Supplementary Table S1 Literature review search details (PubMed accessed 08.03.2020)

Article title: Transgender women in the female category of sport: Perspectives on testosterone suppression and performance advantage

Journal: Sports Medicine

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### Search terms

| Search term 1 | [AND] | Search term 2 |
|---------------|-------|---------------|
| trans [AND] sex [OR] gender [OR] gender identity [OR] (gender [AND] identity) transgender [OR] transgender persons [OR] (transgender [AND] persons) transwoman [OR] (trans [AND] woman) transwomen [OR] (trans [AND] women) transsexual [OR] transsexuals | | muscle [OR] muscles [OR] strength bone [OR] bones [OR] height body composition [OR] (body [AND] composition) sport [OR] sports [OR] performance exercise [OR] physical activity [OR] (physical [AND] activity) athlete [OR] athletes |

A full list of references is available on request.

### Sorting strategy

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Retrieved (1615)

Duplicated entries
Foreign (non-English) language

Abstract screening (1150)

Irrelevant studies e.g. “trans fatty acid”, “trans tibial amputation”
Studies in transgender men only

Transgender women
Non-specific (183)

Surgical practice (e.g. reassignment procedures; 26)
Endocrinology practice (e.g. hormone delivery methods, dose guidelines; 23)
General health (e.g. managing weight, trans-sensitive consultation guidelines; 29)
Sexual health (e.g. HIV programmes; 3)
Mental health (e.g. coping with dysphoria, eating disorders; 37)

Transgender women
Sports-relevant (65)

Technical sex testing (3)
Social inclusion (24)

Transgender women
Body composition
Bone density only (24, including 8 reviews and 1 clinical guidance document)
Including lean body mass, muscle mass and/or strength measurements (14)
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Declarations

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Conflicts of interest: Emma N Hilton and Tommy R Lundberg declare that they have no conflict of interest.

Authorship contributions: Both authors (ENH and TRL) were involved in the conception and design of this paper, and both authors drafted, revised and approved the final version of the paper.

Ethics approval: Not applicable

Informed consent: Not applicable

Data availability: Available upon request