

2018 May 4th

Ultrasound af testes

- An epidemiological approach

PhD fellow Malene Roland Pedersen

Department of Radiology Vejle Hospital

Testicular microlithiasis?



- Calcification of 1 - 3 mm in size
- Incidental finding during US
- Pain and symptomless
- Prevalence mellem 0.9 -18 %
- Testicular microlithiasis is often bilateral
- Suggested associated with testes cancer

Testicular microlithiasis imaging and follow-up: guidelines of the ESUR scrotal imaging subcommittee

Jonathan Richenberg · Jane Belfield · Parvati Ramchandani · Laurence Rocher ·
Simon Freeman · Athina C. Tsili · Faye Cuthbert · Michel Studnicka ·
Michele Bertolotto · Ahmet Tunçay Turgut · Vikram Dogra · Lorenzo E. Derchi

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Abstract

Objectives The subcommittee on scrotal imaging, appointed by the board of the European Society of Urogenital Radiology (ESUR), have produced guidelines on imaging and follow-up in testicular microlithiasis (TML).

Methods The authors and a superintendent university librarian independently performed a computer-assisted literature search of medical databases: MEDLINE and EMBASE. A further parallel literature search was made for the genetic conditions Klinefelter's syndrome and McCune-Albright syndrome.

Results Proposed guidelines are: follow-up is not advised in patients with isolated TML in the absence of risk factors (see Key Points below); annual ultrasound (US) is advised for patients with risk factors, up to the age of 55; if TML is found with a testicular mass, urgent referral to a specialist centre is advised.

Conclusion Consensus opinion of the scrotal subcommittee of the ESUR is that the presence of TML alone in the absence of other risk factors is not an indication for regular scrotal US, further US screening or biopsy. US is recommended in the follow-up of patients at risk, where risk factors other than microlithiasis are present. Risk factors are discussed and the

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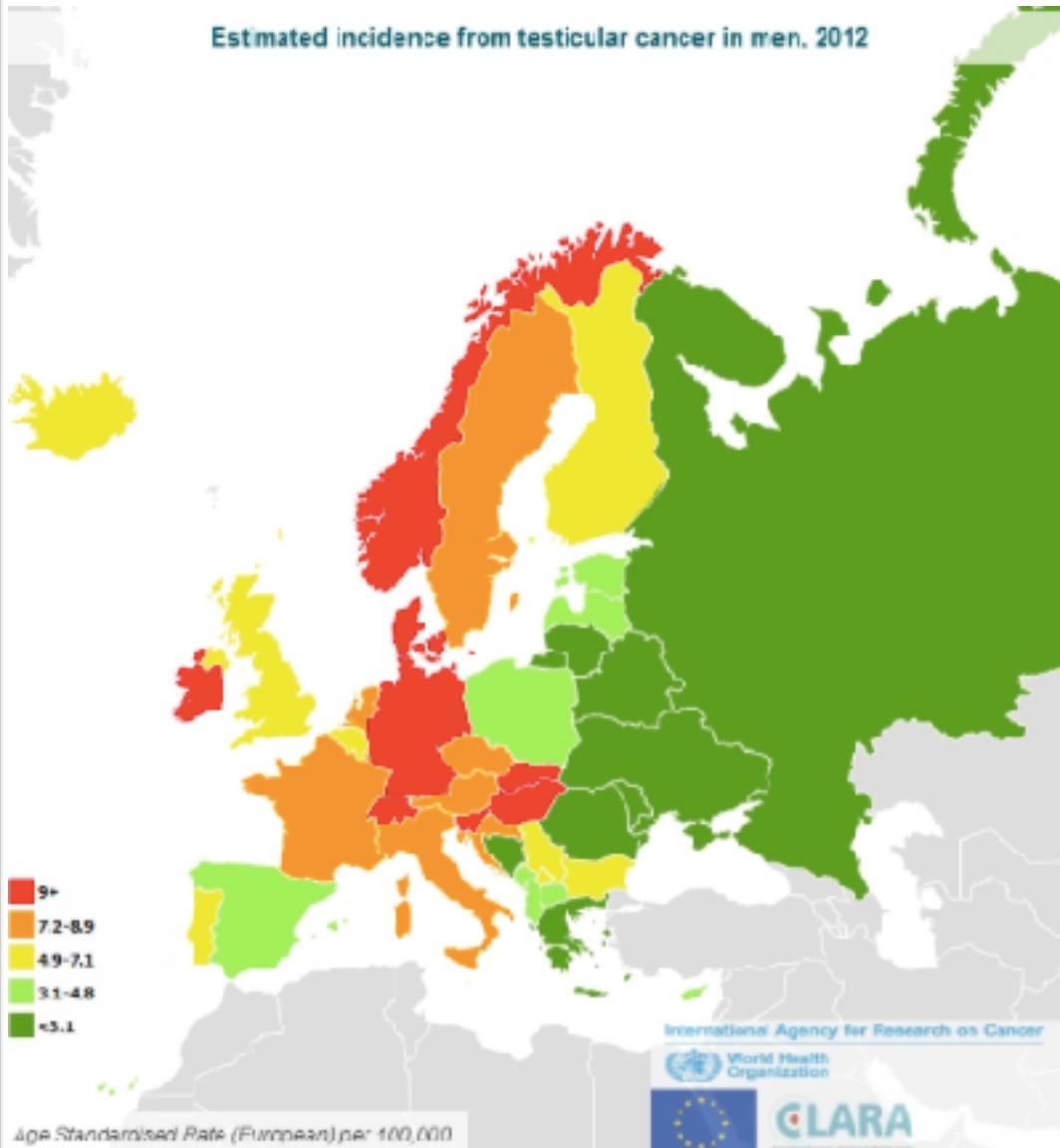
Testicular microlithiasis and risk factors

- Previously diagnosed with T. C
- History of maldescent
- History of Orchidopexy
- Atrofi (testis less than 12 ml)
- T. C in 1 generation relative (e.g. father, brother)

Follow-up US

- Up to the age of 55
- Yearly if risk factors

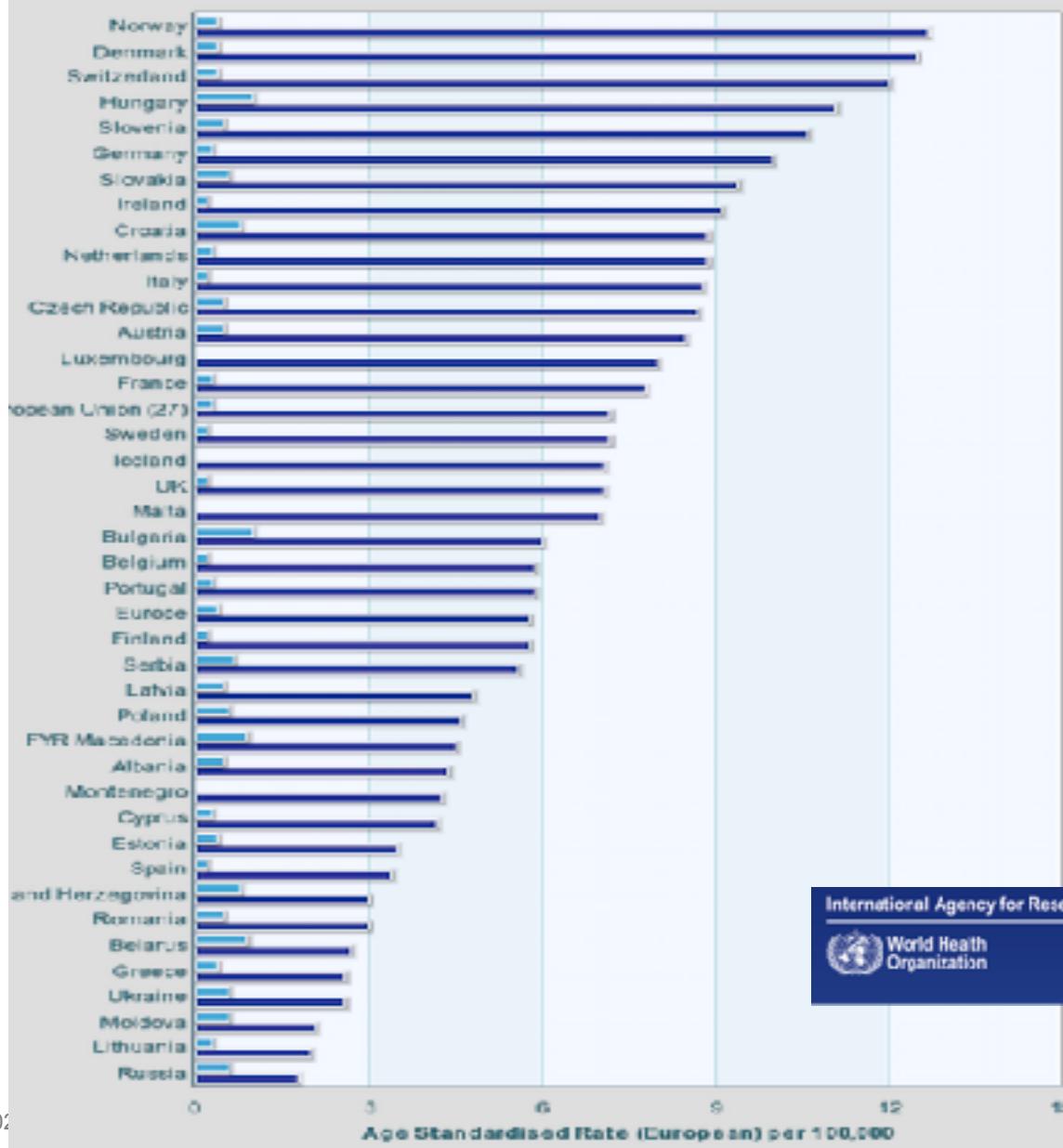
Estimated incidence from testicular cancer in men, 2012



WHO EUCAN factsheet

Sygehus Lillebælt

Estimated incidence and mortality from testicular cancer, 2012



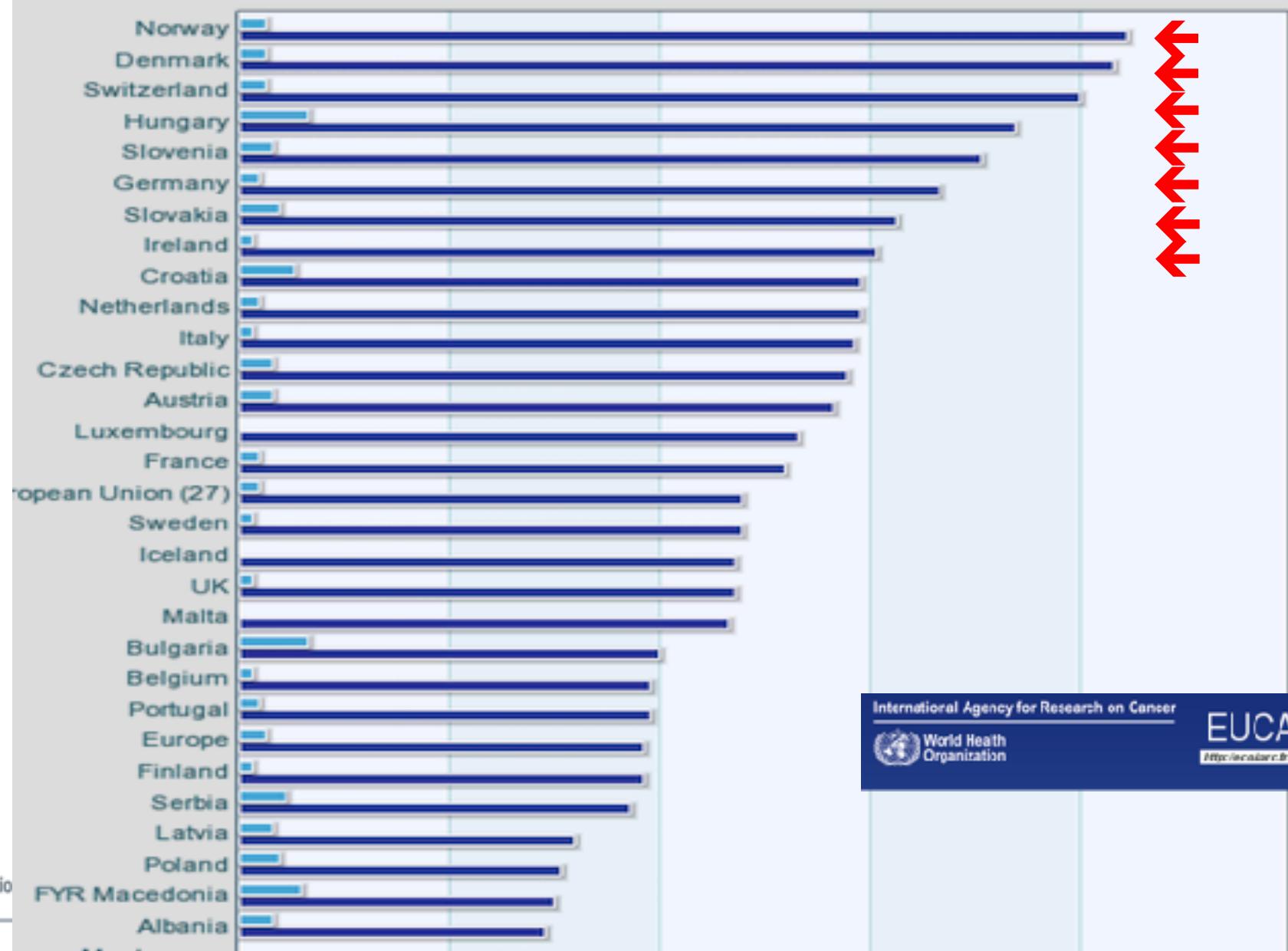
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World Health Organization

EUCAN
<http://eucan.iarc.fr/eucan>

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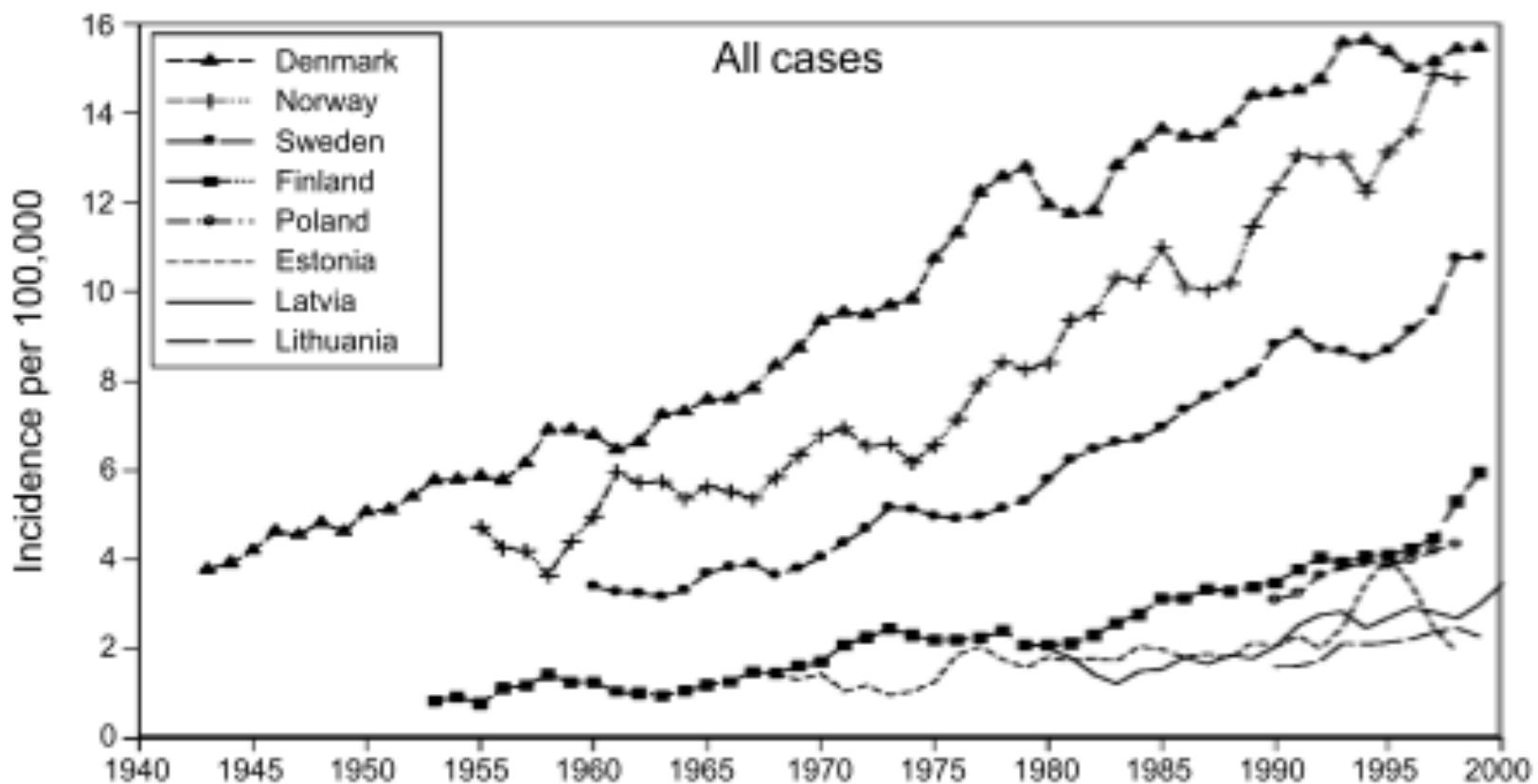


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Kilde: Trends in testicular cancer incidence and mortality in 22 European countries:
Continuing increases in incidence and declines in mortality

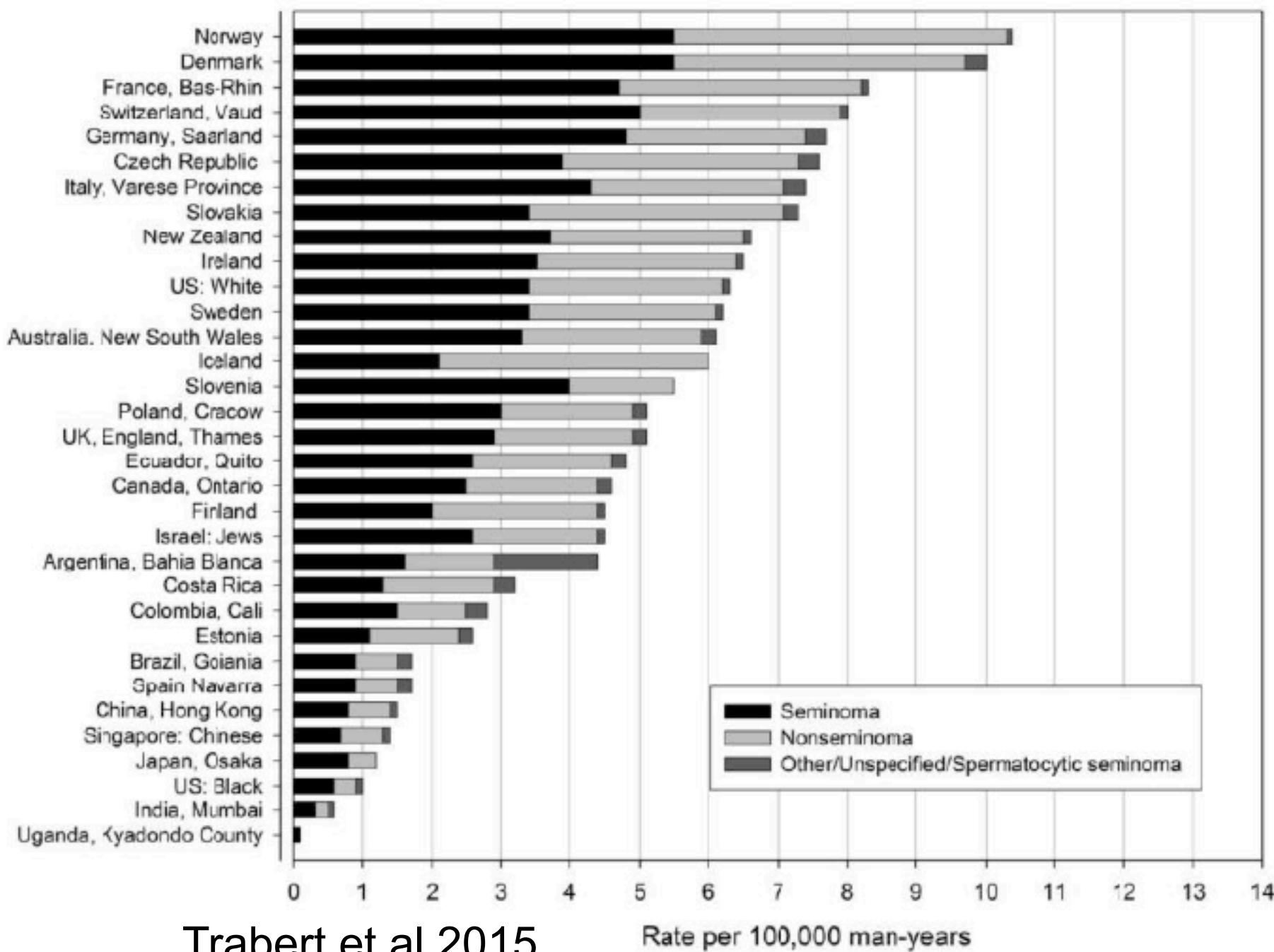
Freddie Bray, Lorenzo Richiardi, Anders Ekbom, Eero Pukkala, Martina Cuninkova and Henrik
Møller

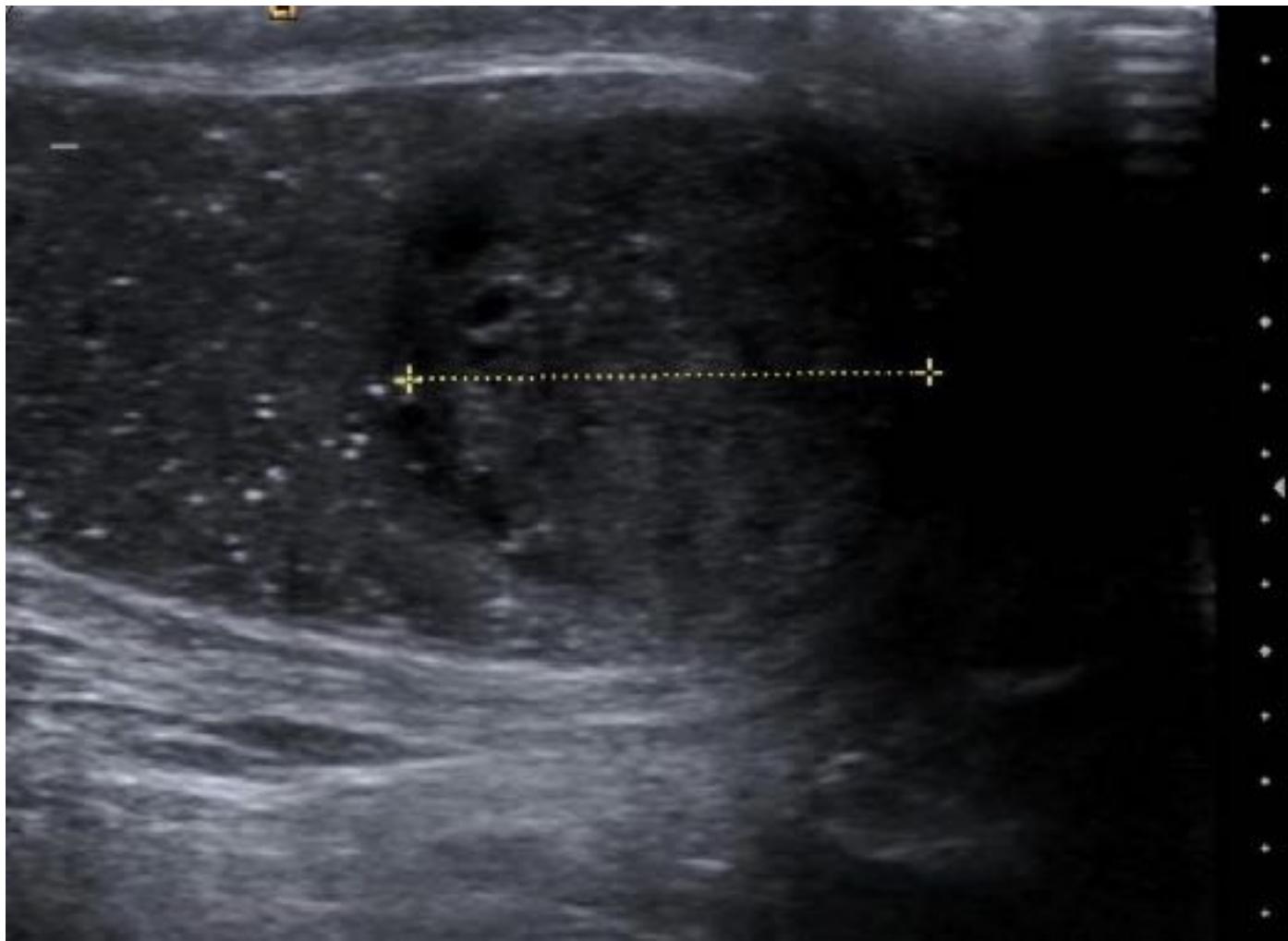
Int. J./Cancer: 118, 3099–3111 (2006)

Table 2 Distribution of registered cancers from 2001-2007 in England by ethnic group and missing ethnicity values (percentages in brackets)

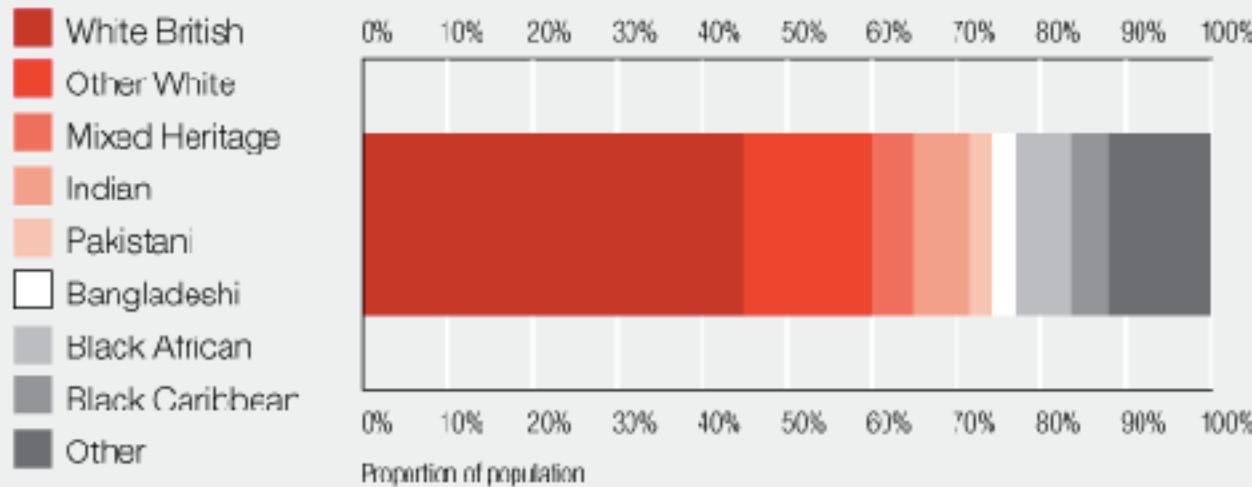
Cancer	White	Indian	Pakistani	Bangladeshi	Black African	Black Caribbean	Chinese	All other ethnic groups	No ethnicity recorded	Total
Prostate	132278 (62.5)	934 (0.4)	491 (0.2)	90 (0.0)	861 (0.4)	3185 (1.5)	226 (0.1)	10624 (5.0)	63068 (29.8)	2'1757
Testes	50133 (81.2)	223 (0.4)	117 (0.2)	42 (0.1)	69 (0.1)	186 (0.3)	62 (0.1)	3135 (5.1)	7762 (12.6)	61729
Kidney	7890 (65.7)	88 (0.7)	65 (0.5)	8 (0.1)	17 (0.1)	28 (0.2)	18 (0.2)	831 (6.9)	3064 (25.5)	12009
Bladder	32775 (74.4)	246 (0.6)	170 (0.4)	58 (0.1)	146 (0.3)	239 (0.5)	57 (0.1)	2465 (5.6)	7873 (17.9)	44029
All four cancers	223076 (67.7)	1491 (0.5)	843 (0.3)	198 (0.1)	1093 (0.3)	3638 (1.1)	363 (0.1)	17055 (5.2)	81767 (24.0)	329524

Maruthappu et al . BMC Cancer (2015) 15:753.





Ethnicity in London and the rest of England

[Download Chart](#)[Download Data](#)

Source: Census 2011

<http://www.londonspovertyprofile.org.uk/indicators/topics/londons-geography-population/londons-population-by-ethnicity/>



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Department

[Cancer Epidemiology & Population Health](#)

Clinical Academic Group

[Cancer Clinical Academic Group](#)

Research Interests

Cancer epidemiology; health services research; population health.







Scrotal calcification in a symptomatic paediatric population: Prevalence, location, and appearance in a cohort of 516 patients

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Scrotal calcification in a population-based cohort

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Testicular calcification and microlithiasis: association with primary intra-testicular malignancy in 3,477 patients

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Abstract The prevalence of all forms of scrotal and testicular calcification and their association with testicular tumour in a symptomatic paediatric and adult population was investigated. A retrospective study of all testicular ultrasound examinations performed at a single centre over a 5-year period was undertaken. All studies were performed by experienced operators, recorded in a standard method,

was 2.0%, and the prevalence of other non-microlithiasis testicular calcification (non-TM calcification) was 1.7%. Testicular tumour was associated with TM (odds ratio 9.5, $P<0.001$) and non-TM calcification (odds ratio 11.4, $P<0.001$) but not with other types of scrotal calcification. A total of 198 paediatric examinations were analysed. Prevalence of TM was 2.0% and the prevalence of non-TM

Testicular Microlithiasis: Is Sonographic Surveillance Necessary? Single Centre 14 Year Experience in 442 Patients with Testicular Microlithiasis

Testikuläre Mikrolithiasis: Ist die sonografische Überwachung notwendig? 14 Jahre monozentrische Erfahrung bei 442 Patienten mit testikulärer Mikrolithiasis

Authors

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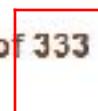
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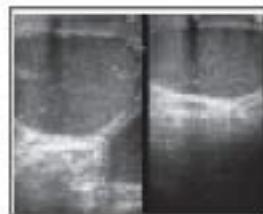
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Results by year

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PMC Images search for testicular microlithiasis



THE PREVALENCE OF TESTICULAR MICROLITHIASIS IN AN ASYMPTOMATIC POPULATION OF MEN 18 TO 35 YEARS OLD

ANDREW C. PETERSON, JOHN M. BAUMAN, DAWN E. LIGHT, LEAH P. MCMANN AND
RAYMOND A. COSTABILE*,†

From the Department of Surgery, Urology Service and Department of Radiology, Madigan Army Medical Center, Tacoma, Washington

ABSTRACT

Purpose: Testicular microlithiasis is an imaging entity of the testicle thought to be a marker of testicular cancer. To our knowledge the prevalence of testicular microlithiasis in an asymptomatic population at risk for testicular cancer is unknown. We report an ultrasound screening study done to establish the prevalence of testicular microlithiasis in an asymptomatic population.

Materials and Methods: Healthy men 18 to 35 years old from the annual Army Reserve Officer Training Corps training camp volunteered for study. A screening genitourinary history was obtained, and physical examination and screening scrotal ultrasound were performed. We defined testicular microlithiasis as more than 5 high intensity signals on ultrasound with each signal larger than 2 mm. We categorized testicular microlithiasis into microcalcifications that were scant—5 to 25 per side, moderate—greater than 25 per side but no areas of near confluence and too numerous to count. In all subjects with testicular microlithiasis tumor markers were also

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Results: Of 1,504 evaluated men with a mean age of 22.4 years, 84 (5.6%) had testicular microlithiasis, including 45 of 1,053 white (4%), 21 of 149 black (14.1%), 6 of 71 Hispanic (8.4%) Asian or Pacific Island (5.6%) men and 9 of 174 (5.2%) who claimed no race affiliation.

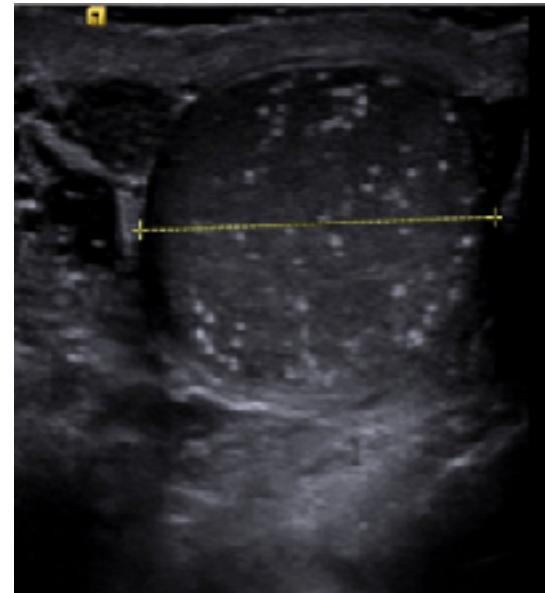
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Research question

Is Testicular Microlithiasis associated with ethnicity and socio economic status in symptomatic men?



Materials and Methods

- Retrospective study

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- PACS: 39.961 scrotum investigations (1998-2015)

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- 1105 TML cases

Materials and Methods

- Retrospective study
- PACS: 39.961 scrotum investigations (1998-2015)
- 1105 TML cases
- 1105 random controls (NO TML!)

DATA

- Age



DATA

- Age
- Etnicity



Table 5. Description of grouped ethnic categories used in Hospital Episode Statistics

Inpatient 1995-2000	Inpatient 2001 onwards	Outpatients 2003 onwards and A&E 2008 onwards
0 White	A British (White)	An = British (White)
1 Black Caribbean	B Irish (White)	Bn = Irish (White)
2 Black African	C Any other White background	Cn = Any other White background
3 Black Other	D White and Black Caribbean (Mixed)	Dn = White and Black Caribbean (Mixed)
4 Indian	E White and Black African (Mixed)	En = White and Black African (Mixed)
5 Pakistani	F White and Asian (Mixed)	Fn = White and Asian (Mixed)
6 Bangladeshi	G Any other Mixed background	Gn = Any other Mixed background
7 Chinese	H Indian (Asian or Asian British)	Hn = Indian (Asian or Asian British)
8 Any other ethnic group	J Pakistani (Asian or Asian British)	Jn = Pakistani (Asian or Asian British)
9 Not given	K Bangladeshi (Asian or Asian British)	Kn = Bangladeshi (Asian or Asian British)
X Not known	L Any other Asian background	Ln = Any other Asian background
	M Caribbean (Black or Black British)	Mn = Caribbean (Black or Black British)
	N African (Black or Black British)	Nn = African (Black or Black British)
	P Any other Black background	Pn = Any other Black background
	R Chinese (other ethnic group)	Rn = Chinese (other ethnic group)
	S Any other ethnic group	Sn = Any other ethnic group
	Z Not stated	Zn = Not stated
	Z Not known	X = Not known

Availability and use of UK based ethnicity data for health research

Rohini Mathur, Pathways, LSHTM

Emily Grundy, Pathways, University of Cambridge

Liam Smeeth, Pathways, LSHTM

gov.scot

Collecting equality information - guidance for asking questions

and Society | Equality | Equality Evidence | Equality Evidence Framework | Gathering Equality

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Collecting equality information

This page contains the guidance notes on the recommended questions to ask when collecting information on:

age, disability, ethnic group, gender, religion or belief and sexual orientation.

Currently, there is no fully tested recommended question with which to collect information on gender identity in surveys or other data sources. A recent project carried out for the Equality and Human Rights Commission began work into this and the Scottish Government is considering future work in this area.

Collecting equality information - guidance for asking questions

Downloadable documents:

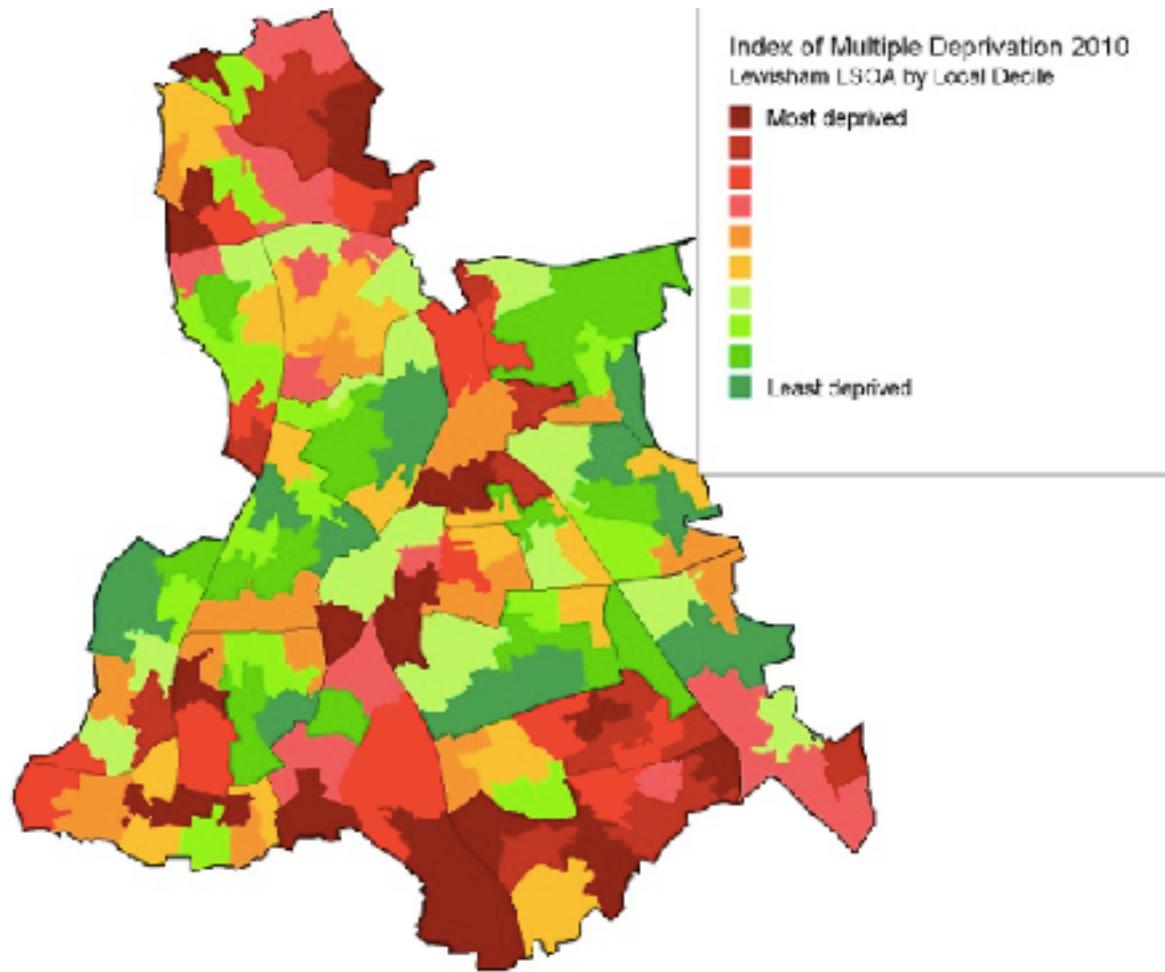
Title:	Collecting equality information - guidance for asking questions
Description:	Guidance on collecting information on equality characteristics.
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File:	Collecting Equality Information Guidance on Asking Questions on: Sexual Orientation [PDF, 86.1 kb: 18 May 2012] Open Open in new window
File:	Collecting Equality Information Guidance on Asking Questions on: Ethnic Group [PDF, 71.5 kb: 31 May 2012] Open Open in new window

DATA

- Age
- Etnicity
- Post codes



Post nummer – IMD – Index of Multiple Deprivation



Post nummer – IMD – Index of Multiple Deprivation

Basic concepts

The Index of Multiple Deprivation (IMD) 2010 data released by the Esri UK education team is mapped at Lower Super Output Area (LSOA) for England and Wales.

The data is made available in regional areas (South West, South East etc.) and can be used in ArcGIS Online with either the free single user Public Account or a Subscription Account (£100 + VAT per year for schools)

The deprivation data contains the overall index of deprivation as well as the different indices that make up the index. These include:

- Income deprivation
- Employment deprivation
- Health deprivation
- Education deprivation
- Crime deprivation
- Barriers to housing and services deprivation
- Living environment deprivation

The data is structured in a relative ranking system that compares the relative deprivation for each LSOA. For example, in England, there are 32,482 LSOA's where 1 is the most deprived and 32,482 is the least deprived.



English indices of deprivation 2015

Postcode Lookup

Use this tool to obtain deprivation data for up to 10,000 post codes at a time.

Enter Postcodes (one per line)

Enter one postcode per line

and / or upload a file of postcodes

[View archive](#) [Import archive](#)

Tip: Upload a single column Excel spreadsheet or CSV file with one postcode per line, eg

M1 1EA

M1 2EA

[Get Deprivation Data](#)

File Formats

Results are returned in Excel format or as Comma Separated Values (CSV) for easy re-use in your preferred application, e.g. spreadsheet, GIS system or database.

Data Output



Mapping deprivation to UK postcodes

« Previous / Next »

Robert / 24 August, 2012 / learning, noticeboard

The screenshot shows a Microsoft Excel window with the title bar '_download_66942641_matched.csv [Read-Only] - Microsoft Excel'. The ribbon menu is visible with tabs Home, Insert, Page Layout, Formulas, Data, Review, View, and Developer. The Home tab is selected. The Excel interface includes standard toolbars for Clipboard, Font, Alignment, Number, Styles, Cells, and Editing. The worksheet contains two rows of data:

	A	B	C	D	E	F	G	H	I	J
1	Postcode	IMD 200710nov								
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The status bar at the bottom shows the file name '_download_66942641_matched' and the zoom level '100%'. The logo 'Region Syddanmark' with a stylized green leaf is visible in the bottom left corner.

Post nummer – IMD – Index of Multiple Deprivation

deprivation-by-postcode.xlsx-2.csv

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2	M1 1EA	Live	E01033653	Mancheste	9762	3	15735	5	0.119	32276	10	0.026	22062	7
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Income Decile

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1	Postcode	Postcode S	LSOA code	LSOA Name	Index of Mi	Index of Mi	Income Ran	Income Dec	Income Soc	Employer	Employer	Employer	Education	Education
2	M1 1EA	Live	E01033653	Mancheste	9762	3	15735	5 0.1	32276	10 0.026	22062	7		
3														
4														
5														
6														
7														
8														
9														
10														

DATA

- Age
- Ethnicity
- Post code
- TML
 - right/left
 - Limited/Classic
 - Macro calcifications



Results

Median age

TML : 37 years

Control: 38 years

Results

Median age

TML : 37 years

Kontrol: 38 years

Makro calcifications in 159 TML patienter (14.4%)

Results

Table 1. The distribution of ethnicity and socioeconomic status between the TML cases and the control group.

Characteristics	TML (%) n=1105	Controls (%) n=1105	OR ¹	95% CI	OR ²	95% CI
White	423 (38.3)	560 (50.7)	1.00		1.00	
Black	273 (24.7)	171 (15.5)	2.17	1.72–2.75	1.73	1.35–2.21
Other	152 (13.7)	111 (10.0)	1.86	1.39–2.46	1.61	1.20–2.15
Not known	257 (23.3)	263 (23.8)	1.11	0.89–1.39	1.04	0.83–1.32
IMD 1 (least deprived)	25 (2.3)	123 (11.1)	0.19	0.12–0.30	0.22	0.14–0.35
IMD 2	43 (3.9)	137 (12.4)	0.28	0.19–0.41	0.32	0.22–0.46
IMD 3	175 (15.8)	154 (14.0)	0.93	0.71–1.21	0.99	0.76–1.30
IMD 4	425 (38.5)	344 (31.1)	1.00	—	1.00	—
IMD 5 (most deprived)	385 (34.8)	296 (26.8)	1.05	0.86–1.30	0.99	0.80–1.23
Not known	52 (4.7)	51 (4.6)	0.75	0.49–1.14	0.75	0.49–1.15

IMD quintile 1 is the most affluent and IMD quintile 5 the most deprived.

IMD, index of multiple deprivation; OR¹, adjusted for age and year; OR², adjusted for age and year and mutually adjusted.

Results

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IMD 1 (least deprived)	25 (2.3)	123 (11.1)	0.19	0.12–0.30	0.22	0.14–0.35
IMD 2	43 (3.9)	137 (12.4)	0.28	0.19–0.41	0.32	0.22–0.46
IMD 3	175 (15.8)	154 (14.0)	0.93	0.71–1.21	0.99	0.76–1.30
IMD 4	425 (38.5)	344 (31.1)	1.00	—	1.00	—
IMD 5 (most deprived)	385 (34.8)	296 (26.8)	1.05	0.86–1.30	0.99	0.80–1.23
Not known	52 (4.7)	51 (4.6)	0.75	0.49–1.14	0.75	0.49–1.15

IMD quintile 1 is the most affluent and IMD quintile 5 the most deprived.

IMD, index of multiple deprivation; OR¹, adjusted for age and year; OR², adjusted for age and year and mutually adjusted.

Results

Table 1. The distribution of ethnicity and socioeconomic status between the TML cases and the control group.

Characteristics	TML (%) n=1105	Controls (%) n=1105	OR ¹	95% CI	OR ²	95% CI
White	423 (38.3)	560 (50.7)	1.00		1.00	
Black	273 (24.7)	171 (15.5)	2.17 ↙	1.72–2.75	1.73	1.35–2.21
Other	152 (13.7)	111 (10.0)	1.86	1.39–2.46	1.61	1.20–2.15
Not known	257 (23.3)	263 (23.8)	1.11	0.89–1.39	1.04	0.83–1.32
IMD 1 (least deprived)	25 (2.3)	123 (11.1)	0.19	0.12–0.30	0.22	0.14–0.35
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Conclusion

- Black men had increased prevalence of Testicular Microlithiasis compared to White men.
- Men from the most deprived socioeconomic groups had higher prevalence of Testicular Microlithiasis than men in the most affluent groups.

Testicular microlithiasis is associated with ethnicity and socioeconomic status

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Abstract

Background: There are limited studies about testicular microlithiasis (TML) and background information such as health, lifestyle, and socioeconomic status.

Purpose: To assess the prevalence of TML in relation to socioeconomic status and ethnicity.

Material and Methods: From a database of scrotal ultrasound examinations in a single institution, all men who underwent routine ultrasound examinations for a variety of symptoms from 1998 to 2015 were included. Skilled observers performed all examinations, and presence of any form of intra-testicular calcification, including TML, was recorded on the examination report and a representative image obtained and stored. A total of 1105 cases with TML

