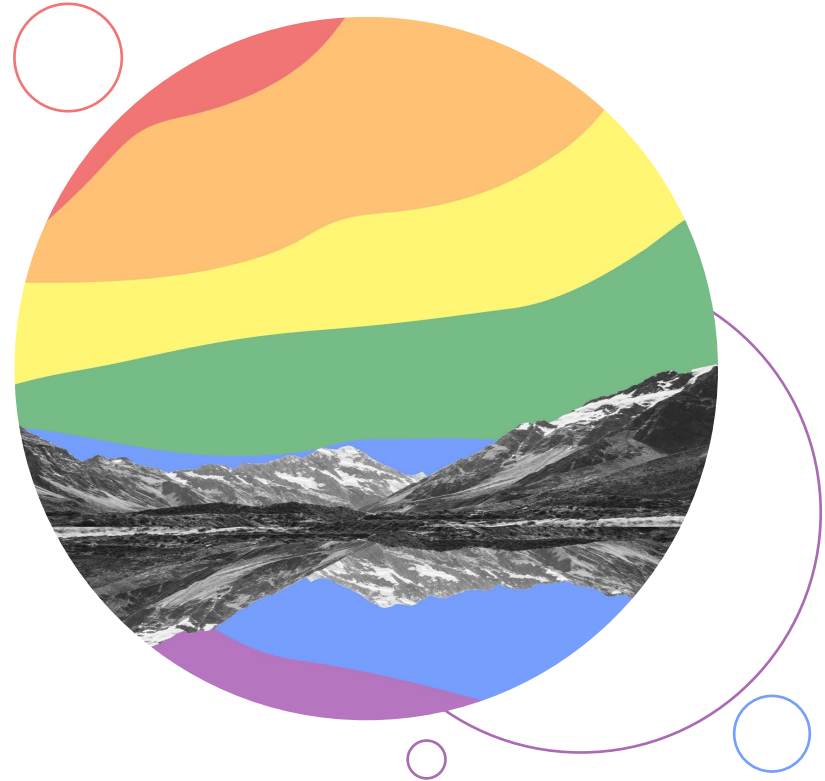
Transgender Patients in Gynaecological
Cancers

6

Live Q&A Session

Welcome and Introduction

Dr Dan Saunders



Introductions and Disclosures

Dr Dan Saunders (he/him)
Radiation Oncologist
The Christie, Manchester



Dr Alison Berner (she/her)
Academic Clinical Lecturer
Medical Oncology Barts Cancer Institute



Stewart O’Callaghan, MSc (they/them)
Founder & Chief Executive Officer
OUTpatients UK



Disclosures		
• Honoraria for non-promotional education received from AstraZeneca	• Honoraria for non-promotional education received from AstraZeneca, Pfizer, Lilly, Astellas, Eisai, Gilead and Servier	• Honoraria for non-promotional education received from Astellas, Gilead, AstraZeneca, Ipsen and GlaxoSmithKleine
• Honorary consultant clinical oncologist at The Christie, Manchester	• Support in attending meetings from Gilead	• Project funding recipient from Gilead, Pfizer
• Deputy CMO at Northern Care Alliance	• Advisory board participation with Pfizer	• Advisory board participation with Pfizer
• Chair of RCR EDI Committee (unremunerated/non-pecuniary)	• Recipient of Fellowship from the Gilead Fellowship & Medical Grants Programme	

Abbreviations: CMO: Chief Medical Officer; EDI: equity, diversity and inclusion; RCR: Royal College of Radiologists

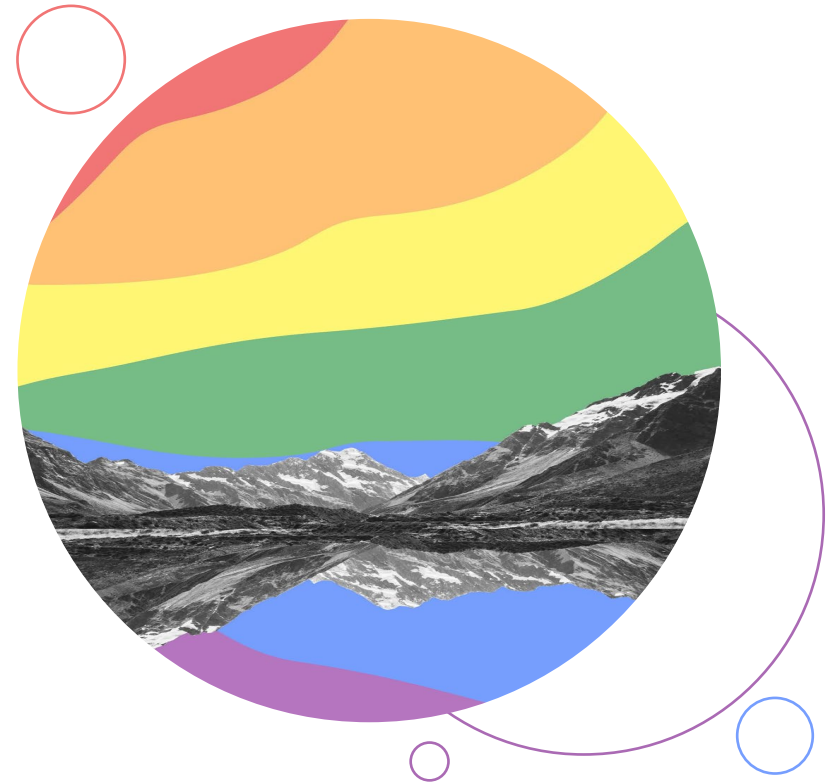
Summary: Webinar 1

- Disclosure of sexuality and gender incongruence are **underreported across all age groups** in the UK, although there is increased disclosure amongst younger populations (16-24 years). Assumptions about sexuality and gender should not be made based on age.
- Healthcare professionals (HCPs) must work to help feel LGBTIQ+ patients feel seen and supported, to **improve patient experience** and trust in healthcare, including cancer care.
- There is an unmet need for participation of the LGBTIQ+ community in **clinical trials**.
- HCPs need to carefully understand and consider the **psychosexual effects** of cancer treatment for LGBTIQ+ patients.

If you are registered for this Webinar Series, you will receive a link to the recording and summary of both webinars, hosted on the AstraZeneca Medical platform

Introductory Poll

Dr Dan Saunders



Introductory Poll: Question 1



I understand how receiving gender affirming hormone therapy (GAHT) may impact cancer risk and cancer care for transgender and non-binary patients.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*



This question will be revisited at the end of the webinar

Abbreviations: GAHT: Gender affirming hormone therapy

Introductory Poll: Question 2



I am aware of the drug-drug interactions between cancer therapies and GAHT.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*



This question will be revisited at the end of the webinar

Abbreviations: GAHT: Gender affirming hormone therapy

Introductory Poll: Question 3



I am comfortable talking to transgender patients about the need to stop/pause GAHT to avoid drug-drug interactions with cancer therapies.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*

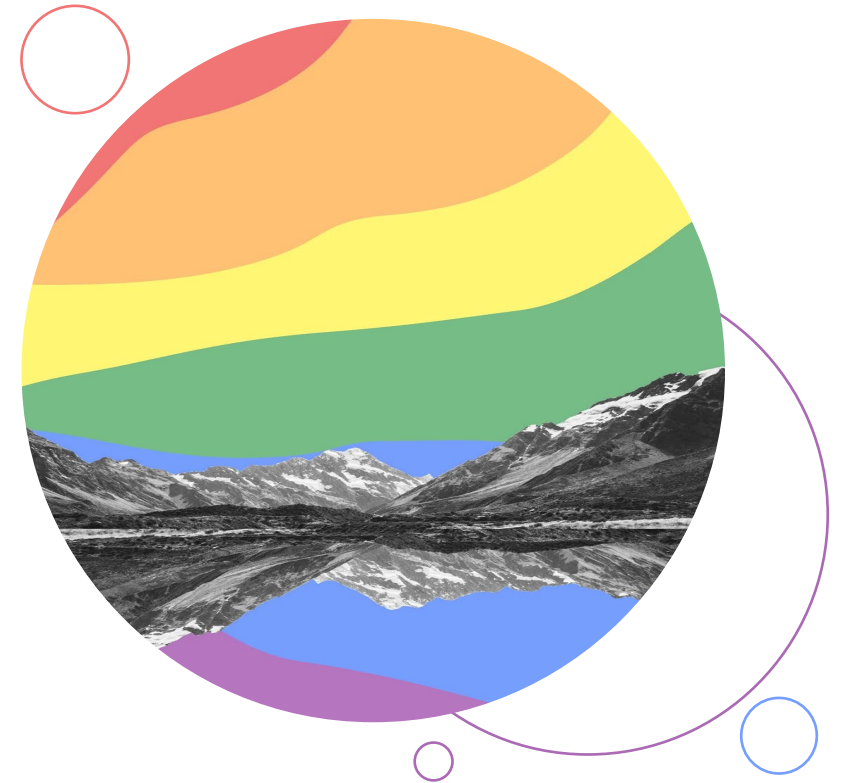


This question will be revisited at the end of the webinar

Abbreviations: GAHT: Gender affirming hormone therapy

Definition of Gender Affirming Care: Types and Outlook on Drug-Drug Interactions

Stewart O'Callaghan
Dr Alison Berner



Abbreviations: LGBTIQ+: Lesbian, Gay, Bisexual, Transgender, Intersex, Queer, Including Others

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Dr Alison Berner (she/her)



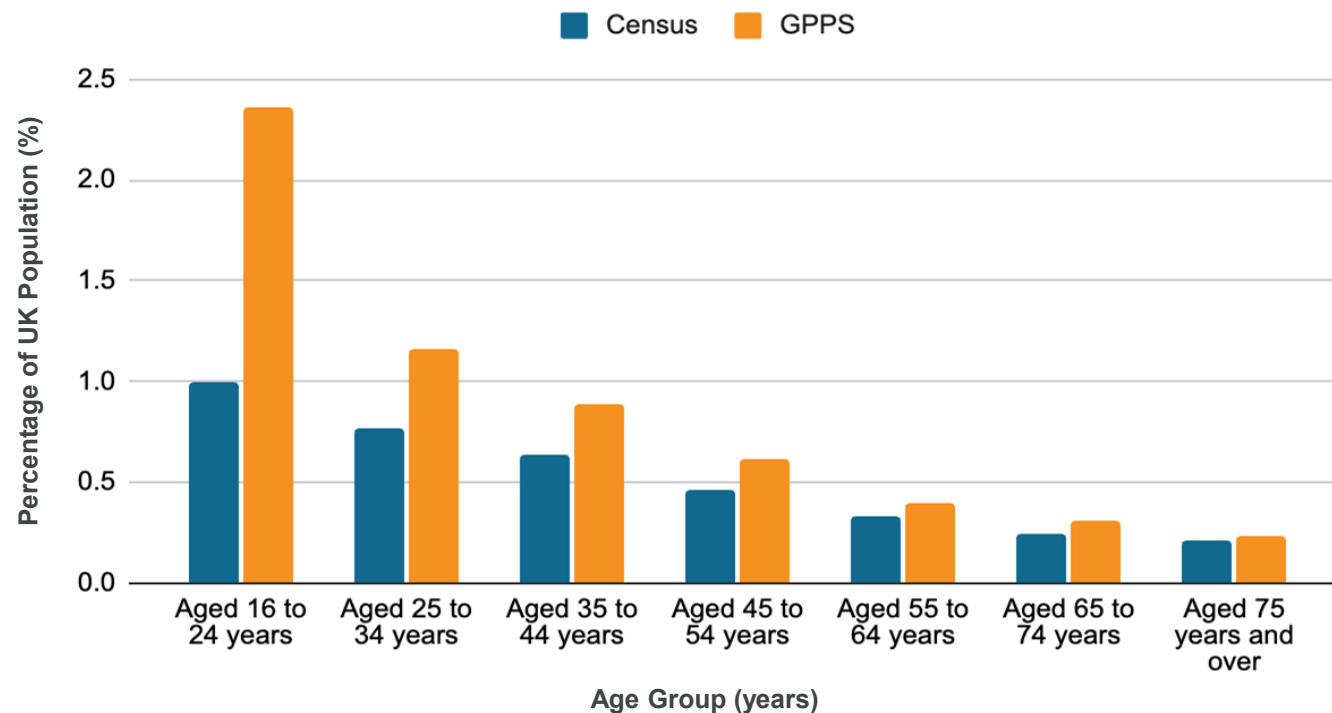
Academic Clinical Lecturer
Medical Oncology Barts Cancer Institute

Stewart O'Callaghan, MSc (they/them)



Founder & Chief Executive Officer
OUTpatients UK

Percentage of UK Population Reporting Gender Incongruence



An average of **0.5%** and **0.8%** of the UK population report gender incongruence according to census and GPPS data, respectively^{1,2}

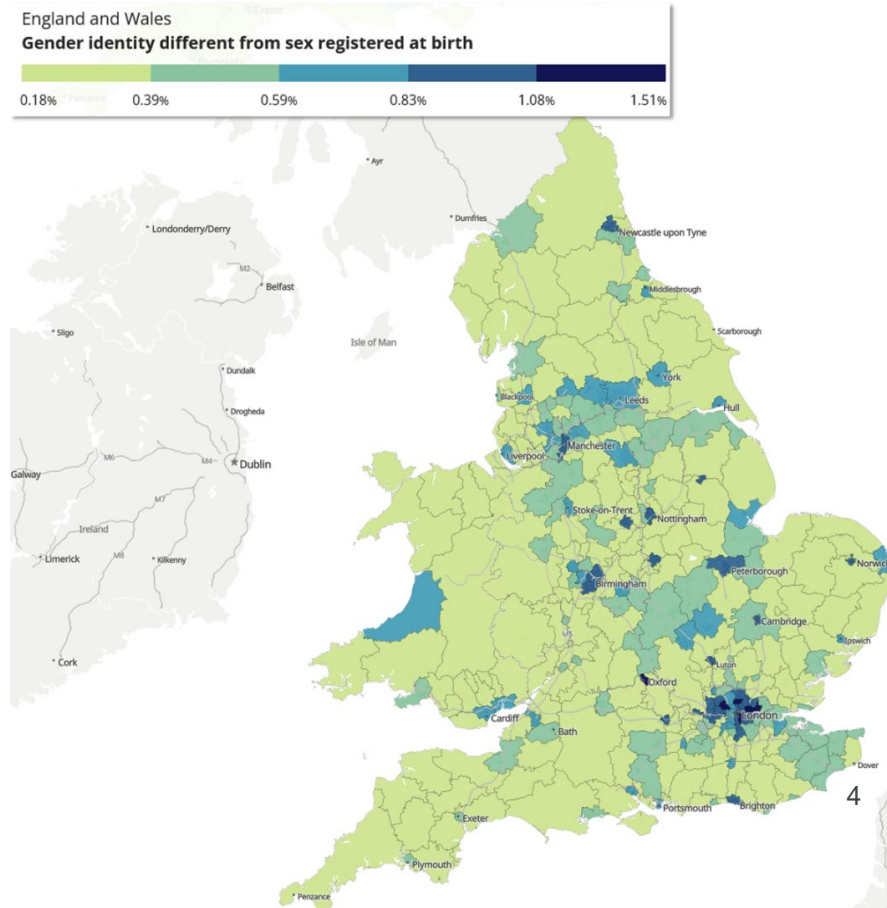
Abbreviations: GPPS: GP Patient Survey

References: 1. Adapted from NHS GP Patient Survey. 2023. Available at: <https://www.gp-patient.co.uk/surveysandreports2023> (Last accessed: September 2024); 2. Adapted from ONS. 2023. <https://www.ons.gov.uk/peoplepopulationandcommunity/culturalidentity/genderidentity/articles/genderidentityageandsexenglandandwalescensus2021/2023-01-25> (Last accessed: September 2024)

Date of Preparation: November 2024

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Who and Where?



ONS 2021¹ asked:
Is the gender you identify
with the same as your sex
registered at birth?

- Yes: 93.5%
- No: 0.5%
- No response: 6%

GPPS² asked:
Is your gender identity the
same as the sex you were
registered at birth?

- Yes: 98%
- No: 1%
- No response: 1%

An international systematic review³:

- 0.5-1% identify as transgender
- Up to 4.5% as gender diverse

Abbreviations: GPPS: GP Patient Survey; ONS: Office for National Statistics

References: 1. Adapted from: ONS 2021. Available at: <https://www.ons.gov.uk/peoplepopulationandcommunity/culturalidentity/genderidentity/articles/genderidentityageandsexenglandandwalescensus2021/2023-01-25> (Last accessed: October 2024); 2. Adapted from NHS GP Patient Survey. 2023. Available at: <https://www.gp-patient.co.uk/surveysandreports2022> (Last accessed: October 2024); 3. Zhang, Q et al. Int J Transgender Health. 2020;21(2):125-137; 4. Adapted from: ONS 2021. Available at: <https://www.ons.gov.uk/peoplepopulationandcommunity/culturalidentity/genderidentity/bulletins/genderidentityenglandandwales/census2021> (Last accessed: October 2024)

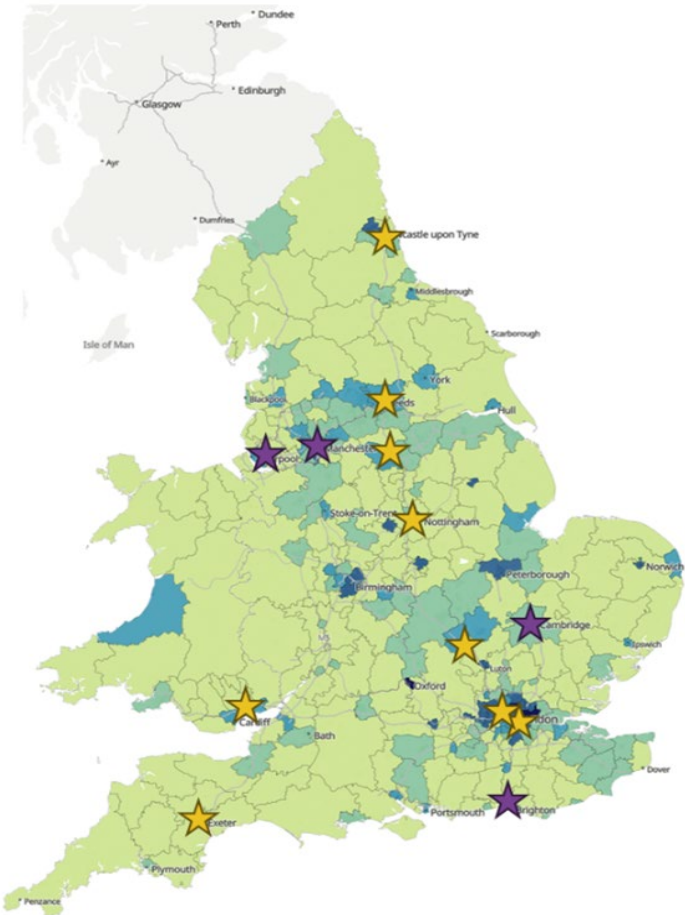
Gender Affirming Care Provision



1

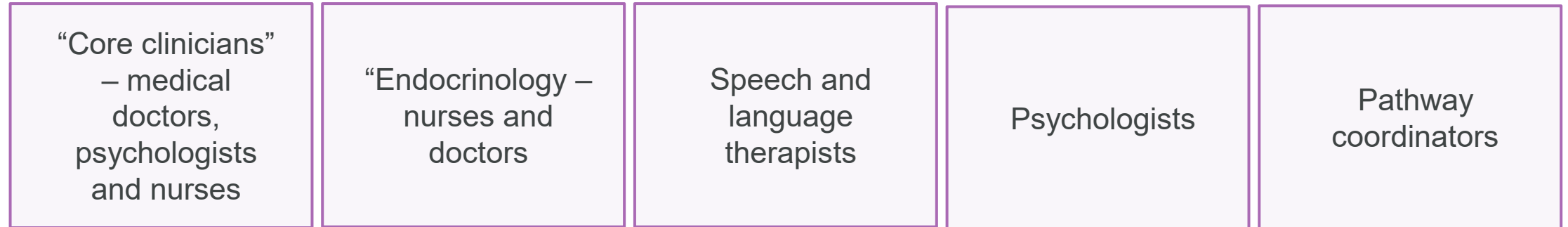
Service	Referral Information
Belfast Brackenburn	18+, GP referral only
Belfast KOI	Under 18s, GP referral only
Cardiff Welsh Gender Service	18+, GP referral only
Edinburgh Chalmers	17+, GP referral only
Exeter NHS	17+, allows self-referral
Glasgow Sandyford	All ages, allows self-referral
Glasgow Youth Sandyford Youth	All ages, allows self-referral
Grampian, Orkney and Shetland	18+, GP referral only
Inverness Highland GIS	17+, GP referral only
Leeds NHS	17+, allows self-referral
London GIC Tavistock	17+, allows self-referral

Service	Referral Information
London TransPlus	17+, invitation only
Newcastle NHS	17+, not accepting referrals
Northants Daventry	17+, allows self-referral
Nottingham	17+, GP referral only
Sheffield Peterbrook	17+, GP referral only
Pilot Services	Referral Information
Manchester Indigo	17+, invitation only
Merseyside CMAGIC	17+, not accepting referrals
NCTH EOE	17+, allows self-referral
Sussex NHS	17+, GP referral only
Sheffield Peterbrook	17+, GP referral only

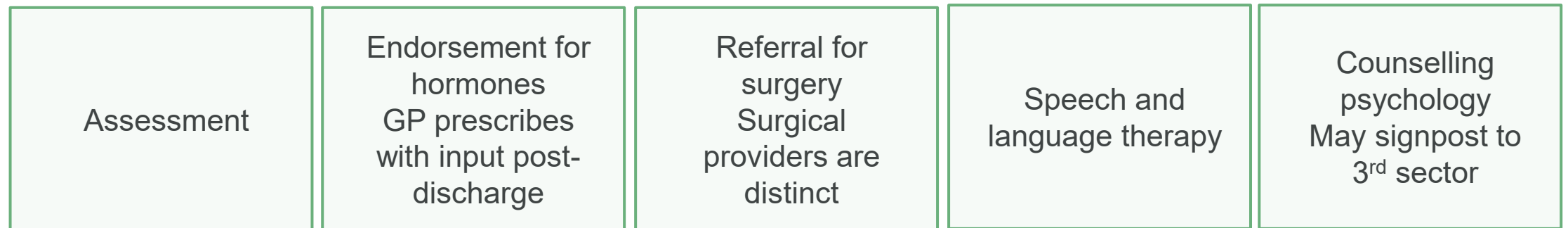


Adult Gender Affirming Care Provision

GENDER IDENTITY CLINIC STAFF



SERVICES





Salpingo-oophorectomy

Vaginectomy

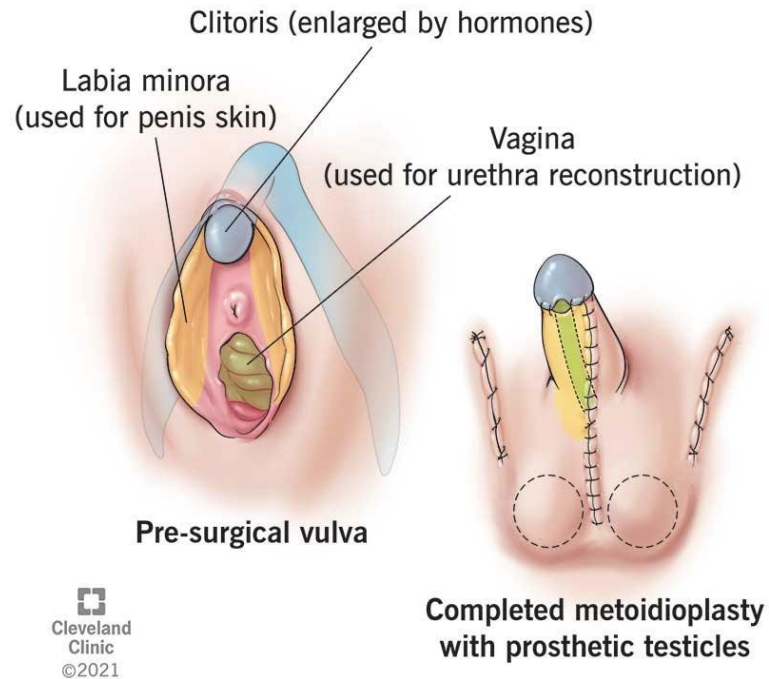
Vaginectomy

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Masculinising Interventions

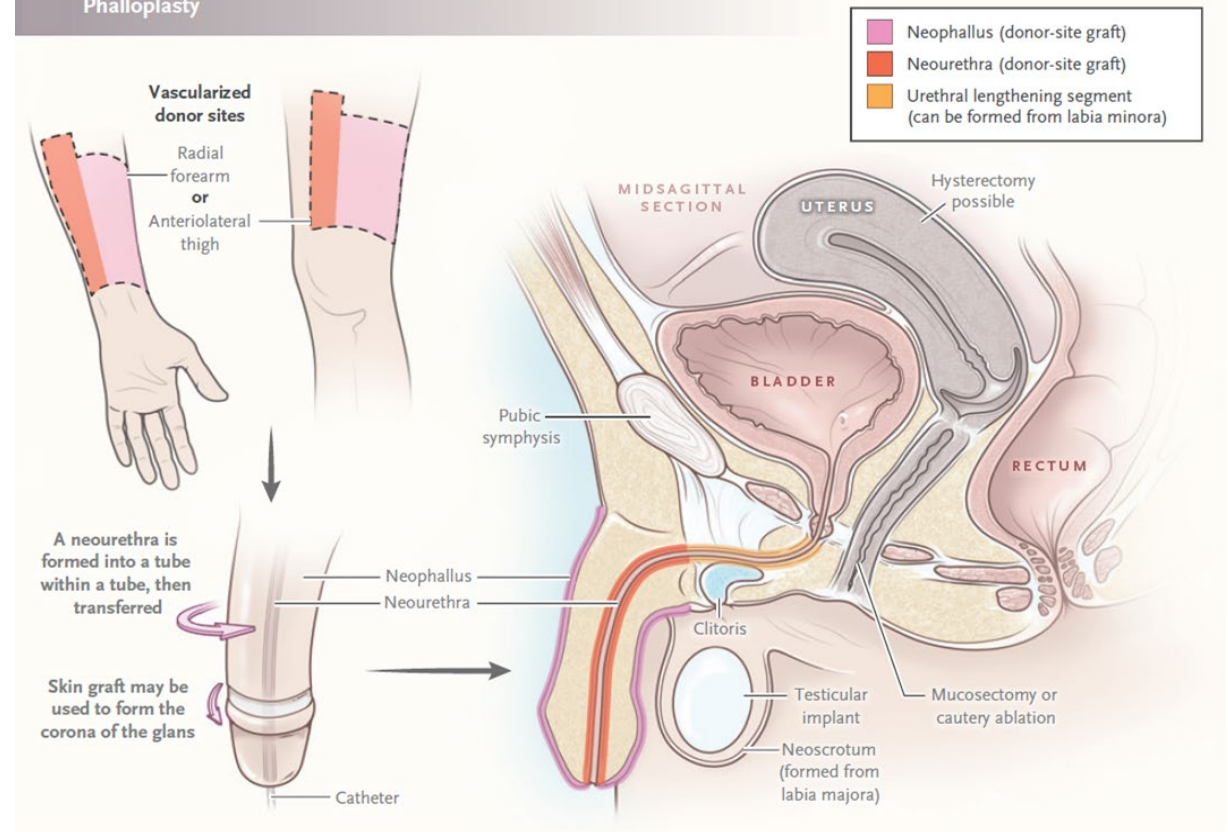


Metoidioplasty ¹



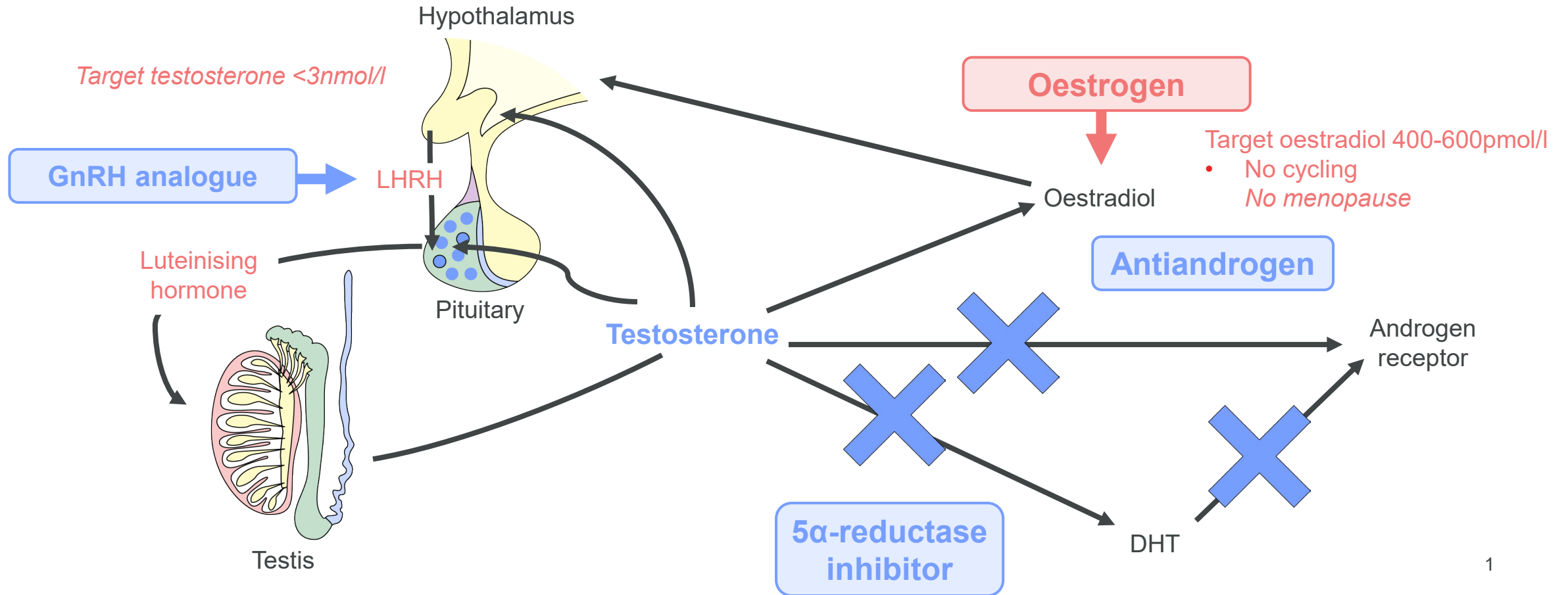
2

Phalloplasty



References: 1. Cleveland Clinic USA 2021. Available at: <https://my.clevelandclinic.org/health/procedures/21668-metoidioplasty> (Last accessed: October 2024) 2. Safer, J et al. N Engl J Med. 2019;381:2451-2460

Feminising Interventions



Feminising Interventions



Facial hair removal

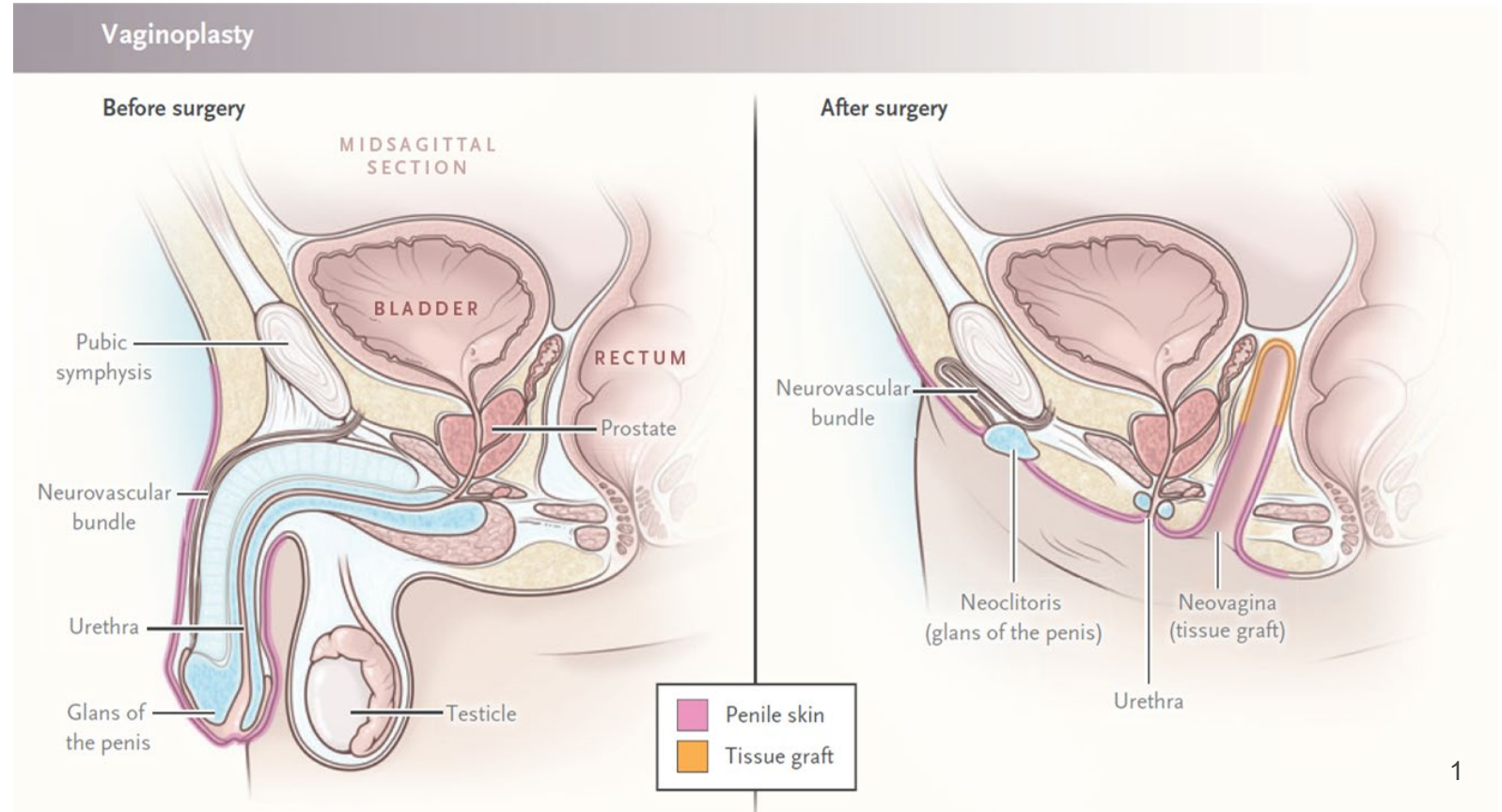
Vulvoplasty

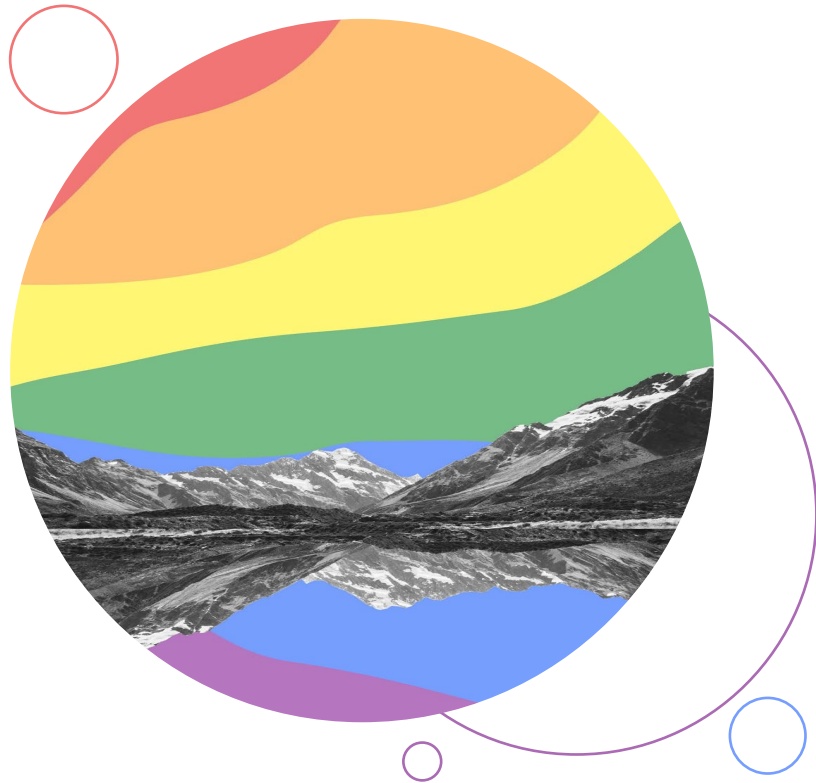
Orchidectomy

Breast augmentation

Tracheal shave

Facial feminisation





The Intersection of Cancer with Gender-Affirming Care

Potential Impacts of Cancer for Trans Patients

QUALITY OF CARE

- Anticipated discrimination
- Experienced discrimination
- Misgendering
- “Trans broken arm syndrome”
- Poor communication between healthcare teams (pass-the-parcel)
- Lack of accurate information
- Lack of inclusive information
- Lack of inclusive systems

CHANGES TO CARE

- Altered screening
- Stopping/pausing hormones
 - Risks of recurrence and progression
 - Drug interactions/effects
 - Blood clot risk
- Appropriate HRT
- Unclear which risk profile to use (e.g. male/female or menopause status)
- Radiotherapy
- Surgeries

ADDITIONAL NEEDS

- Psychology
- Psychosexual counselling
- Fertility
- End-of-life
- Chosen vs biological family / estrangement
- Financial needs / debt

Abbreviations: HRT: Hormone Replacement Therapy

Reference: Based on speaker clinical experience

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Job Bag Number: GB-61266

UK Cancer and Transition Service (UCATS)

Aim: To provide integrated, holistic and personalised care to gender diverse people affected by cancer

About UCATS

- **Virtual** multidisciplinary team meeting (MDM) and clinic with dial in options for patient's care teams
- Founded in **June 2022** following PPI and **co-development** with service users & OUTpatients charity
- 1-2 afternoons per month
- Core expertise: Medical Oncology, Gender Affirming Care, HIV Oncology, Sexual Health, Pharmacy, Palliative Care, Clinical Nurse Support
- Other experts are dialled in as needed e.g. palliative care, gender-affirming surgeons



UCATS
– UK Cancer and Transition Service –

Eligibility

- Gender diverse people **anywhere in the UK** with cancer now or in the past
- Regardless of where they source gender transitioning care

Abbreviations: MDM: Multidisciplinary Team Meeting; PPI: Patient and Public Involvement; UCATS: UK Cancer and Transition Service
References: UCATS. 2024. Available at: [UK Cancer and Transition Service - Transplus \(wearetransplus.co.uk\)](https://wearetransplus.co.uk) (Last accessed: September 2024)

UK Cancer and Transition Service (UCATS)

What we offer

- **In-clinic review** for patient willing to travel and who find technology challenging
- **Liaison** between all teams involved in the patient's care
- Ability to **fast-track** or coordinate gender affirming care when needed
- Letter of recommendations
- **Signposting** to other important services such as:
 - Psychotherapy
 - Psychosexual counselling
 - Peer support
- Option to participate in related **research** and PPI



UCATS
– UK Cancer and Transition Service –

Referrals

Clinician and self-referrals can be made via email
(chelwest.ucats@nhs.net)
with forms online

Abbreviations: PPI: Patient and Public Involvement

References: UCATS. 2024. Available at: [UK Cancer and Transition Service - Transplus \(wearetransplus.co.uk\)](https://www.transplus.co.uk) (Last accessed: September 2024)

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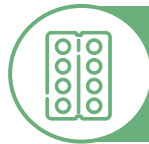
A Word About “Data”

Sex and gender are conflated in most medical records & cancer registries globally

Trans status may be inferred from coding, which **may not be accurate**. There may be incomplete linkage to:



Lifestyle factors



Gender affirming hormones



Gender affirming surgeries

There are unique methodological considerations to **use of health records or medical claims databases** in different countries:

- **Prevalence vs incidence** codes
- **Double counting** due to change of provider insurer
- Temporality of interventions
- Differences in **gender affirming care** and **ways records are changed**

References: Based on speaker clinical experience

Some Examples:



JNCI J Natl Cancer Inst (2021) 113(9): djab028

doi: 10.1093/jnci/djab028

First published online March 11, 2021

Article

Cancer Stage, Treatment, and Survival Among Transgender Patients in the United States

Sarah S. Jackson , PhD, MPH^{1,*} Xuesong Han , PhD² Ziling Mao , MPH^{2,3} Leticia Nogueira , PhD, MPH²
Gita Suneja, MD, MS^{4,5} Ahmedin Jemal , DVM, PhD² Meredith S. Shiels , PhD¹



Used the US National Cancer Database

- Coding for trans status
- Unable to discern the sex someone was assigned at birth

Greater proportion of transgender people diagnosed with:

- Advanced stage lung cancer
- Anus
- Liver
- Skin (non-melanoma)
- Lymphoma (Hodgkin & non-Hodgkin)

Lower proportion of transgender people diagnosed with:

- Prostate cancer

Abbreviations: GAHT: Gender affirming hormone therapy; US: United States

References: Jackson, S et al. *J Natl Cancer Inst*. 2021;113(9):1221-1227

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Some Examples:

JAMA Oncology | Brief Report

Prevalence and Factors Associated With Prostate Cancer Among Transgender Women

Celeste Manfredi, MD; Antonio Franco, MD; Francesco Ditunno, MD; Eugenio Bologna, MD; Leslie Claire Licari, MD; Costantino Leonardo, MD; Alessandro Antonelli, MD, PhD; Cosimo De Nunzio, MD, PhD; Edward E. Cherullo, MD, PhD; Marco De Sio, MD, PhD; Riccardo Autorino, MD, PhD



Used US claims data²

- Coding for GAHT (oestrogens), surgeries and prostate cancer **history**
- Did not compare to cis men in the same database

Issues:¹

- Risks of double counting
 - Prevalence and incidence codes
 - Change of employer means change of insurer
- Lack of biological plausibility
- Lack of validation in cis male cohort
- No temporal information on oestradiol use & orchiectomy

Reported:²

- **Lower** prostate cancer incidence with GAHT, but **higher** with orchiectomy
- Greater risk of biochemical recurrence and bone metastasis with GAHT

Abbreviations: GAHT: Gender affirming hormone therapy; US: United States

References: 1. Based on speaker clinical opinion; 2. Manfredi, C et al. JAMA Oncol. 2024.

Date of Preparation: November 2024

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Some Examples:

Journal of Medical Systems (2024) 48:96
<https://doi.org/10.1007/s10916-024-02111-w>

CORRESPONDENCE



Doing Justice: Ethical Considerations Identifying and Researching Transgender and Gender Diverse People in Insurance Claims Data

Ash B. Alpert^{1,2,3,4}  · Gray Babbs⁵ · Rebecca Sanaeikia⁶ · Jacqueline Ellison^{6,7} · Landon Hughes^{8,9} · Jonathan Herington¹⁰ · Robin Dembroff¹¹

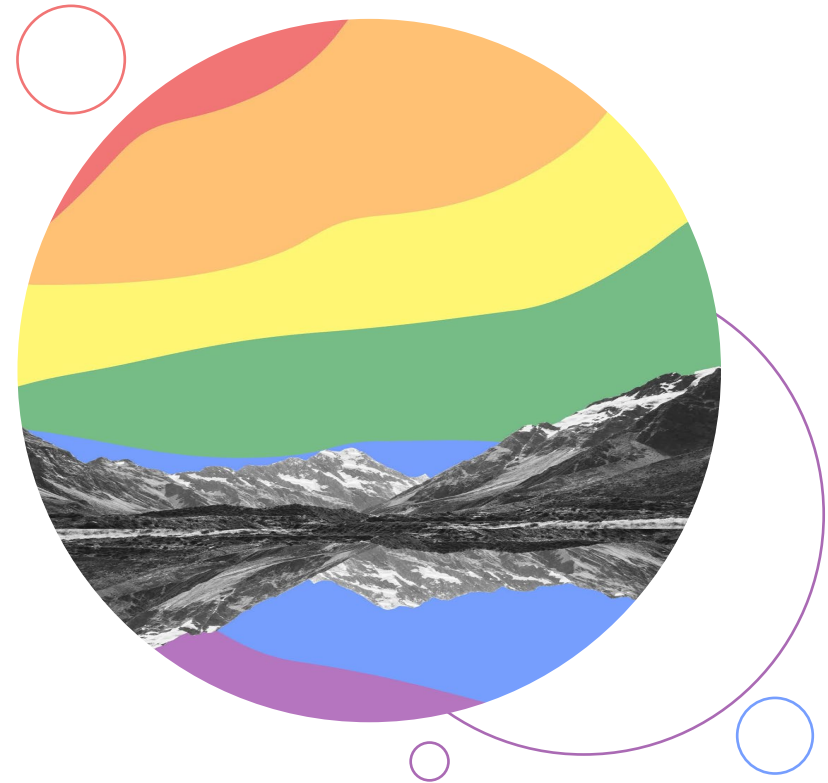
Received: 18 December 2023 / Accepted: 18 September 2024
© The Author(s) 2024

References: Alpert, A et al. Journal of Medical Systems. 2024;48(1):96

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Transgender Patients in Breast Cancer

Dr Alison Berner
Stewart O'Callaghan



For Trans Women and Those on Feminising GAHT



Experience 1/3 of the risk of breast cancer of cis women¹

- Possibly an over-estimate as UK use less progestogen use compared to the Dutch²
- Likely to be higher the earlier you start oestrogen²

Recommended to undergo breast screening from national screening age once they have had breast development³

- Those with BRCA mutations, other high variants or strong family history are eligible for enhanced screening and risk reducing measures^{4,5}

Experience challenges in care²

- Detection of lumps after breast implants
- Dysphoria around mastectomy
- Not wanting to stop oestrogen if the cancer is sensitive to oestrogen

Abbreviations: BRCA: Breast cancer gene

References: 1. de Blok, C et al. The BMJ. 2019;365:l1652; 2. Based on speaker clinical experience; 3. GOV UK 2023. Available at: <https://www.gov.uk/government/publications/nhs-population-screening-information-for-transgender-people> (Last accessed: October 2024); 4. Giblin, J et al. BJC Rep. 2023;1(1); 5. Coad, B et al. Curr Genet Med Rep. 2021;9:59-69



For Trans Men and Those Having Masculinising GAHT/Surgery

Experience 1/5 of the risk of breast cancer of cis women¹

This is likely due to combination of:²

- Top surgery
- Less oestrogen
- Action of testosterone

Only need routine breast screening from national screening age if they have not had top surgery³

- Those with BRCA mutations, other high variants or strong family history are eligible for enhanced screening and risk reducing measures^{4,5}

Experience challenges in care²

- Navigating 'pinked' spaces and gendered language
- Disruption to transition - Incidental tumours at male chest reconstruction
- Changes to the surgical pathway:
 - Not wanting 'female' reconstruction
 - Accessing contralateral mastectomy
- Testosterone use:
 - In oestrogen receptor positive disease
 - In androgen receptor positive disease

Abbreviations: BRCA: Breast cancer gene

Reference: 1. de Blok, C et al. The BMJ. 2019;365:l1652; 2. Based on speaker clinical experience; 3. GOV UK 2023. Available at: <https://www.gov.uk/government/publications/nhs-population-screening-information-for-transgender-people> (Last accessed: October 2024); 4. Giblin, J et al. BJC Rep. 2023;1(1) 6. Coad, B et al. Curr Genet Med Rep. 2021;9:59-69

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Surgical Case



Self-referral to UCATS:

- **Self-detected left breast** T3 N1 M0 G3 IDC, ER +ve, HER2 +ve
- **Neoadjuvant chemotherapy and anti-HER2**
- **Planned left mastectomy** followed by adjuvant anti-HER2, radiotherapy & endocrine therapy

Issues raised:

- **Desired bilateral mastectomy without reconstruction**
- Did **not** want future gender-affirming hormones
- **Unclear** if they would want hysterectomy in the future

UCATS outcome:

Able to carry out assessment to support bilateral mastectomy with no reconstruction

Alex, 52 years old, non-binary

Abbreviations: ER: Oestrogen receptor; HER2: Human epidermal growth factor receptor 2; IDC: Invasive ductal carcinoma

Reference: Based on speaker clinical experience

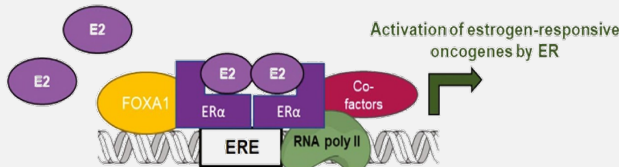
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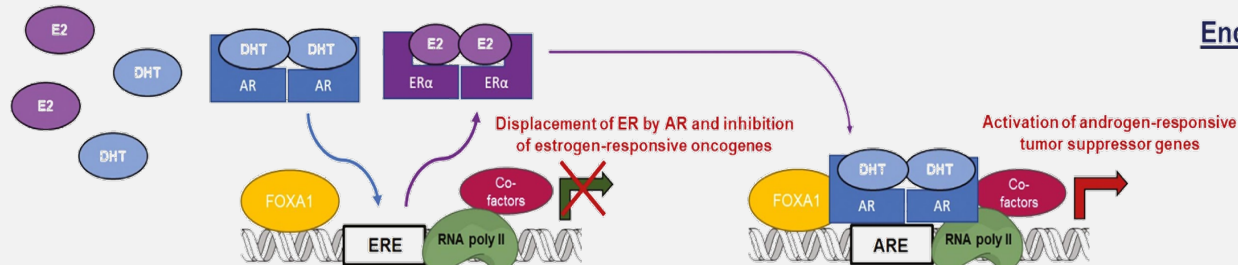
Androgen Receptor Positivity in Trans Men

FOR CIS WOMEN¹

ER-Positive Breast Cancer – Estrogens Stimulate Tumor Proliferation



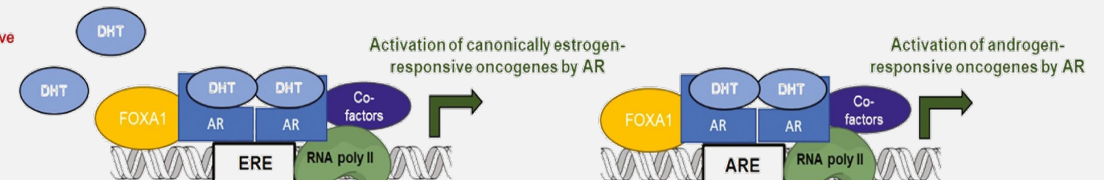
ER-Positive Breast Cancer – Androgens Inhibit Estrogen-Driven Proliferation



FOR TRANS MEN

- How will these tumours behave in response to environments with much higher testosterone?
- Clinically, we have seen this hold true for ER +ve²
- Can we derive a measure of transcriptional pathway activity, not just receptor expression?

Endocrine-Resistant / ER-Negative Breast Cancer – Androgens May Stimulate Tumor Proliferation



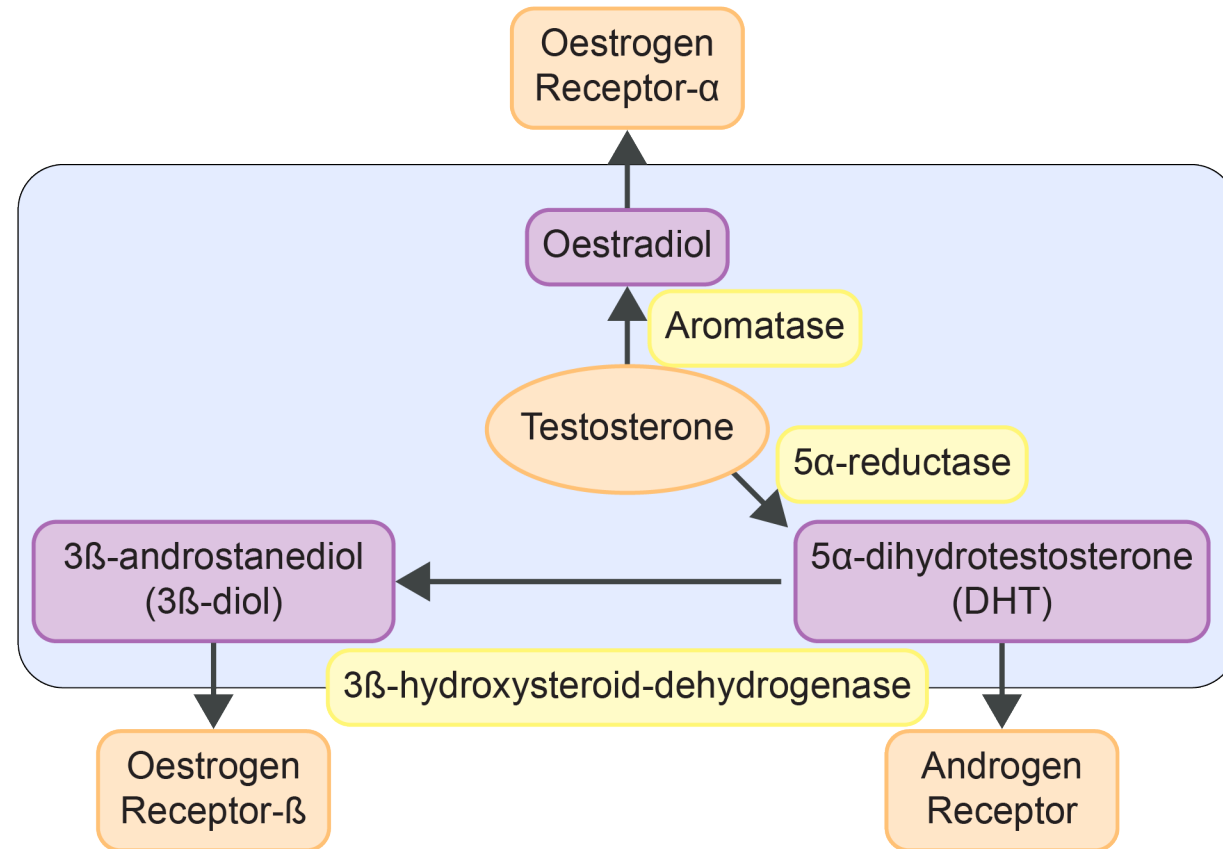
Abbreviations: ER: Estrogen receptor

References: 1. Dai, C and Ellisen L. Oncologist. 2023;28(5):383-391; 2. Based on speaker clinical experience

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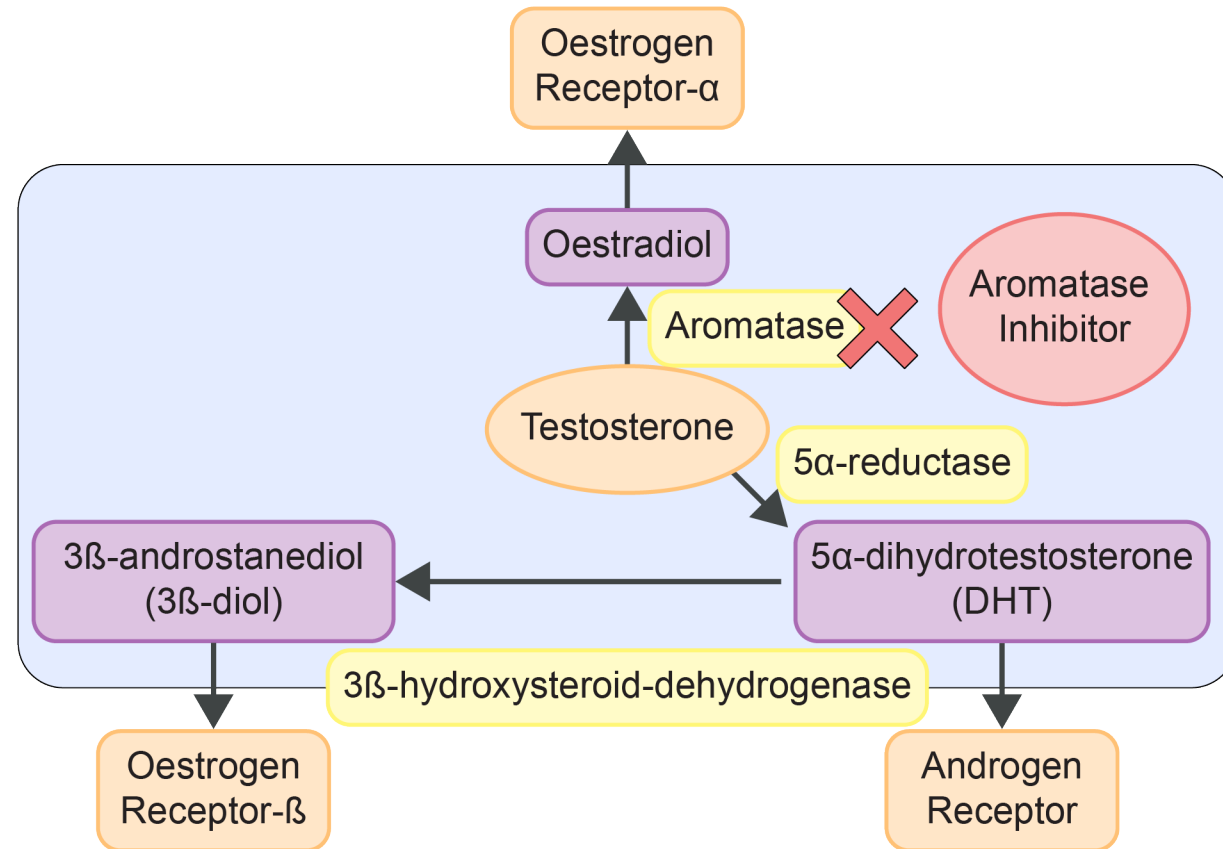
Oestrogen Receptor Positivity in Trans Men: Adjuvant Treatment



Abbreviations: ER: Estrogen receptor; KND: Kisspeptin, neurokinin B and dynorphin; OFS: Ovarian function suppression; SERM: Selective estrogen receptor modulator; SoC: Standard of care

References: 1. Adapted from: Patel, R et al. NPJ Breast Cancer. 2023;9(1):20

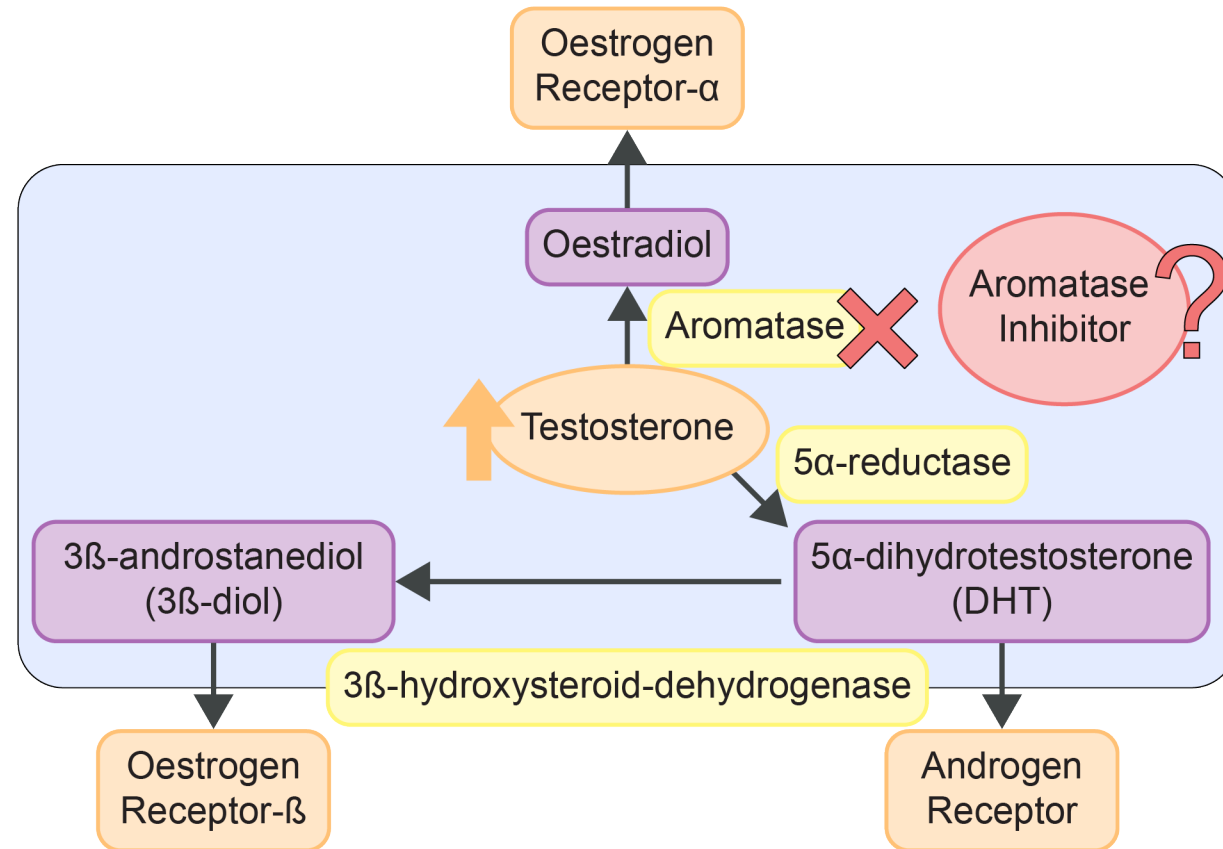
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Oestrogen Receptor Positivity in Trans Men: Adjuvant Treatment



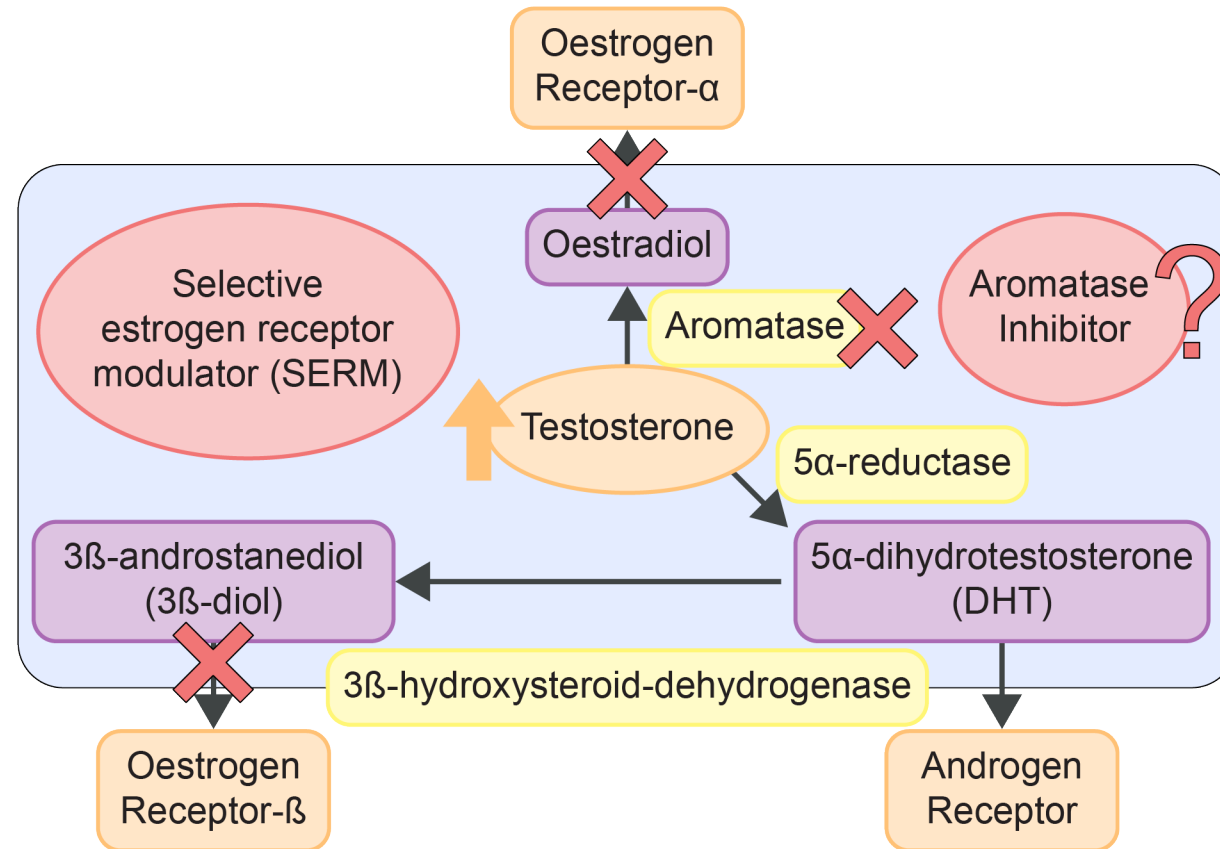
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References: 1. Adapted from: Patel, R et al. NPJ Breast Cancer. 2023;9(1):20

Oestrogen Receptor Positivity in Trans Men: Adjuvant Treatment

Selective estrogen receptor modulator (SERM)

- Blocks ER
- Used for cis men
- Increases risk of uterine cancer
- More poorly tolerated
- Direct action on KNDy neurons
 - Testosterone can mimic oestradiol effects if using aromatase inhibitor only



Aromatase inhibitor 1

- SoC in post-menopausal cis women
- No published data on oestradiol levels in response to aromatase inhibitor
- Can use and monitor oestradiol

Aromatase inhibitor 2

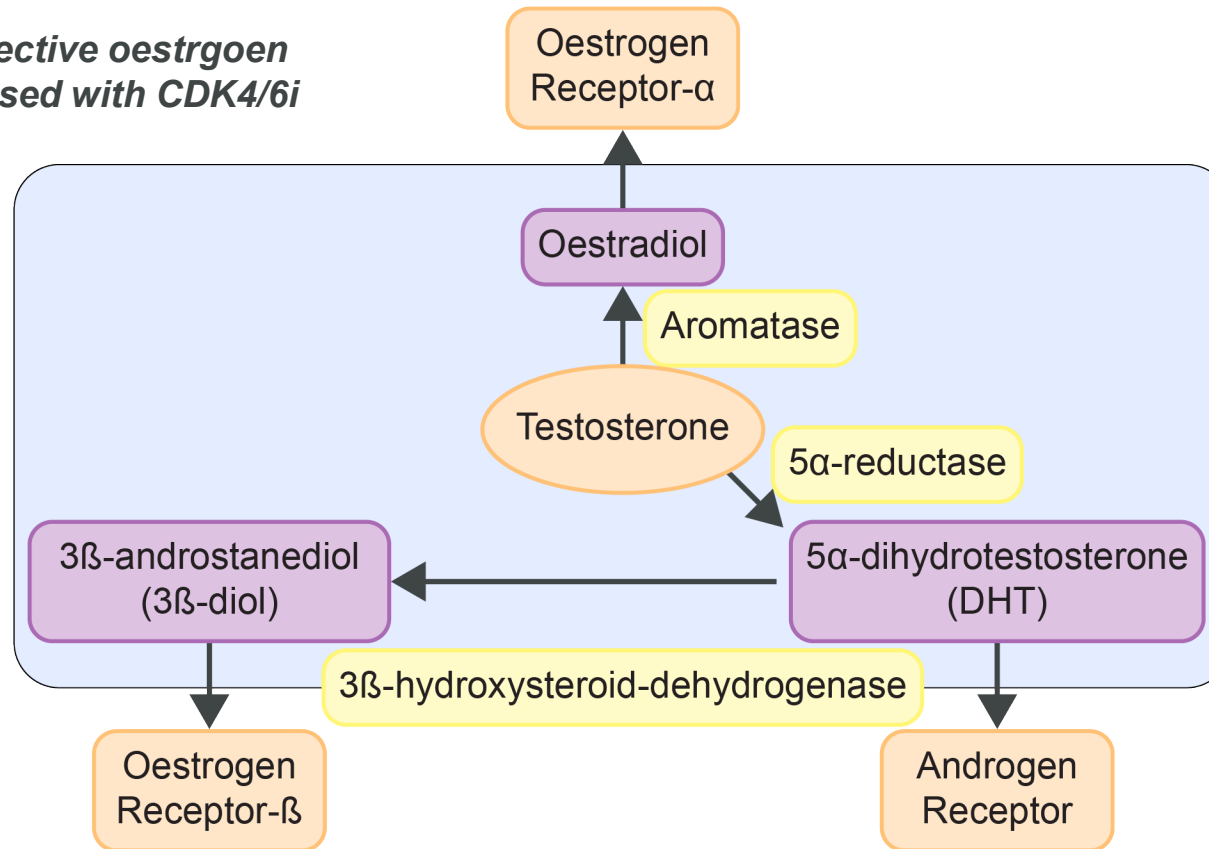
- SoC in pre-menopausal with OFS
- Interferes with oestradiol assay

Abbreviations: ER: Estrogen receptor; KND: Kisspeptin, neurokinin B and dynorphin; OFS: Ovarian function suppression; SERM: Selective estrogen receptor modulator; SoC: Standard of care

References: 1. Adapted from: Patel, R et al. NPJ Breast Cancer. 2023;9(1):20

Oestrogen Receptor Positivity in Trans Men: Metastatic Treatment

Only aromatase inhibitor or selective oestrogen receptor degrader (SERD) licensed with CDK4/6i



Abbreviations: ER: Estrogen receptor; CDK: Cyclin-dependent kinase; SERD: Selective estrogen receptor degrader

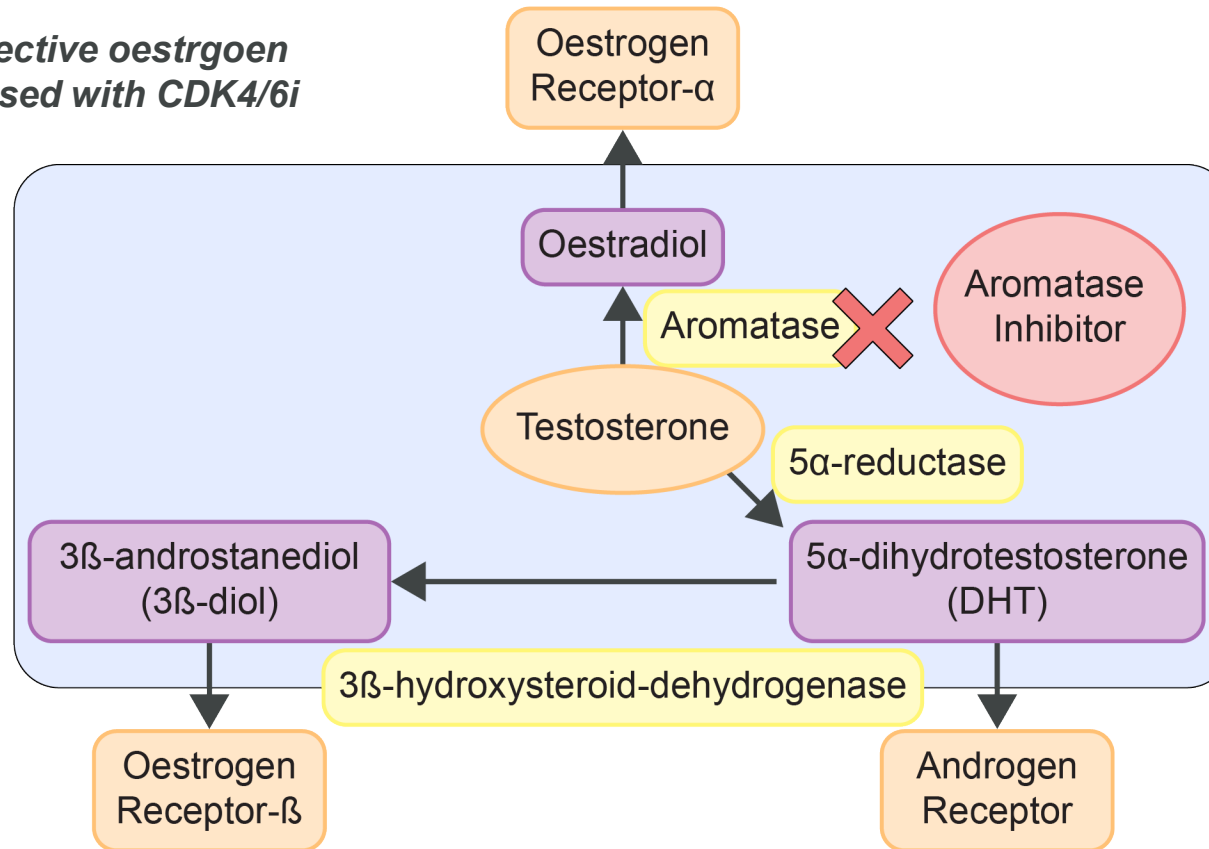
References: Adapted from: Patel, R et al. NPJ Breast Cancer. 2023;9(1):20

Date of Preparation: November 2024

Job Bag Number: GB-61266

Oestrogen Receptor Positivity in Trans Men: Metastatic Treatment

Only aromatase inhibitor or selective oestrogen receptor degrader (SERD) licensed with CDK4/6i



Abbreviations: ER: Estrogen receptor; CDK: Cyclin-dependent kinase; SERD: Selective estrogen receptor degrader

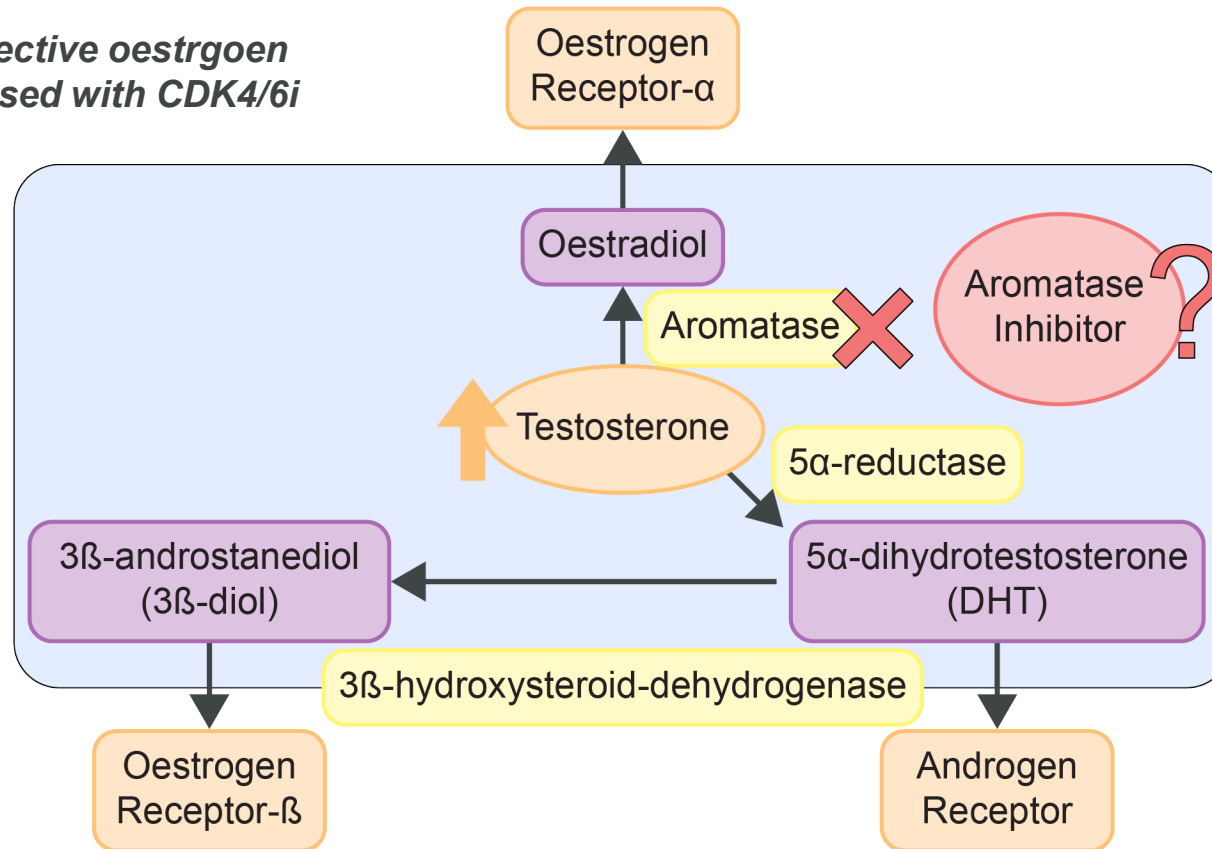
References: Adapted from: Patel, R et al. NPJ Breast Cancer. 2023;9(1):20

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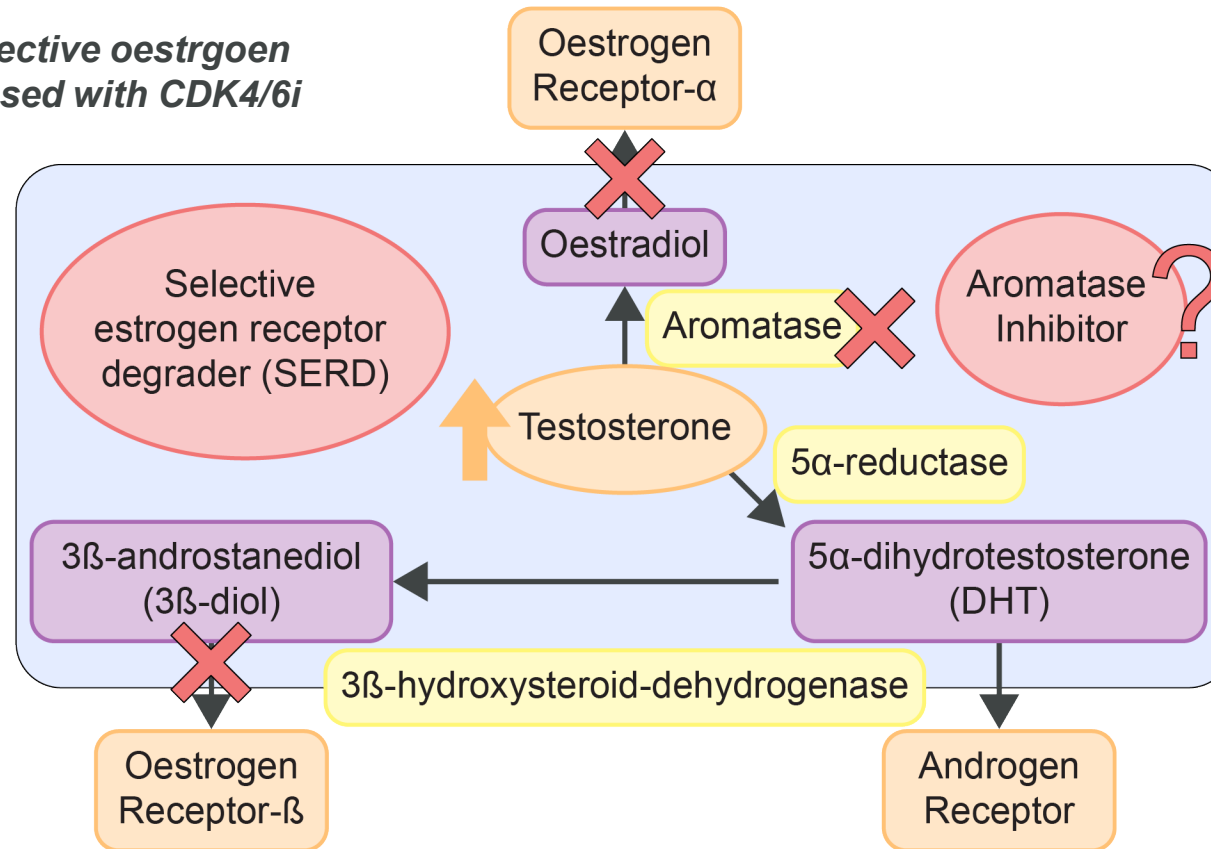
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Oestrogen Receptor Positivity in Trans Men: Metastatic Treatment

Only aromatase inhibitor or selective oestrogen receptor degrader (SERD) licensed with CDK4/6i

SERD

- Acts directly on ER
- Affects oestradiol assay so should not monitor level



Aromatase inhibitor

- Seems to deal with testosterone peaks on gel
- May be insufficient for testosterone peaks on higher doses of injectables

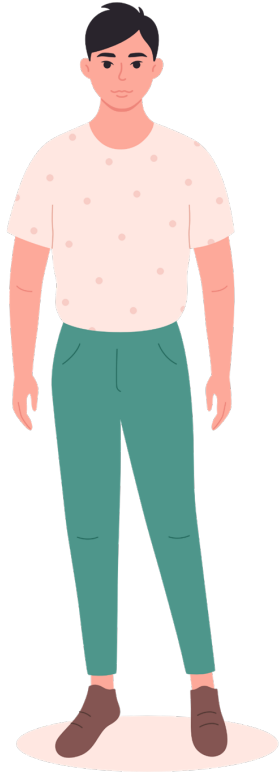
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Endocrine Case



Jake, 40 years old, non-binary transmasculine person

Self-referral to UCATS:

- Left T1 N1 G2 IDC, ER +ve HER2 -ve IDC
- Bilateral mastectomy for symmetrization benign
- For adjuvant chemotherapy followed by adjuvant endocrine treatment with ovarian function suppression
- Accessing injectable testosterone (given 3 weekly)

Issues raised:

- Selection of appropriate endocrine strategy given testosterone
- Appropriate hormone monitoring

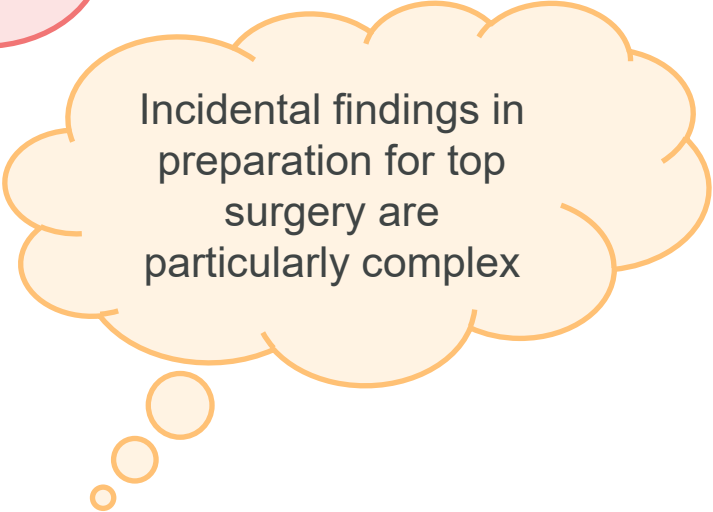
UCATS outcome:

Discussed options of switch to testosterone gel and initiation of letrozole with oestradiol monitoring vs use of SERM with injectable testosterone

Reflections: Charity Service Provision



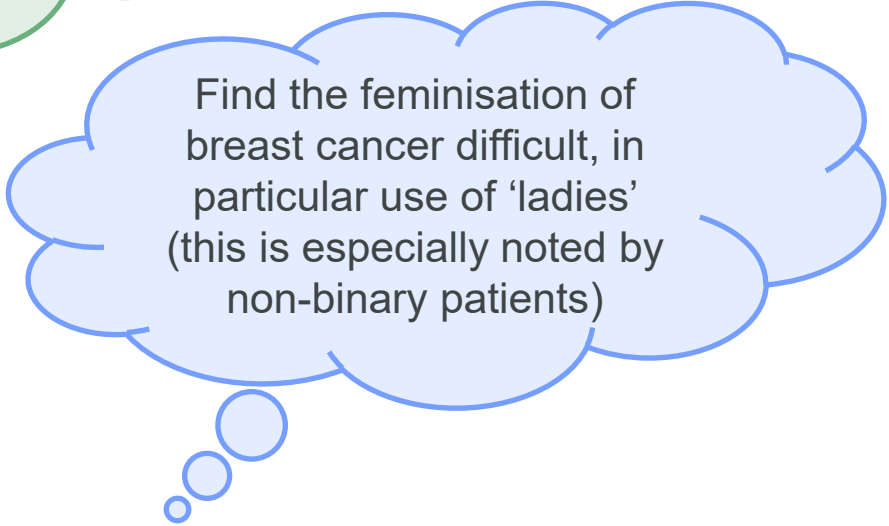
Transgender patients have heightened psychological burden regarding breast cancer diagnosis



Incidental findings in preparation for top surgery are particularly complex



Often feel their post-intervention goals are not discussed or reported



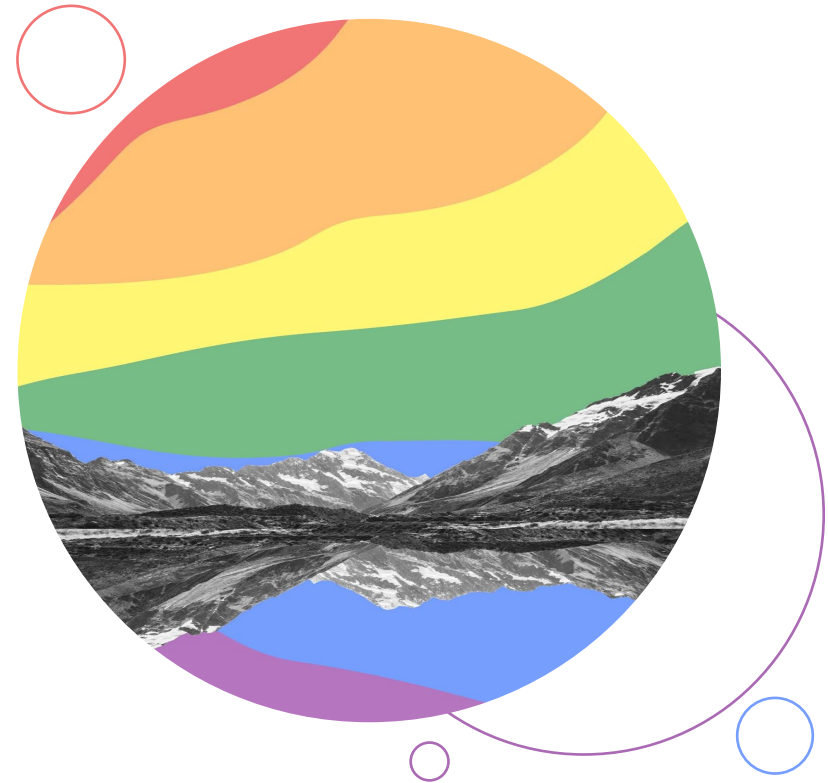
Find the feminisation of breast cancer difficult, in particular use of 'ladies' (this is especially noted by non-binary patients)

References: Based on speaker clinical opinion

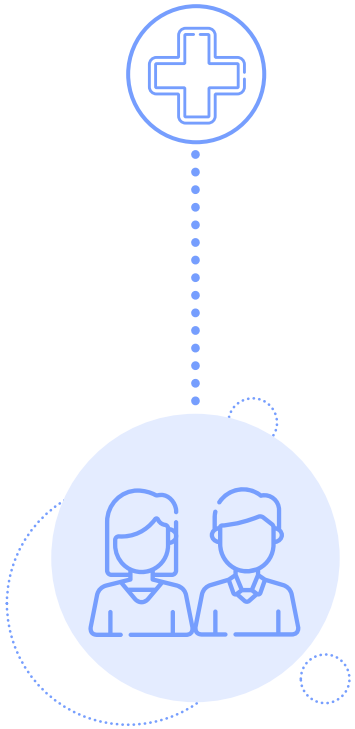
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Transgender Patients in Uro-Oncology

Dr Alison Berner
Stewart O'Callaghan



Prostate Cancer in Trans Women and Non-Binary People



- The prostate remains in situ after gender affirming genital surgery¹
- The risk of prostate cancer is **~5x lower for trans women than for cis men** when trans women are **either receiving GAHT or anti-androgen therapy** or have had **orchiectomy**.¹ This may be **even lower** for those on **GnRHa**!²
- There is **conflicting data** on whether these cancers are more aggressive and carry an increased risk of death^{3,4}
- There are probably two phenotypes:²
 - **Castrate sensitive** for those who have recently received GAHT
 - **Castrate resistant** for those on GAHT for many years
- There are **different roles of ER α and ER β in prostate cancer**, and insufficient evidence to suggest withhold oestrogen⁵

Abbreviations: ER: Estrogen receptor, GAHT: Gender affirming hormone therapy, GnRH: Gonadotropin-releasing hormone

References: 1. De Nie, I et al. J Clin Endocrinol Metab. 2020;105(9):e3293-3299; 2. Based on speaker clinical experience; 3. Jackson, S et al. J Natl Cancer Inst. 2021;113(9):1221-1227; 4. Meagher, M et al. Cancer. 2024;130(22):3862-3869; 5. Lafront, C et al. J Clin Invest. 2024;134(11):e170809

Challenges in the Prostate Cancer Pathway



Diagnosis

PSA is often measured by clinics prior to hormones (incidental finding)¹

Hormone therapy with anti-androgens and oestrogens lowers PSA levels, impacting monitoring!²

Dysphoria from the diagnosis of a 'male' cancer¹



Surgery

Increased risk of bowel perforation if prostatectomy performed after vaginoplasty³

Prostate removal can still impact sexual function regardless of whether the person has had genital surgery³

Surgery may impact future genital reconstruction - loss of landmarks for vaginoplasty³



Radiotherapy

External radiotherapy will likely mean future vaginoplasty is not possible⁴

There are risks of vaginal stenosis/necrosis after vaginoplasty (though dilator therapy will not be a new concept!)⁴

The prostate size may be smaller on hormones and preclude brachytherapy⁴

Abbreviations: PSA: Prostate-specific antigen

References: 1. Based on speaker clinical experience; 2. Nik-Ahd, F et al. JAMA. 2024;332(4):335-337; 3. Bertoncelli Tanaka, M et al. BJU Intl. 2022;129(1):113-122; 4. Smart, A et al. Int J Radiat Oncol Phys. 2023;117(2):301-311

Date of Preparation: November 2024

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Clinical Case



Vanessa, 64 years old,
trans woman

Self-referral to UCATS:

- Unfavourable intermediate risk prostate cancer, Gleason 7
- Robotic prostatectomy followed by radiotherapy for prostate bed recurrence
- Triptorelin commenced adjuvant

Issues raised:

- Wanting to commence oestrogen
- Desire for genital reconstruction surgery

UCATS outcome:

- Advice on safety of patches/gels instead of tablets due to VTE risk
- Agreed PSA thresholds to prompt further investigations
- Broke bad news: Vaginoplasty contraindicated after radiotherapy but vulvoplasty possible

Venous Thromboembolism (VTE) in Trans Women

Thromboembolism incidence is greater in trans women than in cisgender men

- Usually occurs within the first year¹
- Lower rates with transdermal preparations of oestrogen^{2,3,4}
- Those **over 40** are recommended to switch to a **transdermal preparation**
- Provoked VTE should prompt therapeutic anticoagulation⁴
 - Any stopping of oestrogen should be discussed (switch to patch/gel appropriate)⁴
 - In the case of a second VTE on anticoagulation, this should be discussed with GIC haematology⁴

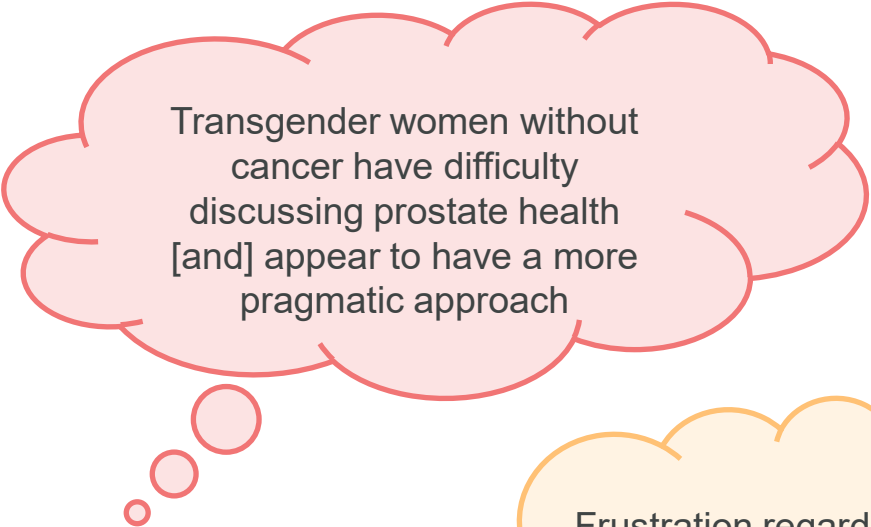
Abbreviations: GIC: Gender identity clinic; VTE: Venous thromboembolism

References: 1. Based on speaker clinical experience; 2. Arrington-Sanders, R et al. Endocr Pract. 2023;29(4):272-278; 3. Walker, R et al. JAMA Intern Med. 2020;180(2):190-197; 4. Berner, A et al. Best Practice & Research Clinical Endocrinology & Metabolism 2024;38(5):101909

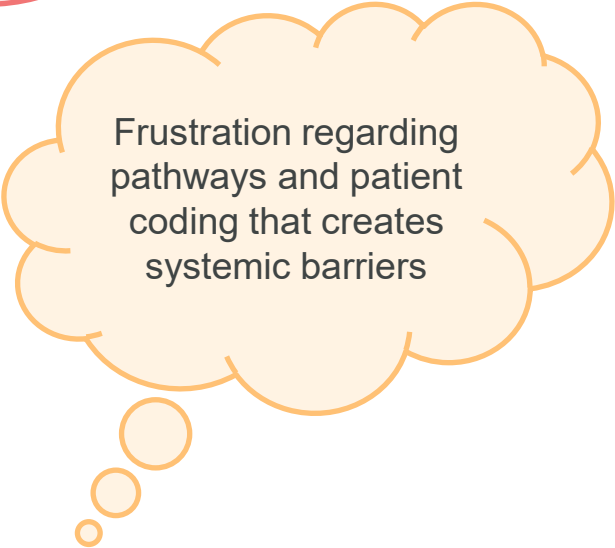
Date of Preparation: November 2024

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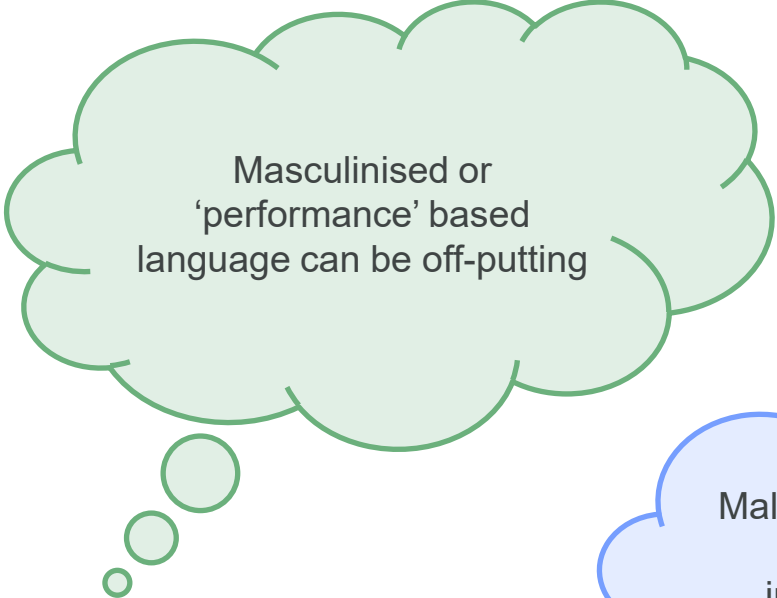
Reflections: Charity Service Provision



Transgender women without cancer have difficulty discussing prostate health [and] appear to have a more pragmatic approach



Frustration regarding pathways and patient coding that creates systemic barriers



Masculinised or 'performance' based language can be off-putting



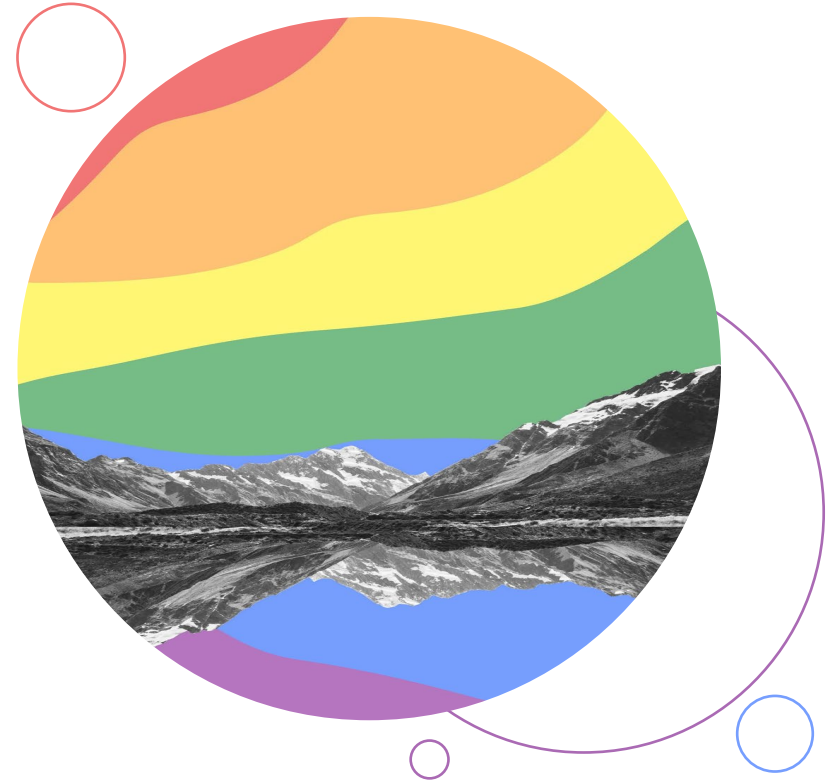
Male branded items or campaigns feel inaccessible and actively avoided

References: Based on speaker clinical opinion

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Transgender Patients in Gynaecological Cancers

Dr Alison Berner
Stewart O'Callaghan



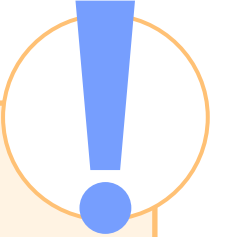
Incidence

No evidence of increased risk of gynaecological cancers in the literature, but:

- Many countries mandated hysterectomy for legal gender change until as recently as 2014
- Theoretical risks associated with some hormone therapies abound:
 - Androgen conversion to oestrogen driving endometrial hyperplasia and cancer¹
 - Androgen driving carcinogenesis in ovarian cancer¹
- Barriers exist to cervical screening for trans men & non-binary people²

Preventative care is key³

- HPV vaccination
- Encouragement of regular cervical screening
 - Need to self-present as no reminders
 - Inclusive specialist providers available
- Weight loss
- Hysterectomy is no longer encouraged for cancer prevention alone⁴
 - No evidence to recommend routine ultrasound monitoring outside of Lynch Syndrome



Abbreviations: HPV: Human papillomavirus

References: 1. Braun H, et al. Epidemiol Rev. 2017;39(1):93-107 2. Connolly, D et al. Prev Med. 2020;135:106071 3. Based on speaker clinical experience; 4. Coleman, E et al. Int J Transgend Health. 2022;23(Suppl 1):S1-S259

Date of Preparation: November 2024

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Clinical Challenges



Diagnosis

Gynaecological screenings or symptomatic presentation may be challenging due to dysphoria¹

Trans men on testosterone often experience pelvic pain routinely²



Treatment

Aromatisation of testosterone to oestrogen remains a consideration in oestrogen sensitive histology (Likely to be much higher than for cis women)¹

Individuals should be able to access the correct HRT for them²

Abbreviations: HRT: Hormone replacement therapy

References: 1. Berner, A et al. Best Practice & Research Clinical Endocrinology & Metabolism 2024;38(5):101909; 2. Based on speaker clinical experience

Clinical Case



Self-referral to UCATS:

- Stage 1C Clear Cell Carcinoma of the Ovary
- Total hysterectomy and bilateral salpingo-oophorectomy
- Adjuvant carboplatin & paclitaxel
- Had initial review only at the GIC

Issues raised:

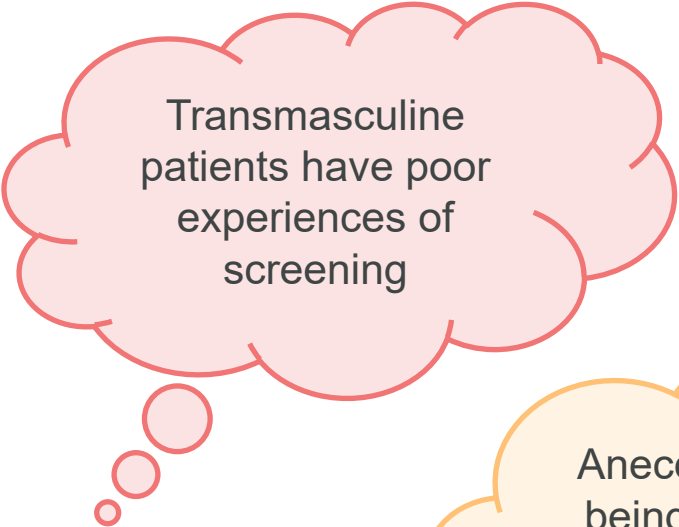
- Experiencing extreme menopausal symptoms but only offered oestrogen-based HRT which caused dysphoria
- Keen to commence testosterone therapy

UCATS outcome:

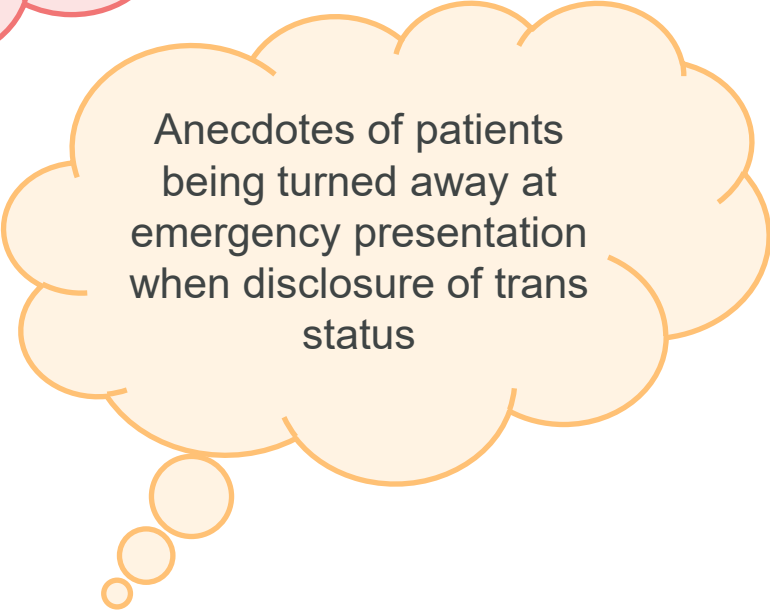
Able to expedite assessments and endocrine review to commence testosterone

Kai, 44 years old, trans man

Reflections: Charity service provision



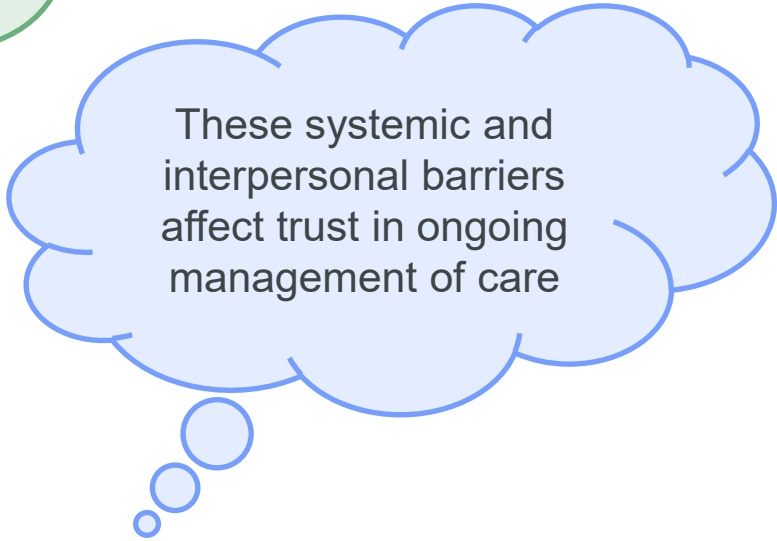
Transmasculine patients have poor experiences of screening



Anecdotes of patients being turned away at emergency presentation when disclosure of trans status



Very little information specifically addressing their needs or concerns



These systemic and interpersonal barriers affect trust in ongoing management of care

References: Based on speaker clinical opinion

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Resources

Best Practice & Research Clinical Endocrinology & Metabolism 38 (2024) 101909

Contents lists available at [ScienceDirect](#)

 **Best Practice & Research Clinical Endocrinology & Metabolism**

journal homepage: www.elsevier.com/locate/beem

6

The implications of hormone treatment for cancer risk, screening and treatment in transgender individuals

Alison May Berner (Academic Clinical Lecturer in Medical Oncology & Speciality Doctor in Adult Gender Identity Medicine)^{a,b,*}, Sarah Elizabeth Atkinson (Clinical Fellow in Medical Oncology)^c



 **OUTpatients**
The UK's LGBTIQ+ Cancer Charity

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TRANS:CRIBING

CLINICAL CONSIDERATIONS FOR SAFE AND INCLUSIVE PRESCRIBING FOR TRANSGENDER AND NON-BINARY PATIENTS

This resource was developed in partnership between **OUTpatients** and the **British Oncology Pharmacy Association (BOPA)**.





Page navigation 

[VIEW QUICK REFERENCE FLOWCHARTS FOR CONSULTATIONS](#)

► [Glossary of useful terms](#)

Introduction

In 2022, The Office for National Statistics UK Census reported that 0.5% of the UK population identified as transgender. NHS surveys like the GP Patient Survey report the percentage of trans people accessing GP services as 0.8%, averaged across all age groups. If younger people are viewed as a separate cohort, this rate increases to 2.2%.

The variations in these figures may be attributed to varying methodologies, greater trust in the NHS than the census, or an over-representation of trans people in healthcare. Either way, according to these figures around one in a hundred patients may be transgender so it is important to understand their needs and how to support their health and patient safety.

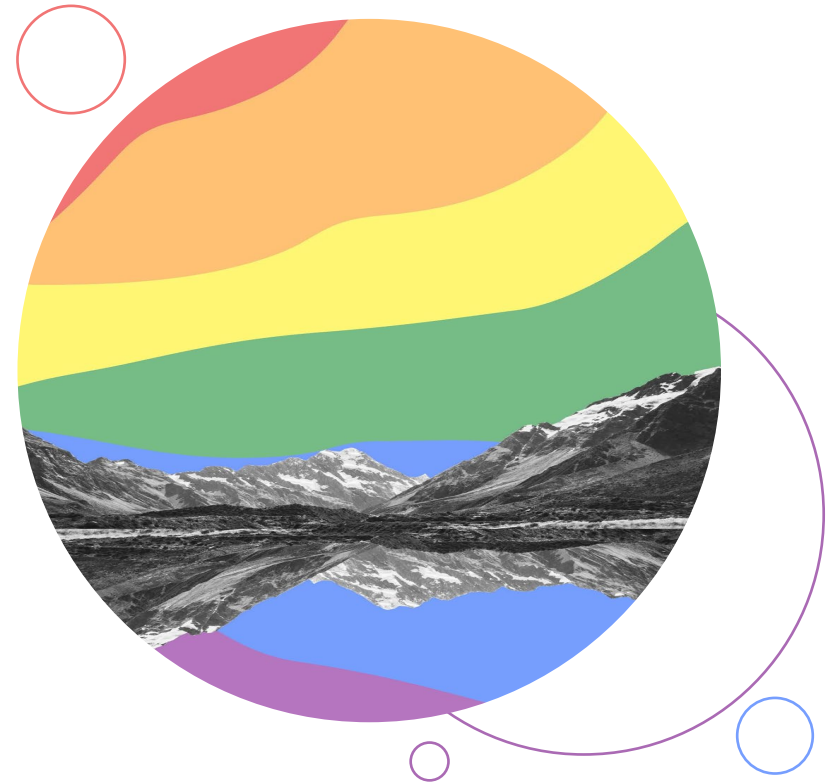
Defining transgender

To be transgender (trans) is to have a difference in your sex assigned at birth and your gender identity. The term

References: 1. Berner, A et al. Best Practice & Research Clinical Endocrinology & Metabolism 2024;38(5):101909 2. OUTpatients and BOPA. 2024. Available at: [TRANS:cribing – OUTpatients](#) (Last accessed: October 2024)

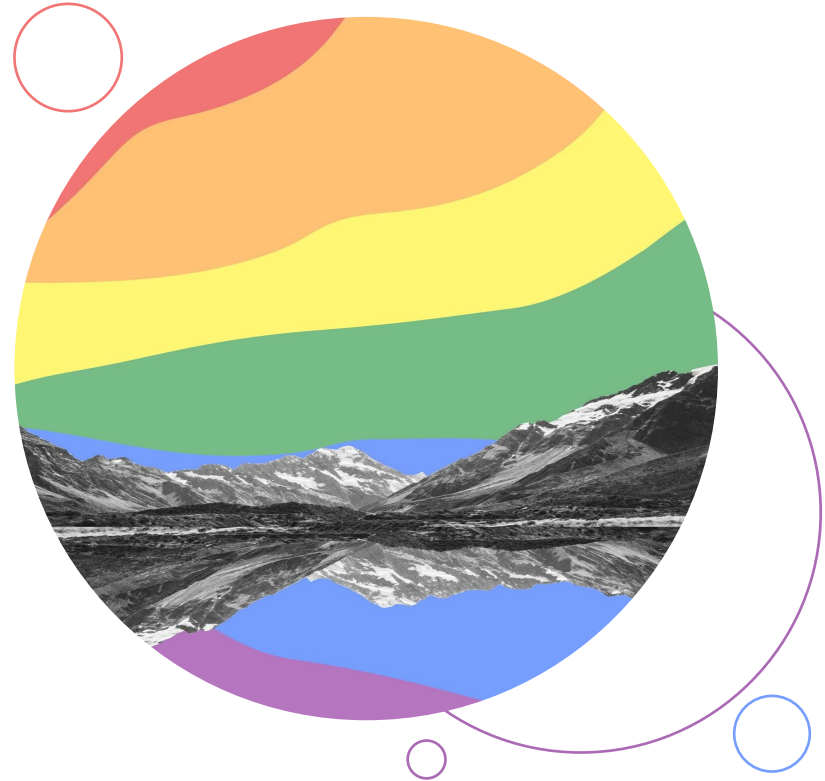
Q&A Session

Dr Dan Saunders



Closing Poll

Dr Dan Saunders



Closing Poll: Question 1



I understand how receiving gender affirming hormone therapy (GAHT) may impact cancer risk and cancer care for transgender and non-binary patients.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*



Abbreviations: GAHT: Gender affirming hormone therapy

Closing Poll: Question 2



I am aware of the drug-drug interactions between cancer therapies and GAHT.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*



Abbreviations: GAHT: Gender affirming hormone therapy

Closing Poll: Question 3



I am comfortable talking to transgender patients about the need to stop/pause GAHT to avoid drug-drug interactions with cancer therapies.

- *Strongly agree*
 - *Agree*
 - *Neutral*
 - *Disagree*
- *Strongly disagree*



Abbreviations: GAHT: Gender affirming hormone therapy

Thank You

