

Overcoming the ambiguity of sexual partnership type:



A novel categorisation using data from Britain's 3rd National Survey of Sexual Attitudes & Lifestyles (Natsal-3)

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Aims

To examine:

1. whether partnership characteristics, specifically:
 - Partnership duration
 - Perceived likelihood of having sex again with the partner
 ...can be used to distinguish between different types of sexual partnership
2. whether, and if so how, reporting STI diagnoses varies according to recent sexual partnership history
 ...above and beyond the number of partners reported.



Methods



Data source	Britain's 3 rd National Survey of Sexual Attitudes & Lifestyles (Natsal-3)
Fieldwork dates	2010-2012
Sample size	15,162
Age range	16-74y
Target population	British resident population
Data collection method	CAPI (face-to-face) & CASI
Response rate	58%
Co-operation rate	66% (interviews completed from eligible addresses for which contact was made)
Further details	www.natsal.ac.uk & Erens et al, STI 2013



Background



- Understanding STI risk requires knowledge not only of the *number* of sexual partners someone has, but also the *nature* of those relationships.
 - reflected in the UK's clinical guidelines on STI risk assessment
 - influences PN decision-making & outcomes
- Despite its clinical & epidemiological relevance, there is a lack of consensus as to what constitutes different types of partnership
- Considerable subjectivity exists in defining partnership type
- Rendering comparisons of audit and research findings problematic.



Methods



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Methods



- Study population limited to the 11,040 participants who reported ≥1 partner in the past year as this timeframe reduces:
 - Recall error
 - Proportion of participants reporting >3 partners as these higher-order partners weren't asked about in this module
- Questions of particular relevance to this study:
 - Month & year of 1st & most recent sex with the partner ...used to calculate partnership duration
 - Perceived likelihood of having sex again with the partner ...'yes', 'probably', 'probably not', 'no', 'don't know'
 - Relationship status at 1st & most recent sex



Relationship status at most recent sex						
Relationship status at 1 st sex	Met for the 1 st time	Recently met	Known each other a while	Steady relationship	Living together/ married	Ex-steady relationship
Met for the 1 st time						
Recently met						
Known each other a while						
Steady relationship						
Living together/ married						
Ex-steady relationship						

36 'Partnership Progression Types'

		Relationship status at most recent sex					
Relationship status at 1 st sex		Met for the 1 st time	Recently met	Known each other a while	Steady relationship	Living together/ married	Ex-steady relationship
	Met for the 1 st time	✓	✓	✓	✓	✓	✓
	Recently met	X	✓	✓	✓	✓	✓
	Known each other a while	X	X	✓	✓	✓	✓
	Steady relationship	X	X	X	✓	✓	✓
	Living together/ married	X	X	X	✓	✓	✓
	Ex-steady relationship	X	X	X	✓	✓	✓

36 'Partnership Progression Types'

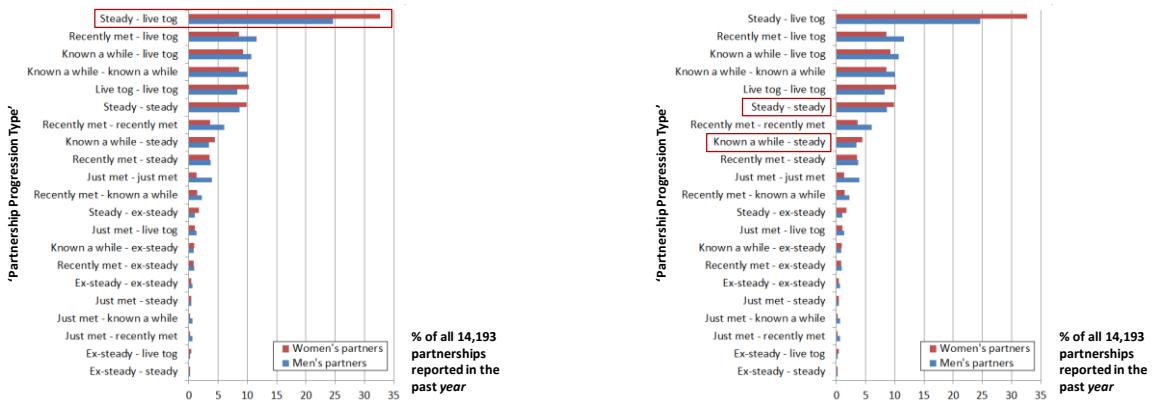
		Relationship status at most recent sex					
Relationship status at 1 st sex		Met for the 1 st time	Recently met	Known each other a while	Steady relationship	Living together/married	Ex-steady relationship
	Met for the 1 st time	✓	✓	✓	✓	✓	✓
	Recently met	X	✓	✓	✓	✓	✓
	Known each other a while	✓	✓				
	PPT = Recently met -> Known each other a while						
Steady relationship	X	X	X	✓	✓	✓	✓
Living together/married	X	X	X	✓	✓	✓	✓
Ex-steady relationship	X	X	X	✓	✓	✓	✓

36 'Partnership Progression Types'

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Met for the 1 st time	✓	✓	✓	✓	✓	✓	✓
Recently met	X	✓	✓	✓	✓	✓	✓
Known each other a while	X	X	✓	✓	✓	✓	✓
Steady relationship	X	X	X	✓	✓	✓	✓
Living together/married	X	X	X	✓	✓	✓	✓
Ex-steady relationship	X	X	X	✓	✓	✓	✓

24 plausible 'Partnership Progression Types'

		Relationship status at most recent sex					
Relationship status at 1 st sex		Met for the 1 st time	Recently met	Known each other a while	Steady relationship	Living together/married	Ex-steady relationship
	Met for the 1 st time	✓	✓	✓	✓	✓	✓
	Recently met		✓	✓	✓	✓	✓
	Known each other a while			✓	✓	✓	✓
	Steady relationship				✓	✓	✓
	Living together/married				✓	✓	✓
	Ex-steady relationship				✓	✓	✓



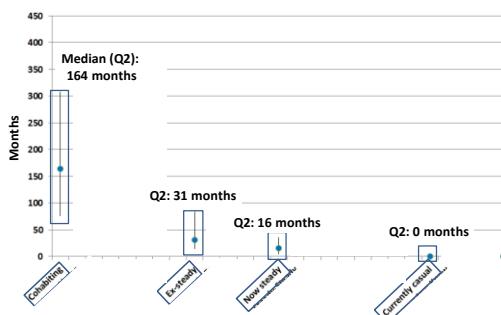
Using statistics to collapse the 24 Partnership Progression Types

- ANOVA with rank-transformed partnership duration data to investigate if statistically significant differences in partnership duration exist *between* - but not *within* - groups.
- Logistic regression then used to examine whether the likelihood of having sex again varied *between* the summary types identified in the ANOVA but not *within* the summary types.
- Survey functions in Stata v13 used for all analyses to account for the sample weighting, clustering, and stratification within the Natsal-3 sample.

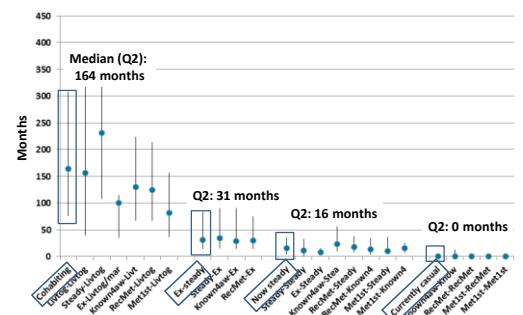
Results

- 24 Partnership Progression Types could be collapsed into 4 groups labelled:
 - Cohabiting
 - 'Ex-steady'
 - 'Now steady'
 - 'Currently casual' (as may go on to become 'now steady' etc)
- ...according to partnership duration & perceived likelihood of sex again

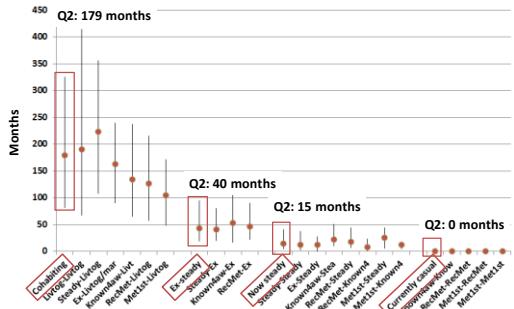
Median duration & IQR of partnership duration by PPT: Men's partnerships



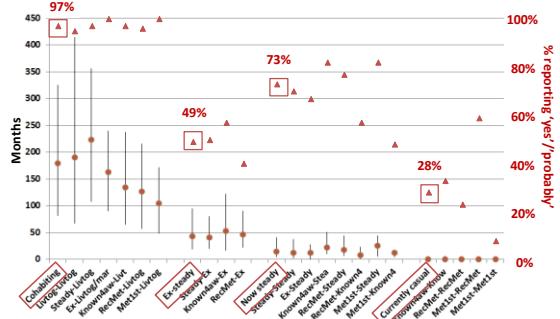
Median duration & IQR of partnership duration by PPT: Men's partnerships



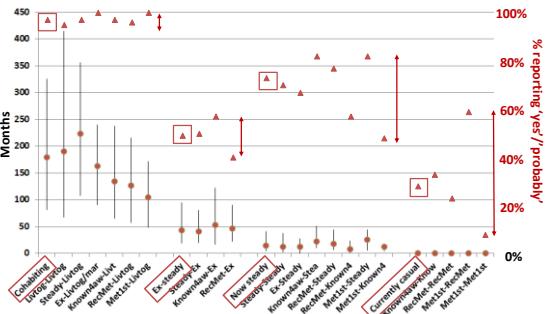
Median duration & IQR of partnership duration by PPT: Women's partnerships



Perceived likelihood of sex again: Women



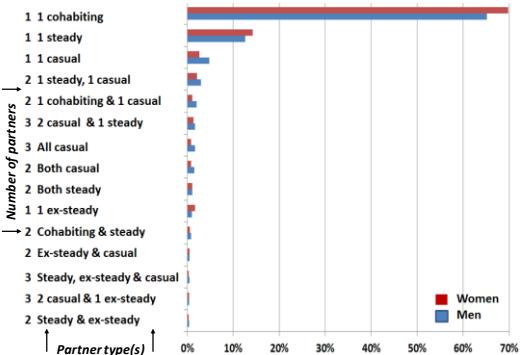
Perceived likelihood of sex again: Women



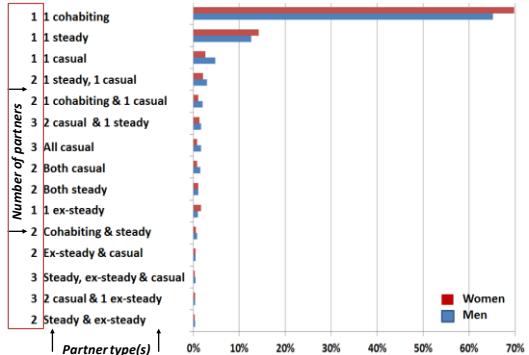
Participants' partnership histories in the past year

- Each participant could report ≤3 partner(s) in the past year.
- In Natsal-3 dataset, 84 different combinations identified taking account partnership order, e.g.:
 - 'currently casual' -> 'cohabiting' -> 'currently casual'
 - 'cohabiting' -> 'currently casual' -> 'currently casual'
- 34 different combinations if partnership order ignored, e.g.:
 - 2 'currently casual' & 1 'cohabiting'
 - 1 'ex-steady', 1 'currently casual', 1 'now steady'
- In Natsal-3, 15 combinations account for 97% of all men & 98% of all women

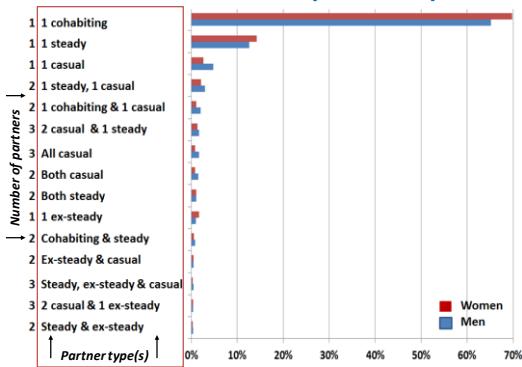
Ranked distribution of 15 partnership histories



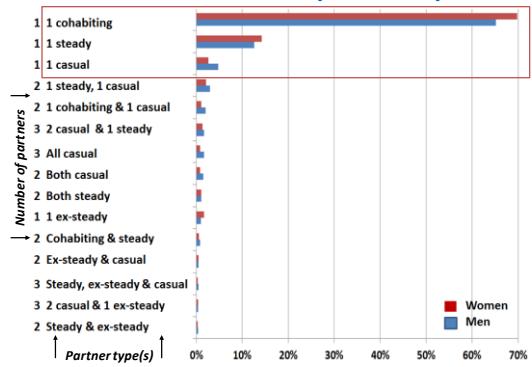
Ranked distribution of 15 partnership histories



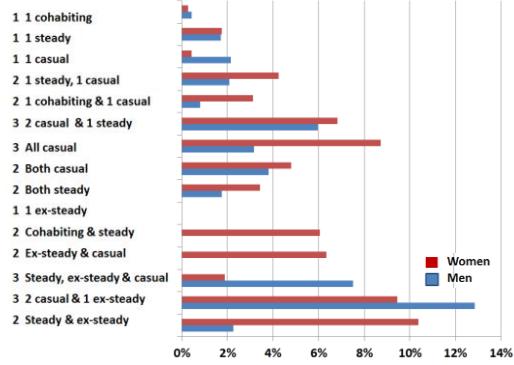
Ranked distribution of 15 partnership histories



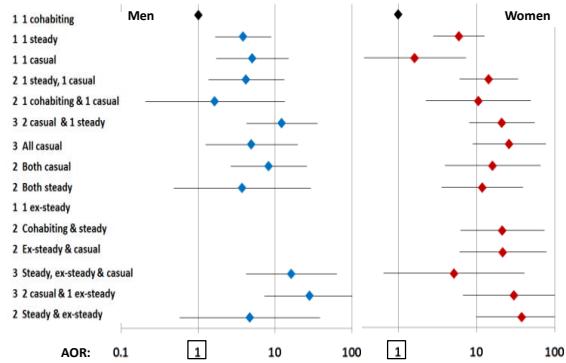
Ranked distribution of 15 partnership histories



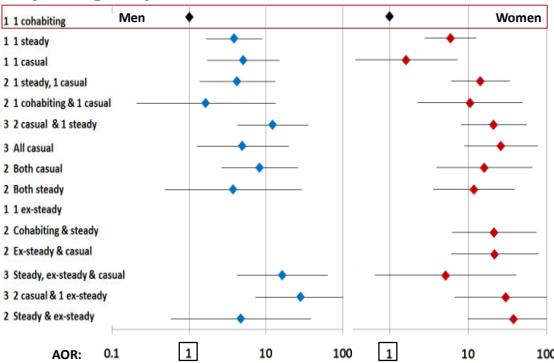
Reported STI diagnosis/es by partnership history



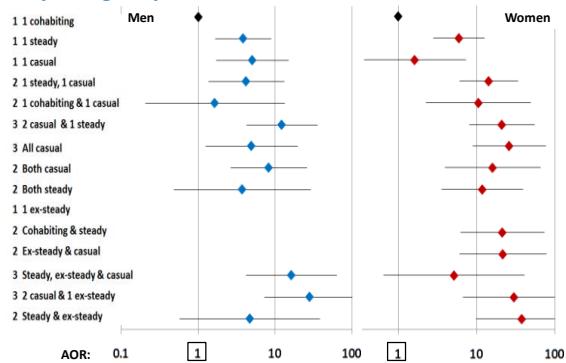
ORs for reporting STI diagnosis/es by Px history adjusting for partner numbers



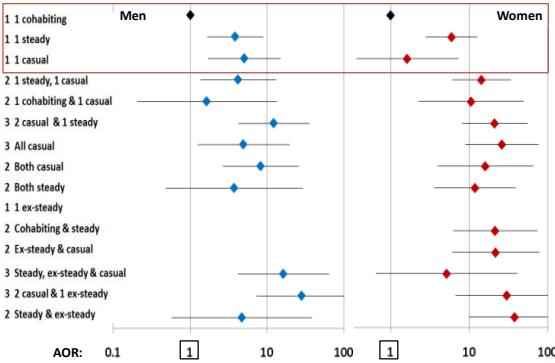
ORs for reporting STI diagnosis/es by Px history adjusting for partner numbers



ORs for reporting STI diagnosis/es by Px history adjusting for partner numbers



ORs for reporting STI diagnosis/es by Px history adjusting for partner numbers



Conclusions & implications

- Using data from just 2 questions:
 - Partnership duration
 - Perceived likelihood of sex again
- Enabled 4 distinct types of sexual partnership to be identified in, and quantified for, the British population.
- This typology enabled differences in individuals' STI risk to be shown, over and above the number of partners reported (despite the limited statistical power).
- This typology is a valuable first step in defining partnership type, that isn't data intensive requiring responses to 2 questions both of which are relatively easy to ask and to answer.

Conclusions & implications



- Further research should investigate the extent to which the typology & thresholds apply in different settings.
- Qualitative research should ascertain the extent to which the typology and thresholds map on to both professional and lay understanding of sexual partnership type.
- We hope our partnership typology will contribute to improving understanding of what constitutes different types of sexual partner:
 - Strengthening the epidemiological evidence-base
 - Maximising individual and public health benefit.

Thank you



Participants

Interviewers

Research team

Funders

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With additional funding from:



For further info visit: www.natsal.ac.uk or email: c.mercer@ucl.ac.uk