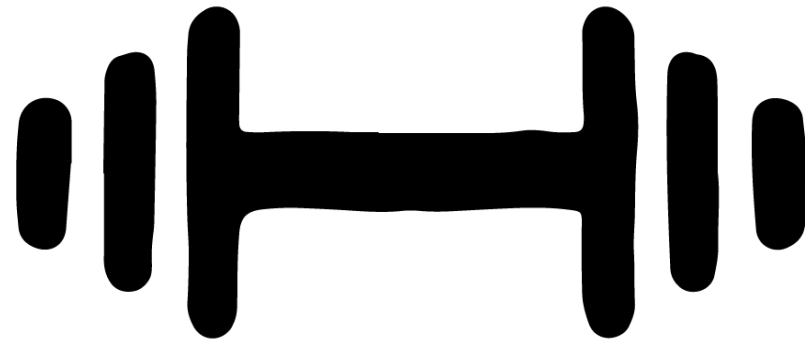


Anabolic steroid and other doping substance use among Finnish prisoners

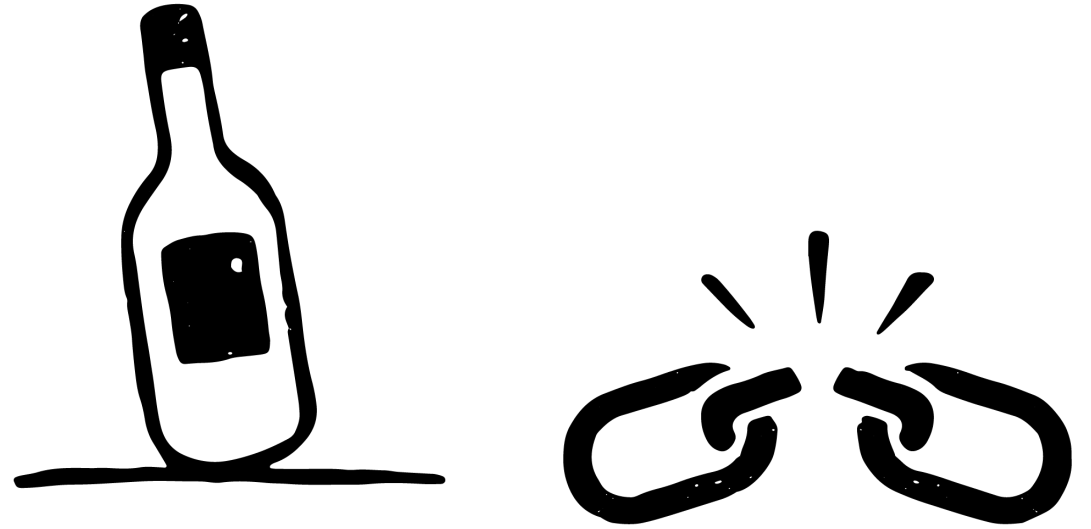
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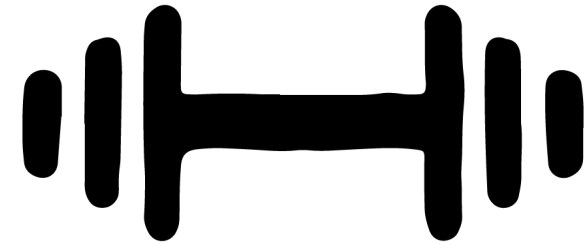


Background

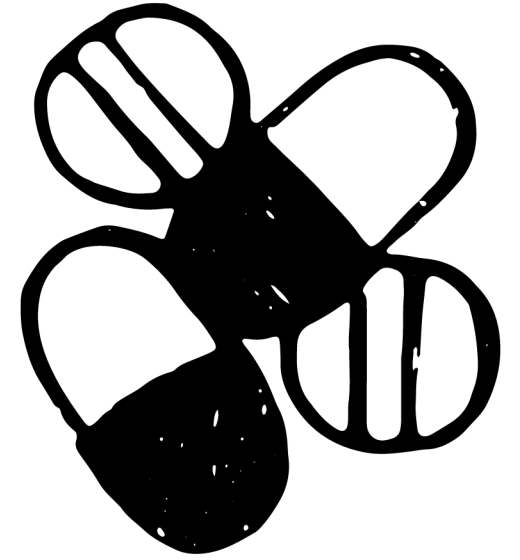


A-Clinic Foundation 1955→

Dopinglinkki 2010→



Prevalence



Finnish national survey 2010 →

~ 1%

Global anabolic steroid use*

6.4% men

1.6% women

* Sagoe D et al. The global epidemiology of anabolic-androgenic steroid use: A meta-analysis and meta-regression analysis. *Ann Epidemiol.* 2014;24(5):383-98.

Previously studied



Lifetime AAS use 30.0% of male, 6.4% of female prisoners.
Havnes et al., 2020 [1]



AAS experience: 5.0% of female and 28.1% male. Lundholm et al., 2010 [2]



AAS use in the current prison 3.7%. Korte et al., 1998. [3]

[1] Ingrid Amalia Havnes, Anne Bukten, Eline Borger Rognli, Ashley Elizabeth Muller. Use of anabolic-androgenic steroids and other substances prior to and during imprisonment - Results from the Norwegian Offender Mental Health and Addiction (NorMA) study, Drug and Alcohol Dependence, 2020.

[2] Lena Lundholm, Kerstin Käll, Sussi Wallin, Ingemar Thiblin. Use of anabolic androgenic steroids in substance abusers arrested for crime, Drug and Alcohol Dependence, 2010.

[3] Taimi Korte, Jaana Pykäläinen, Timo Seppälä. Drug abuse of Finnish male prisoners in 1995, Forensic Science International, 1998. .

Background



Questionnaires

Mental health interview

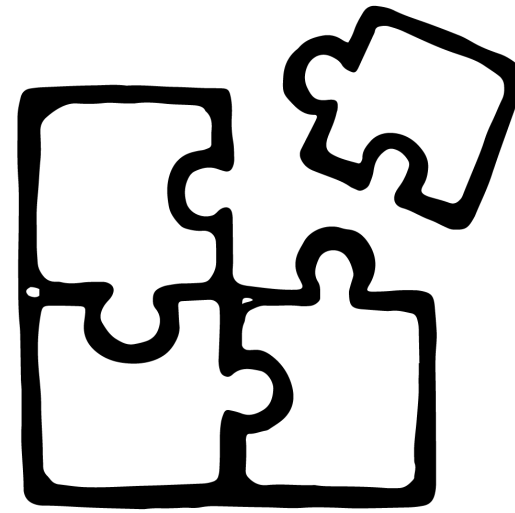
Measurements

Oral health



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Sample



Men n=403

Women n=126

Average age

37.0 (11.0)

37.4 (9.8)

Principal offence category

Drug offence

94 (23.3%)

20 (20.6%)

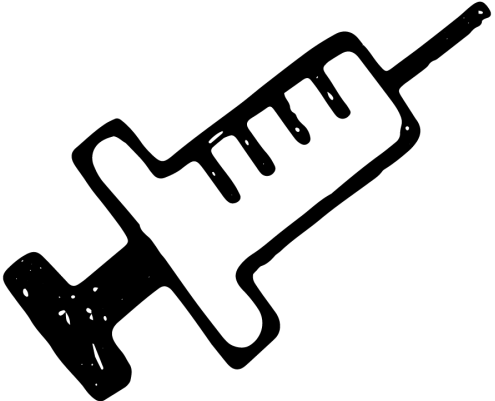
Violent offence

206 (51.1%)

61 (51.6%)



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Results

Used doping agents 34 %

Men

Women

44%

4%

Doping use during imprisonment

20%

Most commonly used

Testosterone

45%

AAS

35%

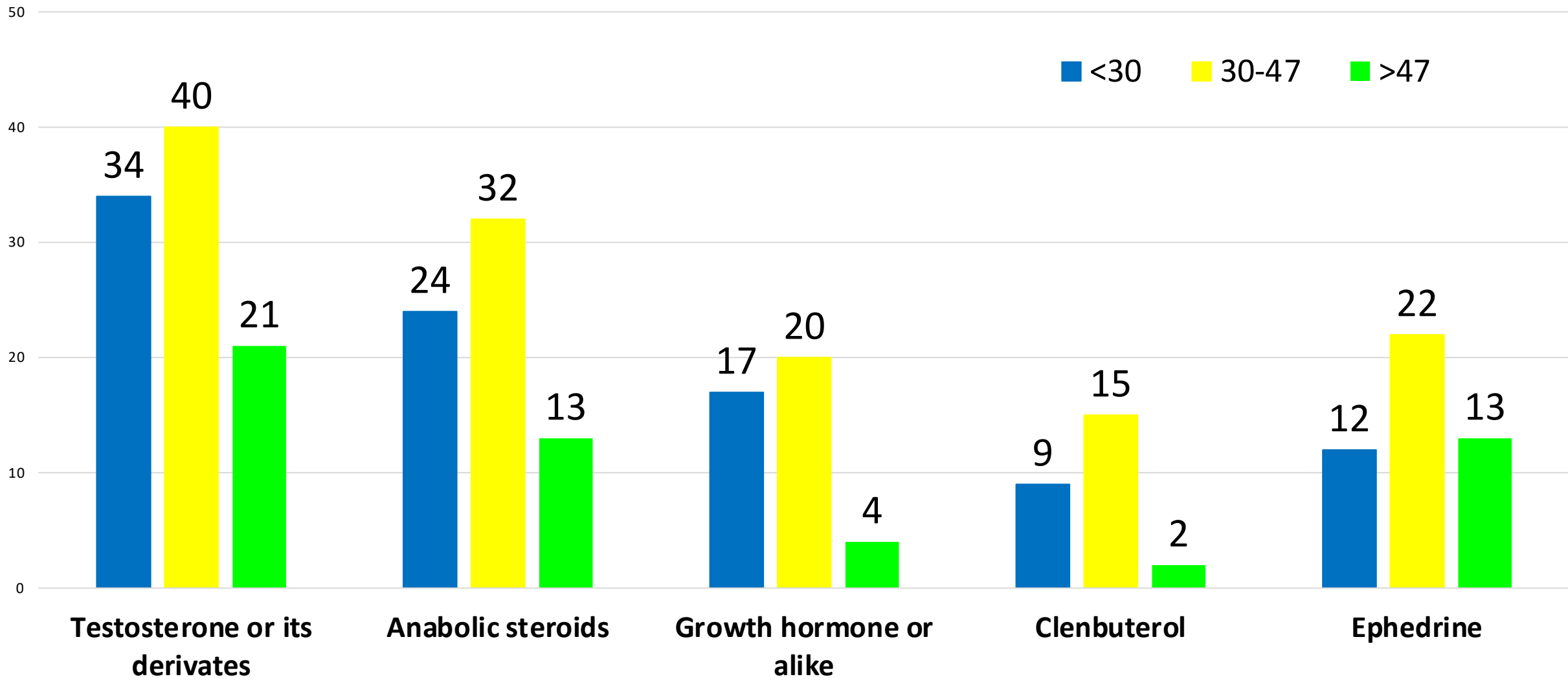
Ephedrine

10%

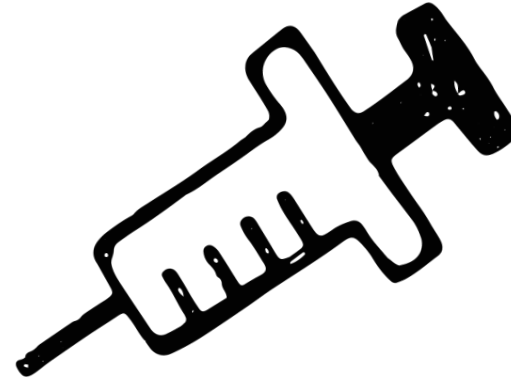


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Use of doping substances by age groups (%)



Results



HCV among who injected doping substances 54%

Doping users (injecting) started injecting in prison 49%



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Recommendations

Education

Research based information

Development of health services in prison

Future research



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Thank you!

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