

ORIGINAL ARTICLE

A core approach to practice-based evidence: A brief history of the origins and applications of the CORE-OM and CORE System

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Abstract

This article reviews the development of the CORE-OM and CORE System from 1995 to 2005 in the context of the need to measure, monitor, and manage the delivery of counselling and the psychological therapies in service of providing best quality care for clients. The origins and philosophy of these tools are summarised and practical aspects of how to use them in routine service settings are set out, including an easy to use look-up table of differing ways of presenting CORE-OM scores and their associated meaning. The wider family of CORE outcome measures is briefly outlined to show the relationship between the various versions and how each is designed for a specific purpose. These outcome tools are set within the broader context of the CORE System. In turn, the CORE-OM and CORE System are placed within the paradigm of practice-based evidence and examples are provided of how these tools have been applied in routine as well as more traditional evaluative settings.

The aim of the present article is two-fold. The first aim is to provide a background to the origins and development of the CORE-OM and its role as part of the broader-based CORE System during the period 1995 to 2005. The second aim is to consider the applications of both the CORE-OM and CORE System within the context of the developing paradigm of practice-based evidence up to 2005.

Keywords: CORE-OM, CORE System, outcomes, practice-based evidence

Origins of CORE and practice-based evidence

The origins of CORE lie in a slightly obscure but seminal chapter by Irene Waskow (1975) entitled Selection of a core battery, which arose out a 1970 American Psychological Association scientific conference on psychotherapy change measures (Waskow & Parloff, 1975). Waskow proposed the idea that there was merit in devising a core outcome battery that could be adopted by most researchers and yet at the same time recognising that they could also supplement this 'core' component with additional measures which were of special interest to particular groups of researchers. Although this proposal attempted to balance practitioner-driven selection of measures with some commonality of measurement across studies, the idea was not taken on board for a variety of reasons (for details, see Barkham et al., 1998). However, by the mid-1990s, the issue of outcomes was increasingly coming to the fore and a further conference on selecting a core outcome battery was held in the US which resulted in a substantial text (see Strupp, Horowitz & Lambert, 1997). These initiatives provided the momentum in the UK for devising a core outcome measure that could be adopted widely by both practitioners and researchers (Barkham et al., 1998).

While a vision of a core outcome struck a chord with many people, it also invoked considerable hostility, much of it quite understandable, as some sensed the potential for restricting choice and standardising procedures. Two particular strands of thought related to (a) people wanting to use their own measure, and (b) a degree of ambivalence towards the existing outcome measures that were available. Practitioners tended to use either 'home grown' instruments or rely on measures imported from the US which tended to focus predominantly on symptoms. In addition, such measures were proprietary instruments which carried purchase costs and a bar on adapting them for specific needs in the UK. Hence, there was a need for a short and 'free' outcome measure that could be used widely in the UK. In 1994, the Mental Health Foundation (MHF) funded a conference on Psychotherapy Research at Balliol College Oxford (see Aveline & Shapiro, 1995). One specific outcome of this event was a Psychotherapy Research Initiative funded by the MHF which set out to support research in three areas, one of which was the development of a core outcome battery. This

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programme of research ultimately yielded a client-completed measure, namely the Clinical Outcomes in Routine Evaluation-Outcome Measure (CORE-OM).

With the development of the CORE-OM in place, it became apparent that such an outcome measure needed to be complemented by additional contextual information about the presentation of the client from the perspective of the practitioner. There had been a strong interest in service evaluation within the UK chapter of the Society for Psychotherapy Research (SPR). Mindful of this, a group of SPR(UK) members based in Northern England met on a regular basis and developed, over a period of some time, practitionercompleted forms which captured the context within which counselling and the psychological therapies occurred. This work was funded by the Counselling in Primary Care Trust and Leeds Mental Health Teaching NHS Trust. The complementarity of the client- and practitioner-completed forms, completed at pre- and post-therapy, progressed what might otherwise have been just a series of forms into a coherent system, termed the CORE System, for profiling the delivery of counselling and the psychological therapies. This 'system' then increasingly became a plausible means for capturing common service data that could be combined across services to yield a level of evidence that would have relevance to practitioners and researchers nationally.

Development and philosophy of CORE

The CORE-OM was designed as a non-proprietary measure of psychological distress. Crucially, it was informed by feedback from practitioners as to what they saw as being important to include in a core outcome measure (for details of this procedure, see Mellor-Clark, Barkham, Connell & Evans, 1999). The resulting domains which were adopted were: subjective well-being, problems/symptoms, functioning, and risk to self or others (Figure 1). The purpose was to provide a free, user friendly, and pantheoretical outcome measure which was sensitive to both low intensity and high intensity ranges of distress, which tapped positive attributes as well as pathological symptoms, and could be used in both research and practice settings (Barkham et al., 1998).

Since its development, the CORE-OM has been verified in a general population sample (Connell et al., submitted), large samples in primary care (Evans, Connell, Barkham, Marshall & Mellor-Clark, 2003; Mellor-Clark et al., 2001), in secondary care settings (Barkham et al., 2001), and both primary and secondary settings (Barkham, Gilbert, Connell, Marshall & Twigg, 2005), and with older adults (Barkham, Culverwell, Spindler, Twigg & Connell, 2005). Table I presents a guide to the publications on the development and psychometric properties of the CORE-OM and CORE System.

The CORE-OM as a tool in counselling and psychotherapy

Within each domain of the CORE-OM (except subjective well—being) there are clusters of items. The problem domain comprises four clusters (Depression, Anxiety, Physical, and Trauma) and the functioning domain comprises three clusters (General, Social, and Close). The risk domain comprises Risk to Self and Risk to Others. Evidence to date suggests that the internal consistency is good at both the domain and cluster level except for Physical problems and for Risk to Others. However, there is also evidence of strong interdependence between the domains with the exception of risk.

Invariably the measure is most commonly used to derive a single score. All published articles have consistently reported the mean item score for all items and also the mean item score for all the non-risk items, thereby providing practitioners with the options of including or excluding risk items. In addition, domain and, more recently, cluster scores have also been reported. Hence, the structure of the CORE-OM provides a range of options to practitioners in terms of which level of presentation they wish to use for their particular purpose.

Scoring the CORE-OM

When the CORE-OM was developed, the aim was for practitioners to calculate a mean item score – that is, to sum the total items marked and divide by 34 (if there were no missing items). This would yield a mean item total ranging from 0 to 4. However over the years feedback from practitioners has raised two issues. First, many practitioners simply add the items to generate a total score as this is easier than dividing by 34 (which is not the easiest of numbers to use). Second, some practitioners have found the 0-4 range for the score difficult to use because of the fractional nature of the resulting score (i.e., 1.83). It tends to be easier to assign meaning to whole numbers rather than to fractions of numbers. To take account of this feedback, we have begun to move towards a procedure of multiplying the mean item score by 10 and calling this a clinical score. None of this alters any of the psychometric properties of the measure (although the standard deviation also needs to be multiplied by 10). Procedures for scoring the CORE-OM are set out in Box 1 and a look-up table of total scores and equivalent clinical scores is presented in Box 2. However, the look-up table will only work if there are no missing items. When clients miss out items, the total needs to be divided by the number of items completed.

Relationship of the CORE-OM with other measures

A programme of work has been undertaken with the aim of establishing the relationship between the CORE-OM and other standard outcome measures.

Ou Ro Ew	NICAL TOOMES IN UTINE ALUATION UTCOME MEASURE	Site ID letters only Client ID Therapist ID Sub codes D D M M J Date form g		numbers onl	Ag	Stage S Scre R Refe A Ass F First P Pre- D Duri L Last X Folk		t by Sessi (unsperapy y session	on cified)	Stage Episode
		IMP	ORTANT - PLEAS	SE READ T	'HIS F	IRST		-		
	Please	read each st Th	ments about how atement and think en tick the box wh rk pen (not pencil	how often nich is close	you fe	It that whis.	way las	t week		
	Over the last w	reek			Nor at all	Occession.	Sometimes	Offen S	Wost or	OFFICE USE
1	I have felt terribly	alone and isolat	ed		0	D 1	□ 2	3	4	F
2	I have felt tense, a	anxious or nervo	us		□ °	1	□ 2	Вз	4	□Р
3	I have felt I have s	someone to turn	to for support when	needed	4	Пз	_ 2		0	F
4	I have felt O.K. ab	out myself			4	Вз	□ 2	□ ¹	0	□w
5	I have felt totally k	acking in energy	and enthusiasm		0	1	_ 2	3	4	P
6	I have been physi	cally violent to o	thers		□ ∘	□ 1	□ 2	Вз	□ 4	□R
7	I have felt able to	cope when thing	s go wrong		4	Вз	2	1	0	F
8	I have been troub	led by aches, pa	ins or other physical	problems	<u> </u>	٦ı	□ 2	3	4	□Р
9	I have thought of	hurting myself			0	1	_ 2	3	4	□ R
10	Talking to people	has felt too muc	h for me		<u> </u>	١٦	_ 2	☐ 3	□ 4	F
11	Tension and anxie	ty have prevent	ed me doing importa	int things	_ ·	01	2	3	4	□Р
12	I have been happy	y with the things	I have done		4	Пз	□ 2	1	0	□F
13	I have been distur	bed by unwante	d thoughts and feeling	ngs	0	01	□ 2	3	4	ПР
14	I have felt like cryi	ing			O۵	П 1	_ 2	Вз	4	□w
			Please t	urn over						

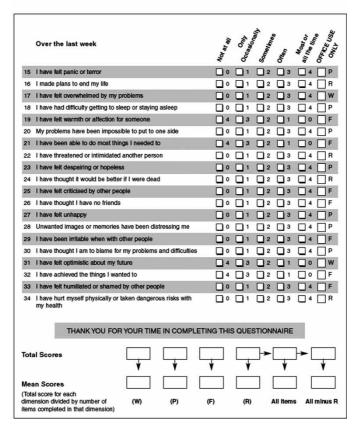


Figure 1. The CORE-OM.

This work has also helped us determine the meaning of CORE-OM scores. Hence, we have asked the question: How 'core' is the CORE-OM when compared with other outcome measures such as the Beck Depression Inventory (BDI) and the Hamilton Rating Scale for Depression (see Cahill et al., in press) as well

Table I. Studies reporting on the development and psychometric properties of the CORE measures.

Study	Measure development	Response/ completion rates	Internal Reliability	Factor Structure	Convergent validity/ Concurrent validity	Difference between clinical and non-clinical samples	Difference between population groups	Sensitivity to Change	Clinical and Reliable Change
CORE-OM									
Barkham et al., 1998	√								
Barkham et al., 2001	✓	\checkmark	✓		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Barkham, Gilbert, Connell, Marshall & Twigg 2005		\checkmark	✓	\checkmark		\checkmark			
Barkham Culverwell, Spindler, Twigg & Connell, 2005	\checkmark	\checkmark	✓				✓		
Barkham, Mullin, Leach, Stiles & Lucock, submitted		\checkmark	✓		\checkmark				
Cahill et al., in press		\checkmark	\checkmark		\checkmark			\checkmark	
Connell & Barkham, submitted		\checkmark	\checkmark			\checkmark	\checkmark	\checkmark	\checkmark
Connell et al., submitted		\checkmark	\checkmark		\checkmark	\checkmark	\checkmark		
Evans et al., 2000	✓	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Evans et al., 2002	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Leach et al., 2005		\checkmark		✓	\checkmark				
Leach et al., in press		\checkmark			\checkmark				
Lyne, Barrett, Evans & Barkham, in press		\checkmark	✓	\checkmark					
Mellor-Clark & Barkham, 2000	\checkmark	\checkmark	✓		\checkmark	\checkmark	\checkmark	\checkmark	✓
Mellor-Clark & Barkham, 2006	\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Mellor-Clark et al., 1999	✓	\checkmark							
Ming Wai, 2001	\checkmark	\checkmark	\checkmark				\checkmark		
GP-CORE									
Sinclair, Barkham, Evans, Connell & Audin, 2005	✓	\checkmark	✓	✓	\checkmark	✓	\checkmark		

Box 1. Methods for scoring the CORE-OM

To obtain the mean item score

Stage 1: Add the total score

Stage 2: Divide by the number of client completed items (i.e., 34 if none are missing)

Stage 3: Result is a mean item score ranging from 0 to 4

Example: A total score of 58 divided by 34 = 1.71

To obtain the clinical score

Method A: Using the mean score

Stage 1: Calculate the mean score (as above)

Stage 2: Multiply the mean score by 10

Stage 3: Result is a clinical score ranging from 0 to 40

Example: A total score of 58 divided by 34 = 1.71 multiplied by 10 = 17.1

Method B: Using the look up tables

Stage 1: Add the total score

Stage 2: Refer to look-up table (Box 2) to convert to clinical score

Example: A total score of 58 = 17.1

Method C: Easy estimate method

Stage 1: Add the total score

Stage 2: Divide the total score by 10

Stage 3: Multiply this score by 3

 $\underline{\text{Example}}$: A total score of 58 divided by 10 = 5.8 and multiplied by 3 = 17.4. The look up table (Box 2) shows that the actual clinical score is 17.1. Hence, the estimate of 17.4 is fairly close to the true score when working at a practical

level and wanting to have an immediate sense of the score.

as the Health of the Nation Outcome Scales (see Leach et al., 2005). Moreover, look-up transformation tables have been established for converting BDI scores into CORE-OM scores and vice versa (Leach et al., in press). In effect, we can now 'rewire' archived efficacy trials that used the BDI with transformed CORE-OM scores so that these studies have more immediate relevance to practitioners using the CORE-OM in routine practice (Barkham et al., 2005). In this way, there is a possibility of developing a 'core' language in which efficacy and practice-based studies can be directly compared.

The meaning of CORE-OM scores

We have used a range of information from the above programme of work including distribution of scores in several very large data sets, comparisons with BDI scores, and feedback from practitioners, to arrive at suggested guidelines on the meaning of CORE-OM scores (see Box 2).

The severity bands set out in Box 2 derive from recent work in which the cut-off between the clinical and non-clinical populations has been established as a clinical score of 10, equivalent to a mean item score of 1.0 (Connell et al., submitted). This cut-off score is slightly lower than previously reported and is discussed in more detail later. However, by adopting 10 as the cut-off, we have identified two bands within the non-clinical range called 'healthy' and 'low' level of distress. People may score on a number of items at any particular time but still remain 'healthy. Similarly, people may score in the 'low' range which might be a result of raised pressures or particular circumstances but the score is still within the range of the general population. We have identified the score of 10 as the lower boundary of the 'mild' level, 15 for the moderate level, and 20 for the moderate-to-severe level. A score of 25 or over marks the severe level.

Evaluating change

Having provided guidance on the meaning of CORE-OM scores, it is important to establish the extent of change required in order for someone to be considered as having made meaningful improvement. Following the procedures identified by Neil Jacobson and colleagues (for details, see Jacobson & Truax, 1991), two components are central to determining meaningful change: reliable change, and clinically significant change.

Reliable change index

The reliable change index (RCI) reflects the extent of change in a measure that might be expected by chance alone or measurement error. Hence, when looking at pre-post change, practitioners need to know whether the change achieved exceeds this given level. To date, we have used an RCI of .48 for the CORE-OM. Rounding this to .50 would yield a clinical score of 5. Hence, to be confident of a client making reliable change, we would be looking for changes greater than 5 in the clinical score (or .5 using the mean item scoring method). Interestingly, all the 'clinical' severity levels with the exception of 'severe' have a range of 5 points. So, if a person scores at the upper end of, for example, moderate (i.e., 19) and they meet the criterion for reliable change (i.e., improve by at least 5 points), then they will also move from the 'moderate' to at least the

Box 2.	Look-up	table of	CORE-OM so	ores and	d severit	y levels						
	Non-cli	nical range	е	Mild.	Moderate	. Moderat	Clinical e-to-severe	ran	ge	Se	evere	
Total score	Clinical Score	Simple score	Severity Level	Total score	Clinical Score	Simple score	Severity Level		Total score	Clinical Score	Simple score	Severity Level
1	0.3	30010	Level	30010		cut-off I		┨┝	85	25.0	30010	Level
2	0.6	0		34	10.0				86	25.3	25	
3	0.9			35	10.3	10			87	25.6	25	
4	1.2			36	10.6	10			88	25.9		
5 6	1.5 1.8	1		37 38	10.9 11.2			-	89 90	26.2 26.5	26	
7	2.1			39	11.5	11		-	91	26.8	20	
8	2.4			40	11.8	1			92	27.1		
9	2.6	2	Healthy	41	12.1		Mild level		93	27.4	66 27 99 22 55 28 88 11 44 29 77 00 33 66 99 22 55 81 81 44 66 99 22 55 83 88 11	
10	2.9		Пеанну	42	12.4	12			94	27.6		
11	3.2	_		43	12.6			-	95	27.9		
12	3.5 3.8	3		44 45	12.9 13.2			-	96 97	28.2 28.5		
14	4.1			46	13.5	13		l ⊨	98	28.8		Severe level
15	4.4	4		47	13.8				99	29.1		
16	4.7			48	14.1				100	29.4		
17	5.0			49	14.4	14			101	29.7		
18	5.3	5		50	14.7			l ⊨	102	30.0		
19 20	5.6 5.9			51 52	15.0 15.3			-	103 104	30.3 30.6		
21	6.2			53	15.6	15		-	105	30.6		
22	6.5	6		54	15.9				106	31.2		
23	6.8			55	16.2				107	31.5		
24	7.1			56	16.5	16			108	31.8		
25	7.4	7		57	16.8				109	32.1		
26	7.6			58	17.1			-	110	32.4		
27	7.9 8.2		Low level	59 60	17.4 17.6	17	level	-	111 112	32.6 32.9		
29	8.5	8	10101	61	17.9				113	33.2		
30	8.8			62	18.2				114	33.5		
31	9.1			63	18.5	18			115	33.8		
32	9.4	9		64	18.8				116	34.1		
33	9.7			65	19.1	4.0		-	117	34.4	34	
	C:		_	66	19.4	19		-	118	34.7		
	Guidai	nce note	S	67 68	19.7 20.0			┨┝	119 120	35.0 35.3		
1. Th	ne origin	al mean	item	69	20.3			l ⊢	121	35.6	35	
	ore can			70	20.6	20			122	35.9		
	lculated			71	20.9				123	36.2		
	inical sco			72	21.2			l L	124	36.5	36	
	ne 'simpl			73	21.5	21		-	125	36.8		
	e first in			74 75	21.8 22.1		Moderate-	l ⊢	126 127	37. 1 37.4		
	e clinica		is a	76	22.4		to-severe	-	128	37.6	37	
	ugh guid		o indov	77	22.6	22	level	-	129	37.9		
	ne reliab 5 points		e index cut-off	78	22.9				130	38.2		
	vel is a c			79	23.2				131	38.5	38	
	or .5 a			80	23.5	23		-	132	38.8		
	spective		ng the	81 82	23.8 24.1			-	133 134	39.1 39.4	39	
	aditional			83	24.1	24		-	135	39.4	JJ	
m	ethod).			84	24.7				136	40.0	40	

'mild' level. In other words, apart from scores in the severe level, achieving reliable change (i.e., improvement) is reflected in a change (i.e., lowering) of severity level.

Clinical cut-offs

A body of work on the CORE-OM measure has identified certain clinical cut-off scores which

are indicative of membership of non-clinical and clinical populations. The originally reported mean item cut-off scores using a combined sample of convenience and students are 1.19 for men and 1.29 for women (Evans et al., 2002). Transposing these to clinical scores (11.9 and 12.9) — and rounding up for ease of practical use— yields scores of 12 and 13 respectively. As indicated above, more recent work has established a cut-off score

of 10 between the clinical and general population and that this applies both to men and women (Connell et al., submitted). The score of 10 is somewhat easier to work with in busy routine settings and saves separate calculations for male and female clients. Hence we are slowly moving towards adopting this score as the cut-off level because of its relative ease of use. The lower cut-off score of 10 means that more clients are included in the clinical sample for a service but it also requires, by definition, a lower score than previously for a client to meet clinical improvement. When all clients referred to a service are considered, the difference arising from selecting the original or newer cut-off score is relatively small but differences will occur when the cut-off score itself is used to select clients (see Mullin, Barkham, Mothersole, Bewick & Kinder, 2006).

The family of CORE measures

Outcome measures are designed following a key principle - namely that they are fit for purpose and we have set out in Figure 2 a map of the current derivatives of the CORE-OM (solid boxes) and have also included planned versions for additional specific purposes (broken boxes). For assessment and outcome, the full CORE-OM is recommended. It is also worth noting that the full version can be used without the risk items (i.e., CORE-NR) and all publications include information on this version.

For repeated administration (i.e., session-by-session), two parallel short forms, each comprising differing but overlapping combinations of 18 items, have also been developed which have been shown to have high levels of concurrent validity with the BDI-II (Cahill et al., in press). These versions were particularly designed for research studies where the objectives required administration of the alternate A and B short forms in order to reduce memory effects. Again, for ease of use in everyday routine settings, it is likely that a single, simpler and even shorter measure, more akin to a thermometer, might be appropriate for monitoring progress in routine practice. As moves increase towards tracking sessionby session change, then the original measure needs to be adapted for these specific purposes. No single version of a measure can be expected to be fit for all purposes.

The third portion of the map covers the non-clinical population and there is a version for use in the general population, named GP-CORE, comprising 14 items derived from the CORE-OM (Sinclair, Barkham, Evans, Connell & Audin, 2005).

Finally, versions are in development for particular groups of people. For example, a version for young people (named YP-CORE) is well advanced and there is a programme of work in progress focusing on developing translations of the CORE-OM for ethnic groups and European languages.

The CORE system

Notwithstanding the major component of measuring outcomes, the CORE-OM is but one part of the broader CORE System. The CORE System was developed by a

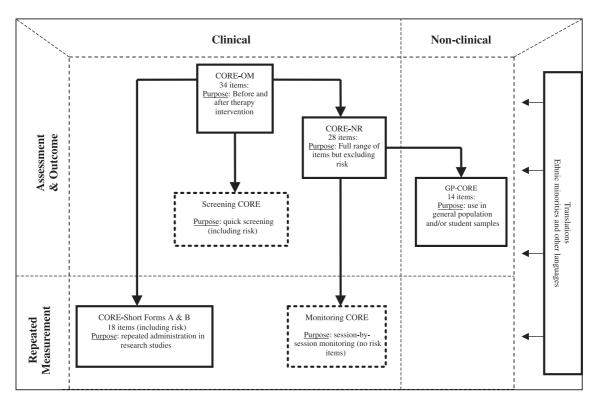


Figure 2. Map of the CORE family of measures.

multidisciplinary group of practitioners and researchers and the content of the system was informed by extensive collaboration with practitioners, managers, and service commissioners (Mellor-Clark, Barkham, Connell & Evans, 1999). The system comprises three tools, sharing the onus of evaluation data provision equally between clients completing the CORE-OM preand post-therapy, and practitioners completing the CORE Assessment Form at pre-therapy and End of Therapy Form at post-therapy.

To complement the CORE-OM and provide client contextual detail, the double-sided CORE Therapy Assessment Form (see Figure 3) captures a 'core' set of contextual information that aids the quality of both client assessment and overall service development (Mellor-Clark et al., 1999). To enhance client assessment, the form collects important contextual information including client support, previous/concurrent attendance for psychological therapy and medication, as well as a categorisation system to record presenting difficulties, their impact on day-to-day functioning, and any associated risk. To aid the development of service quality, the form collects data on critical assessment audit items that profile the accessibility and appropriateness of service provision. These include client demographics, waiting times, and the suitability of referral.

Finally, for client discharge, the CORE End of Therapy Form (see Figure 4) complements the other components by capturing a 'core' set of treatment descriptors that aid the interpretation of CORE-OM scores which in turn helps to contextualize therapy outcomes and inform service development. The form collects profile information that includes therapy length, type of intervention, modality, and frequency. To enhance the development of service quality, the form collects data on critical discharge audit items that profile the effectiveness and efficiency of service provision. These include problem and risk review, therapy benefits, session attendance rates, and therapy ending (i.e., planned or unplanned).

As described in the following paper in this special edition of *CPR* (Mellor-Clark, Curtis Jenkins, Evans, Mothersole & McInnes, 2006), full CORE System data as outlined above can be managed by CORE-PC which is a bespoke standardized software package designed to help services analyse and report on their data as and when required. Alternatively, services can obviously adopt their own in-house approaches to analyses and reporting.

Practice based evidence

With the development of a robust tool kit as outlined above, the focus of work has moved towards the activity of building a practice based evidence for counselling and the psychological therapies. Since the 1980s, the paradigm of evidence based practice has been growing in dominance and, while this process has undoubtedly contributed much in providing clear evidence of what works and for whom, there is

always unease where one paradigm is dominant. Accordingly, in recent years, a complementary paradigm has emerged, namely practice-based evidence (Barkham & Mellor-Clark, 2000; Margison et al., 2000).

A core principle of a practice-based approach is that evidence must indeed be "practice-based" – that is, it must be shown that the procedures work and are effective in improving the quality of patient care in real-life practice settings. Moreover, practice is the core driver of the process – driven by practitioners' and managers' desires to provide a quality service to their clients. At this level, the issue of ownership of the research activity by practitioners becomes crucial as they strive to innovate and generate solutions to local service delivery issues.

Two key components are central to the practicebased paradigm: effectiveness and practice (Barkham & Mellor-Clark, 2003). The effectiveness component addresses the generalisability of results across particular services and settings. For example, the ability of a local service to profile itself against comparative national information across key delivery indicators provides invaluable information in terms of providing a fuller understanding of how a service is performing. The practice component addresses the analysis of results within a service or setting whereby a service looks at its own data to see if there are differences in relation to particular groupings of clients, practitioners, presenting problems, or other foci. Importantly, the philosophy of practice-based evidence is aimed at enhancing the quality of the intervention or care provided by the practitioner, rather than as an explicit tool for service managers to plan their service.

However, it is important not to view these two paradigms as competitive. Our view is that they are complementary in that the knowledge base for counselling and the psychological therapies is considerably stronger if each paradigm informs the other (see Barkham & Margison, in press; Barkham & Mellor-Clark, 2003).

Scoping review of applications

Since its launch, we believe the CORE-OM has become one of the most widely used outcome measures in the psychological therapies in the UK. There are a range of potential explanations for this, but the fact that the System (or any of its component parts) can be freely photocopied (but not altered in any way) without breaching its copyright status, and the range of practical support resources (e.g., free advice, implementation training, software, and benchmarking etc.) available to users have no doubt all played a significant part.

The clinical governance and clinical effectiveness agendas in the NHS emphasise the need for routine service evaluation (Department of Health, 2004). In order to carry forward these agendas, services require accessible, affordable, valid, and reliable measures. Also, practitioners are more likely to engage in routine

CLINICAL	Site ID			Age
OUTCOMES in ROUTINE	Client ID	letters numb	ers	Male Female
EVALUATION			SC2 numbers SC3 numbers	
THERAPY ASSESSMENT	Sub Codes		Ш Ш	Employment
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Living with other	W1011 M011 I		Other _	
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Please tick as many to Primary GP or oth			m (eg practice nurse, counsell	or)
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	. 		elp with their psychological	problem(s)? Yes No
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Figure 3. The Therapy Assessment Form (TAF).

evaluation if the measures provide clinically meaningful information. Using the same measures across services both allows and promotes benchmarking (Barkham et al., 2001; Mellor-Clark, 2001) and provides practice based evidence to complement evidence from efficacy studies and "a framework

OUTCOMES IN ROUTINE EVALUATION	Site ID Client ID	letters number	3 C4 numbers SC5 numbers	Number of sessions planned
END OF THERAPY FORM v.2	Sub Codes Date therapy	D D M M	Y Y Y Y	Number of sessions attended
	Date therapy completed	D D M M M	¥	Number of sessions unattended
What type of therap	y was undertak	en with the clien	? Please tick as many bo	oxes as appropriate
Psychodynam Psychoanalyti Cognitive Behavioural Cognitive/Beh	ic navioural		Person-centred Integrative Systemic Supportive Art Other (specify belo)w)
What modality of the Individual Group	erapy was unde	rtaken with the cl	ient? Please tick as many Family Marital/Couple	boxes as appropriate
What was the freque More than on Weekly		with the client?	Less than once we Not at a fixed frequ	
		,	herapy? Planned	
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Personality Prob Cognitive/Learni Physical Problen Eating Disorder Addictions Risk Suicide Self Harm Harm to others Legal/Forensic Benefits of Therapy Personal insight/und Expression of feeling Exploration of feeling Coping strategies/tex Access to practical h Other benefits	lems	oved special control of the clien enefit to the clien	vingWelfare ork/Academic ther (specify below) Contextual Factors Motivation Working Alliance Psychological Mindedne ool/planning/decision making stoms toms oo day functioning onal relationships collication? Yes \(\) No \(\) 1? Yes \(\) No \(\)	Improved *** No

Figure 4. The End of Therapy form.

for using local evidence to support practice" (Department of Health, 2004, p. 29). Practice-based evidence can also be used within services to feed data back to practitioners that will inform their practice and inform

clients of their progress (Lucock et al., 2003). Table II summarises studies carried out using the CORE-OM or CORE System. This list is derived from broad stream searches of the literature with particular reference to

Table II. Studies reporting on the use and applications of the CORE measures

	Development of other	Evidence-based practice	Practice-based evidence			
	measures	(i.e., trials)	Routine setting	Bench-marking	Survey	
CORE-OM & CORE-SF						
Ashworth et al., 2005	✓					
Barkham et al., 2001			\checkmark	\checkmark		
Barkham et al., 2005		✓				
Barkham et al., in press			\checkmark			
Baylis & Farquharson, 2005			\checkmark			
Branney & Barkham, in press			\checkmark			
Cavanagh et al., in press			\checkmark			
Cooper et al., 2003		\checkmark				
Davies et al., in press			\checkmark			
Dent-Brown & Wang, 2004	\checkmark					
Ekers & Lovell, 2002			\checkmark			
Evans et al., 2003			\checkmark	\checkmark		
Gardiner et al., 2003			\checkmark			
Gilbert et al., in press			\checkmark	\checkmark		
Greasley & Small, 2005			\checkmark			
Hall & Mullee, 2000			\checkmark			
Hardy et al., 2005			\checkmark			
Howey & Ormrod, 2002			\checkmark			
Leach et al., 2004			\checkmark			
Lovell et al., 2003			\checkmark			
Lucock et al., 2003			✓			
Lutz et al., 2005			✓			
McCloskey, 2001			· ✓			
Mellor-Clark et al., 2001			· ✓			
Mellor-Clark, 2001			· ✓			
Mellor-Clark, 2002			√			
Mellor-Clark, 2003			· √			
Mellor-Clark, 2004			·	✓		
Morris & Isaacson, 2005			✓	•		
Richards et al., 2003		\checkmark	v			
Royal College of Nursing, 2002		v			./	
Shepherd et al., submitted			✓		v	
Stiles et al., 2003			v √			
Stiles et al., in press			v √			
Whewell & Bonanno, 2000			v √			
Winter et al., 2003			v _/			
GP-CORE			v			
Cooke et al., in press			✓			

more service oriented sources. It is not claimed to be comprehensive as there is likely to be work that is currently 'in press' or 'submitted' of which we are unaware. We have not included work that is currently 'in preparation'. Table II shows the majority of the work to be in the area of routine practice which is, in effect, a validation of the initial aims of developing the CORE-OM and CORE System.

Future directions

A huge amount of research and development has been invested in the CORE-OM, its derivatives, and the CORE System and this investment continues in key areas. One of these relates to harnessing the increasing availability of reliable information technology and the internet to develop more robust ways of collecting data and also of feeding back data to services and individual practitioners. Other developments involve looking at the relationship between the CORE System and its components with, for example, the delivery of stepped care in the management of depression. These examples highlight moves towards utilising technology where this helps in supporting the infrastructure and also viewing the CORE System as integral to the planning and delivery of models of care. In this way, we are addressing the perennial problems of (a) collecting data but being unable to have the resources to do anything with it, and (b) seeing outcomes measurement as just an 'add on' to service delivery rather than being central to the planning and delivering of a quality service to clients. Further discussion on these and other issues are outlined in the following paper to this special edition of CPR (Mellor-Clark, Curtis Jenkins, Evans, Mothersole & McInnes, 2006).

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