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# Measuring sexual function in community surveys: Development of a conceptual framework

# Abstract

*Among the* many psychometric measures of sexual (dys)function, none is entirely suited to use in community surveys. Faced with the need to include a brief and non-intrusive measure of sexual function to a general population survey, we developed a new measure. We present findings from qualitative research with men and women in the community designed to inform the conceptual framework for this measure. We conducted 32 semi-structured interviews with individuals recruited from a general practice, an HIV/AIDS charity and a sexual problems clinic. From their accounts we identified 31 potential criteria of a functional sex life. Using evidence from our qualitative data and the existing literature, and applying a set of decision rules, the list was reduced to 13 (eight for those not in a relationship) and a further eight criteria were added to enable individuals to self-rate their level of function and indicate the severity of difficulties. These criteria constitute a conceptual framework that is grounded in participant perceptions; is relevant to all regardless of sexual experience or orientation; provides opportunity to state the degree of associated distress; and incorporates relational, psychological and physiological aspects. It provides the conceptual basis for a concise and acceptable measure of sexual function.

# Introduction

Asking questions about sexual function in community surveys is challenging. This is partly because the parameters set by the research context are demanding. They include the need to minimise respondent burden; to ensure acceptability (Dunn, Jordan, Croft, & Assendelft, 2002); and to ensure relevance to diverse sections of the population. Where sexual function is measured within a larger questionnaire survey covering other aspects of health, brevity is vital; space often permits only one question per difficulty (Hayes & Dennerstein, 2005). Measures of sensitive behaviours have potential to seem intrusive and even offensive (Loewnthal, 2001), particularly where they may be unexpected, as in a general health survey. The challenge is to achieve a balance between accuracy and acceptability. Community-based measures should also have public health utility, providing useful information on the likely burden of ill health and an indication of how many and who might require professional help. As far as possible, they should avoid including those with transient difficulties and those whose sexual difficulties represent an adaptive response to their particular situation.

The survey team of the [text omitted for blinding] sought a measure of sexual function that covered the key domains and could be completed by all, regardless of gender, sexual orientation, recent sexual experience and relationship status. It needed to be brief (less than 20 items), acceptable, have public health utility and ideally, be informed by the perceptions and experiences of men and women themselves.

We reviewed 54 psychometric measures but did not find one that met our specific needs [ref omitted for blinding]. For example, of three validated measures with male and female versions, two were too long (the GRISS (Rust & Golombok, (1985)) and the DISF-SR (Derogatis, 1997)),

one was relevant only to couples in heterosexual relationships (the GRISS), and one omitted key domains and asked about function only over the past week (the ASEX) (Mcgahuey et al., 2000)). An inferior but tolerable option was to use a different measure for men and women. Among the extensively validated female measures, the FSFI (Rosen et al., 2000) is fairly brief (19 items) but does not measure the degree of personal unease related to symptoms. Among the extensively validated male measures, the IIEF (Rosen et al., 1997) is sufficiently brief (11 items) but is focused on erectile function, may be considered intrusive by a general population sample (e.g. 'how often were your erections hard enough for penetration?') is unsuitable for gay men, and does not ask about the degree of personal unease related to symptoms. In general, many measures are unsuited to community surveys because they have been designed as end points in clinical trials and so tend to focus on biomedical aspects of sexual dysfunction (Corona, Jannini & Maggi, 2006), often to the neglect of relational and subjective aspects of the sexual experience. Finally, few of the existing validated measures have followed US Food and Drug Administration (FDA) guidelines about involving patients in their development (Dennerstein, 2010).

Having not found a suitable measure, we embarked on a programme of development work to produce a tailor-made measure from first principles. A crucial first step was to identify the criteria that should be included within the construct of sexual function. An overriding concern was to ensure that the conceptual framework for the measure would reflect both biomedical and psychosocial perspectives, and would take account of the meaning and significance of sexual function for men and women themselves. In this paper we describe the research that generated the conceptual framework upon which the measure was designed. Elsewhere we describe the psychometric development and validation of the subsequent measure (manuscript under submission).

# Methods

We carried out qualitative research aimed at exploring the meaning of sexual function in the context of the every day lives of men and women. A literature review guided selection of discussion points for interviews and eventual decisions about inclusion or exclusion of elements in the conceptual framework.

## Sampling strategy

Maximum variation sampling was used to include a wide range of sexual function experience. This was achieved by purposefully recruiting three groups of participants:

1) Those who self-identified as having sexual difficulties (consecutive patients attending a National Health Service (NHS) sexual problems clinic in London; n= 6;);

2) Those with conditions associated with sexual difficulties (individuals with diabetes and depression selected randomly from the diabetes patient list and depression patient list of a General Practitioner (GP) clinic in London and invited to participate by letter (n=13); and individuals with HIV, selected via snowballing techniques from an HIV charity in a regional town (n=3));

3) A community group of consecutive attendees at the same GP surgery, recruited from the

waiting room by the first author (n=10).

The first group comprised those with experience of sexual difficulties for which they had sought help; the second group comprised individuals who, because of underlying health problems (diabetes, depression and HIV), might be expected to be experiencing some problems but had not necessarily sought help for them or self-identified as having difficulties (sub-clinical); the third group represented a proxy to a general population sample, with some individuals experiencing difficulties and others not. Non-English speakers and those under the age of 18 were excluded from the sample. Fieldwork was brought to an end when subsequent interviews began to yield little in the way of new information (saturation point).

### Data collection

Interviews were framed by a topic guide that sought to facilitate disclosure of personal experiences. Open-ended questions probed the range of criteria used by participants in assessing their sex lives and what they saw as problematic and non-problematic for themselves (see box one). Detailed probing encouraged participants to describe and explain the criteria they considered important. For those who described any sexual concern or problem (n=25), further discussion sought to explore the impact of that problem on their lives.

### Box 1. Interview Topic Guide (excerpt)

|How would you describe a good-enough/satisfactory/ideal sexual |relationship? |What about a good-enough/satisfactory/ideal sexual act/sexual activity? |How would you describe an unsatisfactory/unacceptable/not OK sexual |relationship? |What about unsatisfactory sex/sexual activity?

Interviews were undertaken by [first author] (30 interviews) and [second author] (2 interviews), and lasted between 45 minutes and two hours. Interviews were recorded (with permission) and transcribed verbatim. Participants signed an informed consent form prior to interview.

Use of the term 'sexual function' was avoided during interviews so as to make no assumptions of its meaning for participants. Instead we offered several plain-language terms (satisfactory/OK for you/ideal/good-enough) and asked participants to think in terms of what was realistic rather than ideal.

## Analysis

Interview transcripts were read and checked as part of the familiarisation process. They were then read again and catalogued according to broad themes (such as orgasm, satisfaction and frequency) and entered into an Excel spreadsheet which served as a data retrieval tool.

As described previously (Mitchell, 2010; Mitchell, 2011), Close examination of the narrative provided by each individual enabled participants to be categorised according to their experience of sexual difficulties (see Table One). Individuals who described no significant frustration or difficulty were categorised as 'functional'; those who expressed minor frustrations and/or difficulties but no significant concern about these experiences were categorised as 'dissatisfied';

and those who described significant problem(s), some level of distress and had also either sought or considered clinical help were categorised as 'problematic'.

Once the data had been mapped, the analysis moved to an interpretative phase, drawing on principles of Grounded Theory (Strauss, 1987; Charmaz, 2006). This is an analytical approach particularly suited to generating dense theoretical accounts grounded in data (Green & Thorogood, 2009). We read the transcripts once more, undertaking line-by-line analysis (or open coding) to identify potential criteria of functional sex; we then used axial coding to explore dimensions of these criteria and relationships between them (see Strauss, 1987). For example, we identified dimensions of the criterion of compatibility as: sexual role/identity, preference for sexual activities, and motive for sex. Throughout, we sought data (quotes/text) that would both confirm and challenge our emerging list of criteria. It was not possible to double code the transcripts but reliability was enhanced via discussion between authors, both of whom are experienced qualitative researchers.

**Table 1.** *Characteristics of the Interviewees* (n=32) (reproduced from Mitchell, 2010 and Mitchell, 2011)

Characteristic	Functional	Dissatisfied	Problematic
Total No. in group	7	9	16
No. of men/women	2 / 5	3 / 6	10 / 6
Mean age (range)	38.7 (23 - 62)	52.1 (31 - 78)	52.8 (33 - 70)
Recruitment group			
Community	4	4	2
GP Diabetes/Depression	3	3	7
list	-	2	1
HIV charity	-	-	6
Sexual Problems clinic			
Partnership status			
Single	2	5	5
Married/co-habiting	4	4	9
Non-cohabiting partner	1	-	2
Sexual Orientation			
Heterosexual	7	5	15
Lesbian	-	1	-
Gay	-	2	1
Bisexual	-	1	-

#### Literature review

Prior to and during fieldwork we undertook a comprehensive review of the literature, including a review of measures of sexual dysfunction. We searched key databases - Pubmed; BIDS; Psychinfo, Medline, IBSS and Psych lit – as well as reviewing the reference lists of key articles. We used a range of search terms related to the concept of sexual dysfunction: sexual function/dysfunction, sexual satisfaction/dissatisfaction, sexual function disturbance(s), sexual adjustment. We used the 'OR' operator to include specific terms within this concept (e.g.premature ejaculation and dysparuenia), as well as the AND operator to combine the central concept with terms related to measurement (classif\*, measure\*, model, psychometric), and with terms related to epidemiology and aetiology (aetiology, prevalence, epidemiol\*).

#### Ethical Approval

#### [text omitted for blinding]

#### Building the conceptual framework

A conceptual framework outlines a preferred approach to a problem. In our case the purpose of the framework was to describe the phenomenon we were setting out to measure (i.e. sexual function).

We based our framework on the World Health Organisation (WHO) definition of sexual dysfunction: "The various ways in which an individual is unable to participate in a sexual relationship as he or she would wish. Sexual response is a psychosomatic process and both psychological and somatic processes are usually involved." (World Health Organisation, 1992; pg 191). Given that we aimed to develop a population metric rather than clinical measure, we used the term 'sexual function', defining it as the converse of this WHO definition – the capability of an individual to participate in a sexual relationship as he or she would wish.

The development of the framework was guided by our psychosocial perspective and by our inductive approach (deriving criteria from participant accounts). Our review of the literature also urged the adoption of a number of key precepts. These included i) the need to avoid equating vaginal intercourse and sex (Sandfort & de Keizer, 2001; Boyle, 1993); ii) to view subjective experience and physiological signs as equally valid (Bancroft, Loftus & Long, 2003; Sugrue & Whipple, 2001), and iii) to regard the sexual relationship as integral to sexual function (Conaglen, 2001; Tiefer, Hall & Travis, 2002).

#### Decision rules to guide the inclusion and exclusion of criteria

From the outset of the qualitative analysis, it was clear that we would identify more criteria from the data than would be possible to include in the final conceptual framework. To help decide which criteria to keep we set up three decision rules:

- 1) If two criteria overlap, exclude the criteria for which the evidence is weakest
- 2) Exclude any criterion that interview respondents regarded as desirable rather than essential.
- 3) Exclude any criteria that are associated with sexual function, rather than part of the construct itself.

With regard to the third exclusion criteria we defined associated factors as any criteria that could be construed as antecedent to, or an outcome of, a functioning sex life or criteria that were "a degree or so removed from explicit sexual behaviour" (Derogatis, 1997; pg 293); in other words, criteria that represented the context of a sex life (whether personal, relational or physical), or criteria that might be viewed as aetiological agents. The decision was complicated by the fact that the same criterion may be considered part of the construct by some, and an associated factor by others. Whether a criterion belongs within or outside depends on the underlying concept of sexual function. The logic is somewhat circular; the conceptual framework is essentially determined by the criteria incorporated within it, yet the choice of criterion is determined by the underlying

concept of sexual function.

The decision to exclude or include each criteria was guided by our qualitative data analysis, an examination of the existing literature, and the application of logic.

# **Results and Discussion**

Through analysis of participant accounts we identified 31 criteria of functional sex. By grouping together conceptually similar criteria, we identified three main aspects of sexual function: psycho-physiological; relational; functional sexual self (individual sexuality and ability to have positive sexual experiences); and self-rating/severity. This latter group of criteria measured the severity of problematic sexual experiences, as well as the quality of an overall sex life. We describe each group of criteria in turn, summarising our evidence to support the inclusion or exclusion of criteria within that aspect.

#### The Psycho-physiological aspect

We examined the qualitative data to see whether aspects of sex associated with established diagnostic criteria (desire, arousal, orgasm and lack of pain/discomfort) were important to participants. We identified several further psycho-physiological criteria that were also considered important by participants. The evidence and decision for each criterion is summarised in table two.

Criteria	Findings from qualitative	Evidence from	Decision
	study	literature	ĺ
Desire	Desire viewed as	Lack of interest is	Item on desire
	important, not only for	the most common female	included based
	intercourse but for	difficulty (Mercer et	on strong
	maintaining intimacy and	al, 2003; Laumann,	evidence from
	closeness.	Paik, & Rosen, 1999)	qualitative
	Desire plays important	but is also common in	study and
	role within relationship	men.	literature.
	Experiencing a period of	Clinical patients	
	reduced desire is common	often present with	
	Most participants expected	loss of desire in	
	and accepted that desire	conjunction with	
	would diminish in certain	another problem	
	circumstances, e.g. being	(Bancroft, 2009).	
	single, experiencing	Most existing measures	
	work-related stress,	include desire as an	
	feeling depressed.	item.	
	Loss of desire that turned		
	into avoidance of sexual		
	activity was considered		
	highly problematic. It was		
	construed as a form of		
	denial or ignoring the		
	problem (F50-54)(		
-	Arousal viewed as	The DSM IV TR	Strong evidence
	important. Difficulty	(American Psychiatric	to include
Lubricatio	becoming aroused viewed as		specific items
n,	a profound problem	classifies arousal as	on lubrication

Erection	(M60-64).	erectile disorder for	and erectile
	Arousal said to contribute	1	difficulties.
	to greater enjoyment and	lubrication-swelling	
	as well as conveying to a	response for women.	Based on
	partner that they are	Subjective assessment	qualitative
	sexually attractive and	of arousal not	study, item on
	wanted.	currently included in	subjective
	Participants mentioned	the DSM, though	arousal/excitem
	many subjective signs of	frequently asked in	ent included
	arousal including feeling	measures of sexual	
	excited, losing	dysfunction, for	 
	inhibition, tingling and	example:	1 1
	quickened heart rate.		
	Among women, lubrication	  the GRISS( (Rust &	
	(feeling wet (F60-64);	Golombok, 1985)	
	damp in the vagina	the BISF-W (Taylor,	
	(F70-74)) regarded as the	Rosen, &	
		•	
1	primary sign of arousal, though many other signs	Leiblum,1994)).	
	mentioned.	1	
	1	1	
	Absence of lubrication	1	
	remedy and because it was	1	
	-		
	<pre> not considered so salient,  its absence did not</pre>	1	
	necessarily signify	1	
	failure to become aroused.	1	
i	Vaginal dryness could	İ	i i
	become a problem if		
	externally applied		
	lubricant was not used or		
	failed to work, leading to		
	dry and painful sex.		
	For men, an erection (a		
	springing to life		
	(M50-54)), appeared to be		
	the indication of arousal		
	that mattered most. Many		
	men, though not all,		
	equated an erection with		
	arousal.		
	Where penetrative		
	intercourse was regarded		
	as the only 'proper' way		
	of having sex, erectile		
	failure precluded sex or		
	at least made it very,		
	very difficult (M60-64).		
	Men with erectile	1	
	difficulties said they	1	
	experienced feelings of	1	
	inadequacy, failure and  loss of self-esteem. It	1	
	was difficult for them to	1	
	convince their partner	1	
I	Convince chert barchet	1	1

1			
	that they were finding sex		
	pleasureable.		
	Partners are likely to		
	interpret erectile failure		
	as a lack of attraction		
	towards themselves.		
Orgasm:	Some participants (women	Inability to reach	Strong evidence
Ability to	more than men) held the	orgasm is the second	to support
reach,	view orgasm helped to	most frequently	inclusion of
Timing,	complete sex but was more	reported female	items on
Quality	a bonus than a necessity.	problem (Meston, Hull,	difficulty
		Levin & Sipski, 2004);	reaching orgasm
ĺ	Others viewed it as		and early
Ì	essential to satisfaction:	Premature ejaculation	orgasm.
Ì	The definition of a good	is the most common	
Ì	satisfactory sexual	problem affecting men	Item on quality
Ì	experience [is] that both	(Barnes & Eardley,	not included
	of you would mutually	2007).	because:
i	enjoy it equally that	Orgasmic disorder and	It overlaps
i	both of you would	premature ejaculation	with item on
	therefore experience	are classified as	enjoyment; and
i	orgasms [] (M55-59).	dysfunctions in the	insufficient
	An orgasm was seen as	DSM-IV TR (American	evidence from
	spanning a whole gradient	Psychiatric	qualitative
	of different sexual	Association, 2000);	study to
	experiences (F45-49) and		suggest that it
	could vary in quality.	include items on	was essential.
I I	The male orgasm was	premature ejaculation	
	considered fairly easy to	and difficulty	
	achieve. So if a man had	reaching orgasm.	
		reaching orgasm.	
	difficulty reaching		
	orgasm, his female partner		
	might interpret his		
	difficulty either as her		
	failure to provide		
	sufficient stimulation, or		
	as an indication that he		
	was not sexually attracted		
	to her.		
	The female orgasm was		
	regarded by men as more		
	exciting ("like Everest		
	compared to a molehill"		
	M70-74) but more elusive		
	(like looking for a needle		
	in a haystack; M55-59).		
	There was a common view		
	among heterosexual		
	participants that an		
	orgasm completed sex or		
	rounded it off (F40-44)		
	and thus a		
	sooner-than-desired orgasm		
	was problematic.		
Pain and	•	Dyspareunia is defined	Strong evidence
discomfort	be at odds with a good	as genital pain	from

1			
	enough sex life. Most	associated with sexual	-
	participants felt it would		study and
	·	1 . 1	literature to
	distressing (M60-64) to	Association, 2000).	support
	experience a level of pain		
	that precluded sex or	reasonably common	item on pain.
	prevented enjoyment.	(Mercer et al, 2003).	
	Participants felt that		
	pain might also signal a	Pain is included as an	
	deeper underlying physical		
	problem in need of	measures. For example:	
	attention.		
	Three participants	the GRISS (Golombok &	
	described pain during	Rust, 1985)	
	intercourse and all had	the SFQ (Quirk,	
	found it problematic. A	Heiman, Rosen, Laan,	
	woman in her forties with vulvodynia described how	Smith & Boolell, 2002)	
	constant pain had	the DICE W (Terrier	
	dominated her life leading	the BISF-W (Taylor,	
	directly to depression,	1994))	
	unemployment and	1994) )	
	ultimately, the break-up		
	of her relationship.		
  Enjoyment	Around a third of	Sexual dissatisfaction	Items on
Novelty	participants spontaneously		enjoyment and
-	mentioned enjoyment,	associated with	overall
on	novelty, excitement,	physical dysfunction	satisfaction
	-	(Öberg, Fugl-Meyer, &	included,
i	terms when asked to	Fugl-Meyer, 2004;	supported by
İ	describe ideal or	Dunn, Croft, &	literature and
İ	functional sex.	Hackett, 2000), but it	particularly by
İ	In long-term	is still possible to	qualitative
Ì	relationships, maintaining	report satisfaction	data.
	excitement was often	with one's sexual	We excluded
	regarded as an important	relationship at the	novelty because
	challenge.	same time as reporting	the qualitative
	For several participants	sexual difficulties	data suggested
	·	(Read, King, & Watson,	
	a key concern was that	1997).	desirable
	they had stopped enjoying	Subjective pleasure is	· · ·
	sex.	particularly important	essential.
	Participants used the term		
	'excite' or 'excitement'	Loftus, & Long, 2003).	
	variously to describe: a		
		Lack of enjoyment	
	excited; F42), the	often cited a problem	
	experience of orgasm (crescendo of sexual	by female attendees at	
	1	sexual problem clinics (Warner, 1987)	
	as a feeling of attraction	1	
	(they find you sexually	enjoyment/satisfaction	
	exciting; M55).	is not currently	
	The term `satisfaction'	included in DSM-IV TR	
	was used in a range of	(American Psychiatric	
	ways: either	Association, 2000),	
1	1		ı I

1			
	interchangeably with	although several	
	orgasm; to describe a	measures include it as	
	specific encounter; or to	an item.	
	talk about sex life		i i
İ	overall.		İ İ
	Lack of satisfaction was		· · · · · · · · · · · · · · · · · · ·
	described in various ways:		
	feeling empty (F30-34);		
1	not getting what you		
	wanted (F35-39); not		
	feeling content and		
	complete (F45-49).		
Anxiety	Several respondents	Link between anxiety	Anxiety
	described finding it	and poor sexual	included mainly
	difficult to relax and let	function is well	on strength of
	go. This hampered their	established (Purdon &	qualitative
	ability to receive	Holdaway, 2006; Rosen	evidence.
	pleasure and thus	& Althof, 2008).	
1	precluded good enough sex.		
1		regarded as a sexual	
	   Appreciation and action of the second second second second second second second second second second second s	5	
	Anxiety viewed both as a	dysfunction in DSM-IV	
	cause and outcome of other		
1	difficulties. One man	Psychiatric	
	described how anxiety	Association, 2000).	
	about his ability to	It is often included	
	perform sexually was the	in measures of sexual	
	source of his	dysfunction, for	İ
	difficulties. He recalled	example:	i i
i	how concentrating too hard	-	· · · · · · · · · · · · · · · · · · ·
1	on making sex work (this	Golombok, 1985),	
1	must work, this has got to		
1	happen) led to anxiety		 
		Trapnell, 2005).	
1	rather than enjoyment		
	(M30-34).		
	For other participants,		
	anxiety arose from (and		
	subsequently reinforced)		
	another problem. For one		
	man in his sixties, the		
	anxiety associated with		İ
	his erectile difficulties		
I	eventually became the core		· · · · · · · · · · · · · · · · · · ·
	problem: M60-65: [The		
	anxiety is more		
1	distressing] because I		
1			
	think this is the cause of		
	it. I could feel myself		
	becoming nervous. When I		
	was feeling anxious I knew		
	wouldn't be able to [get		
	an erection]. Once I got		
	to that state I knew that		ĺ
	that was it.		
Frequency:	Frequency of sex viewed as	Lack of frequency is	There is some
	an indicator of the health		evidence to
Actual and		dysfunction but is	support
1.100 dair and			~~rr~

	Regular sex viewed as	important to	inclusion of
Relative	important in maintaining	satisfaction (Smith et	frequency but
to desired	emotional connection and	al., 2011).	logically, it
level	keeping passion alive	Frequency can be	is more
	(M55-59)	affected by factors	appropriately
	Sex less than once a month	such as duration of	conceptualised
	viewed as problematic; an	the relationship,	as an outcome
	indication that a	fertility intentions	or correlate of
	relationship was going	and contraception	a functional
	humdrum very fast	(Schneidewind-Skibbe,	sex life
	(F30-34).	Hayes, Koochaki,	
	Particularly problematic	Meyer, & Dennerstein,	
	was an unexplained	2008).	
	decrease in frequency.	Items on frequency of	
	Some participants were	intercourse are often	
	concerned about the level	included in measures	
	of frequency relative to	of sexual dysfunction,	
	what was usual and desired	e.g.:	
	within a particular	the BSFQ (Reynolds et	
	relationship. Others were	al., 1988).	
	concerned about actual		
	frequency per se.		

#### The Relational Aspect

Unlike most health behaviours, sex is essentially dyadic in nature. Relationship factors – contingent on the sexual partner as well as the interaction between partners – are therefore seen by many as fundamental to the aetiology and experience of sexual difficulties (Dennerstein, Lehert, Burger, & Dudley, 1999; King, Holt, & Nazareth, 2007; among others). The current classification systems (DSM-IV TR (American Psychiatric Association, 2000) and ICD-10 (WHO, 1992) do not adequately address the relationship dimension [reference omitted for blinding]. Our qualitative data, supported by the literature, provided strong evidence for the inclusion of a relational dimension. Table three summarises the evidence and decision for each criterion identified in our qualitative study.

Criteria	Findings from qualitative	Evidence from	Decision
	data	literature	
Compatibilit	Three dimensions of	Among women,	Compatibility in
y:	compatibility were	partner	sexual
In motive	identified.	incompatibility is	preferences
In roles	Compatibility in motive	associated with	included based
In	implied wanting sex for the	distress and most	mainly on
preferences	same reasons. Participants	of the sexual	qualitative
	perceived a gender	dysfunctions	evidence.
	disparity with women more	(Witting et al.,	
	often motivated by intimacy	2008)	Compatibility in
	and men more often	Compatibility in	motive for sex,
	motivated by physical	preferences or	and
	pleasure.	libido types is	compatibility in
	Compatibility in	often the focus of	sexual
	roles/identities	self-help guides	roles/identities
	particularly concerned gay	(see Pertot, 2007,	both excluded.

1	1		
	participants because roles	among others)	Logically
	within their partnerships	Compatibility is	speaking, they
	were often more fluid and	included in	predispose or
	required negotiation.	several measures:	precipitate
	Incompatibility might arise		
	if one partner was openly	Golombok, 1985);	within a couple
	gay and the other was not.	the SSS-W (Meston	(i.e., they are
		& Trapnell,	associated
	Compatibility in sexual	2005)).	factors).
	preferences implied that		
	suggestions from a sexual		There is also
	partner would not come as a		some overlap
	profound shock (M60-64)(.		between
	Participants talked of	Ì	compatibility in
İ	disparities occurring where	İ	roles/identities
	one partner desired	İ	and
	activities that the other	Ì	compatibility in
	found repellent, leading		sexual
	the latter to feel under	1	preferences to
	pressure and the former to		the extent that
	feel frustrated.		agreement about
	Incompatibility in	1	what to do
	preferences arose where one	1	sexually
	partner had a sexual	1	requires prior
	difficulty or condition	1	agreement about
	such as HIV and felt they	1	individual roles
	-	1	and identities.
	could no longer give their	1	and identities.
	partner what he/she wanted.		
	It could also arise through		
	simple inability to		
	communicate preferences.		
Emotional	An emotional connection was	-	Based primarily
connection	implied in a range of	particular,	on our
and		relationship	qualitative
chemistry	life: an emotional	criteria such as	data, an item on
		emotional	emotional
	mentally in tune (F35-39).	connection are	connection was
		linked to sexual	included.
	An emotional connection was	satisfaction	
	about feeling a real sort	(Bancroft, Loftus	The term
	of bond or love for that	& Long, 2003).	`chemistry' was
	person[enabling you to]	Loss of `spark'	excluded
	almost let yourself go with	within a	because, in our
	the way you express	relationship is a	qualitative
	yourself physically	common reason for	data, it was
	(F35-39).	seeing a	generally viewed
	Lack of connection viewed	relationship	as desirable
	as detrimental to sexual	counsellor (see	rather than
	satisfaction. One woman	Perel, 2007 among	necessary.
	described feeling empty and	-	The notion of
	used when her partner	Several existing	chemistry might
	failed to make eye contact	measures include	also overlap
	during sex or had his own	items on	with the concept
1	agenda (F30-35).	connection and	of arousal.
	Within a relationship a	closeness between	aroubar.
	_	partners:	 
I	1 TOPP OF CONTRECCTOR TUPTIED	Far circi B.	I

1		the DODT (D	1
		the FSFI (Rosen et	
	being withdrawn (F50-54), a		
	loss of rapport, or a	the SFQ (Quirk et	
	relationship that is not	al., 2002).	
	going to go anywhere		
	(F20-24).		
	Participants frequently		
	used the term 'chemistry'.		
	It was described as an		
	animal spark (M50-54) that often occurred suddenly and		
	inexplicably.		
  Balance in	Equivalence in level of	  Balance in levels	Item on equal
levels of	sexual desire between	of desire	desire included
desire,	partners commonly viewed as		based on strong
reciprocity	-	important (Davies,	
l	relationship but difficult	Katz, & Jackson,	qualitative data
	to achieve: one always	1999; Levine,	as well as the
	wants it more than the	2003).	literature.
	other (F45-49).	It has even been	Reciprocity
	Imbalance recognised as a	suggested that	excluded.
	source of arguments or	suggested that	Conceptually,
	difficulties in the	ought to be	reciprocity and
	relationship (F25-29).	re-conceptualised	equal desire
	Participants who wanted sex	—	overlap but
i i	less than their partner	relational problem	
i i	-	(Zilbergeld &	stronger
	to have sex, and/or guilt:	Ellison, 1980;	evidence for
	I sometimes feel [], a bit	1	equal desire
	guilty afterwards[] I	Despite this,	both from our
	think that he thinks I'm	discrepancy in	data and from
	still pushing him away	desire is rarely	the literature
Ì	(M50-54). There was also a	included in	
i	fear that a partner would	measures	
i	decide to go outside [the	(exceptions	
Ì	[relationship] (M55-59).	include the GRISS	
Ì	Participants who wanted sex	(Rust & Golombok,	
	more than their partner	1985).	
	found it difficult not to		
	interpret a partner's low		İ
	desire as rejection: I		
	would find it hard to feel		
	the confidence that they		
	$  {\tt were \ sexually \ interested \ in}$		
	me (F30-34).		
	Reciprocity - willingness		
	to give and receive		
	(pleasure) in roughly equal		
	measure - was important for		
	a good enough sexual		
	encounter. In the longer		
	term, reciprocity - each		
	partner working at the		
	sexual relationship, taking		
	turns to initiate - was		
	considered important.		

Difficulties Nine participants described Co-morbidityItem includedexperienced  relationships in which they between partnersbased onby a partner perceived that theiris common; in uppartner had the primaryto a third ofdifficulty.patients withCommon themes in thesesexual problems	data
by a partner perceived that theiris common; in upqualitative  partner had the primary to a third of and evidence  difficulty. patients with from clinica	e
partner had the primary  to a third of  and evidence  difficulty.  patients with  from clinical	e
difficulty.   patients with   from clinica	
	a⊥   
Common chemes in chese   Sexual problems   incerature.	
accounts included feelings the partner also	i
of rejection, loss of has a sexual	
confidence, frustration and dysfunction	
a gradual erosion of (Gregoire, 1999).	
desire.	
In particular, two women  interviews usually	
described having partners  ask about	
who, due to sexual   difficulties	
difficulties, had declined experienced by a	
to have sex for many years. partner	
Both women described the This is rarely	
detrimental impact on their included in	
self-esteem, sexual measures	
identity, their     (exceptions)	
relationship and beyond.  include the SFQ	
(Quirk et al.,	
Trust   A group of criteria were   Relationship   All three it	cems
Warmth  identified related to  adjustment - an  excluded on	the
Feeling  psychological security (a  absence of  basis that t	hey
wanted  comfort zone) within a  relationship  are associat	ed
relationship:   difficulties - is   with sexual	
Trust;  an important  function rat	her
warmth;   contributor to   than part of	f the
feeling wanted.   sexual function   construct (	i.e.
These criteria were (King et al, 2007; they contrib	oute
particularly important to  Bancroft et al,  to function	and
those within long-term (2003) (may also dev	zelop
relationships and those from a	
prioritizing the functional	
interpersonal.   sexual	
relationship	<u>)</u> .
In addition	
there is over	erlap
between feel	ling
wanted and	
balance in	
desire betwee	en
partners	
(mutually	i
desiring eac	ch
other).	ĺ

### The self-rating and severity aspect

Given that standard diagnoses correlate only moderately with individual assessment of their situation, particularly for women (King, Holt, & Nazareth, 2007), and given the need to differentiate transitory difficulties from longer term dysfunction (Mitchell & Graham, 2008), we

wanted to ensure that a degree of self-assessment was included in the measure.

From the literature and from our qualitative data, we identified eight potential indicators of severity: duration since onset of symptoms; the frequency with which symptoms occur; level of distress caused by the symptoms; the extent to which an individual perceives that a problem exists; the overall level of distress; whether or not the person has sought professional help; the overall level of satisfaction; and avoidance of sexual activity. The final two were discussed above as potential criteria of the psycho-physiological aspect but we opted to include them here (see table two). We have previously investigated the relative merits and limitations of these indicators [ref omitted for blinding], concluding that there is sufficient evidence to warrant the inclusion of these eight. Later psychometric testing may lead to the exclusion of some from the final measure.

#### The Functional Sexual-self Aspect

From our qualitative data, we identified a number of criteria that could be grouped under the dimension, 'functional sexual self'. These criteria related to an individual's sexuality and capacity to enjoy positive sexual experiences. A majority view of sex emerged as an act carrying potential risk of rejection and thus creating feelings of vulnerability. Confidence and comfort therefore emerged as important to good-enough sex. We identified five characteristics of an ideal sexual self related to confidence and comfort: positive body image; ability to give and receive pleasure; positive sexual identity; confidence to communicate needs; and positive motivations to have sex (motivations that are not damaging to the individual or their partner). These can be construed as attributes, attitudes and abilities brought to the sexual encounter, although they might also develop as an outcome of positive sexual experiences.

A second group of criteria relating to 'functional sexual self' clustered around the concept of context, both physical and personal. Key aspects of the personal context were tiredness and stress. Physical context included privacy; a criteria particularly pertinent to those with children living at home.

These criteria are well established in the literature, but are usually examined in terms of their association with sexual dysfunction (see for instance, Sanchez & Kiefer, 2007; Nazareth, Boynton, & King, 2003; Rosen & Althof, 2008; Laumann, Paik, & Rosen, 1999).

In keeping with the established literature, we excluded all these criteria, assigning them as associated factors (or correlates) rather than part of the construct itself.

#### The conceptual framework

The selection process gave rise to a conceptual framework as depicted in table four.

```
Conceptual Framework of Sexual FunctionPsycho-physiologicalRelational AspectAspectR1 Compatibility in sexualP1 Desire for sexP2 Lubrication (F) / ErectileR2 Emotional connectionfunction (M)
```

```
P3 Sexual arousal/excitement
                                 R4 Partner does not have sexual
P4 Orgasm-ability to reach
                                 difficulties
P5 Orgasm-not too early
P6 Absence of discomfort/pain
P7 Enjoyment
                                 Overall Self-rating aspect
P8 Lack of anxiety
                                 |SR4 Overall satisfaction
Severity IF difficulty present:
                                 SR5 Not avoiding sex
                                 SR6 Perception that no problem
SR1 Duration since onset of
                                 exists
difficulty
                                 SR7 Overall lack of
SR2 Frequency with which symptoms distress/worry
                                 SR8 Not seeking professional help
occur
SR3 Distress caused by
symptoms
Criteria excluded from the Framework
Where:
AF - criterion is associated with sexual function, rather than
belonging to the construct
OV - criterion overlaps with another criterion
PH - criterion does not represent public health burden (respondents
viewed it as desirable rather than essential)
Functional sexual self
                                 Relational
Happy Body feeling
                                 Trust
AF
                                 AF
Able to give and receive pleasure warmth
AF
                                 AF
Positive sexual identity
                                 feeling wanted
AF
                                 AF/OV
Confidence to communicate needs Compatibility in motive
                                 AF/OV
AF
Positive motives to have sex
                                 for sex
AF
                                 Compatibility in sexual
                                 AF/OV
Psycho-physiological
                                 roles/identities
Novelty
                                 Reciprocity
PH
                                 lov
Quality of orgasmic experience
                                 Chemistry
OV/PH
                                 PH/OV
Actual frequency relative to
desired AF
                                 Contextual
                                 Stress and tiredness
Actual frequency
AF
                                 AF
                                 Privacy
                                 AF
```

The measure derived from this conceptual framework will be computer-based and will route participants to sections relevant to their experience. Those who have not been in a relationship for the whole of the past year, for example, will be routed past the relationship questions. This means that the measure can be completed by anyone, regardless of their recent sexual experience.

#### Methodological limitations

The methodological limitations of our study relate to qualitative approaches more broadly. Qualitative methods are suited to exploring phenomena from the perspectives of others. Semistructured interviews provide rich and detailed descriptions but because the data generated are cumbersome, the sample size is generally small. Sampling is often theoretical rather than probabilistic and so the aim is to generate ideas and concepts that are transferable to other contexts, rather than results that are statistically generalisable to a wider population.

# Conclusion

Our framework is novel in that it is grounded in participant perceptions; provides opportunity for individuals to state the degree to which they see their sex life as problematic; and incorporates relational, psychological and physiological aspects.

The framework provides a solid conceptual basis for a brief and acceptable measure of sexual function, specifically designed for use in community surveys. Just as we identified shortcomings in existing measures, so practitioners with different objectives will see drawbacks to ours. For example, sex therapists might point out that it contains nothing about intimacy in a relationship; experts on premature ejaculation and orgasmic dysfunction (Waldinger & Schweitzer, 2006a & b) could consider the number of items on orgasm/ejaculation inadequate for precise measurement; practitioners who advocate on behalf of rare and specific conditions such as persistent sexual arousal disorder (Leiblum & Nathan, 2001) might point out that these have been omitted; and various individuals (notably The Working Group for a New View of Women's Sexual Problems, 2001) might criticise our attempt to put forward a normative list of difficulties. Whilst some will feel that we have strayed too far from the current classification; others will feel that we have not strayed far enough. In response, we would highlight the fact that most limitations of the measure stem directly from our design imperatives of brevity, user acceptability, relevance to all population sub-groups and public health utility. Furthermore, given the general lack of agreement concerning the conceptualisation and measurement of sexual dysfunction (Balon, 2008; Mitchell & Graham, 2008), it is simply not possible to meet all expectations. In contrast to many existing measures, we based our decisions on empirical evidence collected specifically for the purpose, thus giving our measure a strong claim to validity. Ultimately the quality and utility of this conceptual framework and subsequent measure will be established by future community-based survey research.

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