

Appendix 1. The Multidimensional Matrix for Consultation-Liaison Psychiatry (*mMAX-LP*)

A. Structure

1 Hours of operation	Office hours, 5 days a week	Office hours, 7 days a week	16 hours, 7 days a week	24 hours, 7 days a week
2 Psychosocial disciplines within CLP	Psychiatrists only	Psychiatrists plus 1 other discipline	Limited MDT	Full MDT
3 Psychosocial disciplines outside CLP	A full range of psychosocial disciplines	2 disciplines outside CLP	1 discipline outside CLP	Nil
4 Specialisation of CLP Staff	Generic roles only	Certain age groups only	Certain units or services only	Certain diagnoses or problem types only
5 Clinical governance	Special interests within generic roles	General hospital only	Partly by both, separately	Shared/joint governance
6 Funding source	Mental Health Service only	General hospital only	Partly by both, separately	Shared/joint funding
7 Funding contracts	Mental Health Service only	Local contracts	Regional contracts	National contracts
8 Quality Improvement	Nil	Ad hoc service evaluation	Routine service evaluation	Research
9 Workforce Development	Nil	Undergraduates	Basic Trainees	Advanced trainees

B. Coverage

10 Emergency Department	Community Crisis Team	Community Crisis Team based in ED	Split coverage, CLP/ Crisis Team	Generic within CLP	Separate ED CLP team	Specialist Team within CLP
11 Young people	Nil	Nil	CAMHS (Community)	Generic within CLP	Separate Paediatric CLP Team	Specialist Team within CLP
12 Older people	Nil	MHSOP	Split coverage, CLP/ MHSOP	Generic within CLP	Separate Old Age CLP Team	Specialist Team within CLP
13 Addictions	Nil	Nil	CADS (community)	Generic within CLP	Separate Addictions CLP service	Specialist Team within CLP

C. Relationship with Physical Health services

14 Liaison	Nil	Ad hoc links	A few planned links	Extensive links (most specialties)	Exhaustive links (all specialties)	Plus proactive screening
15 Outpatients	Nil	Nil	Nil	Ad hoc OP appointments	General CLP clinics	Specialist CLP clinics
16 Hospital Staff Training	Nil	Grand Rounds	Presentations or workshops	Nurses teaching	Allied staff teaching	Medical staff teaching

Instructions for completing the *mMAX-LP*

Please note that for **dimensions 1 - 3, 5, 6, 10 - 13**, one option should be chosen that most closely matches the CLP being assessed; while for **dimensions 4, 7 - 9, and 14 - 16**, multiple options may apply

Dimension 1

Hours of operation
This dimension has four positions – the Consultation-Liaison Psychiatry (CLP) service operates in office hours, 5 days a week; the CLP service operates in office hours, 7 days a week; the CLP service operates over extended hours, (16) 7 days a week, and the CLP service is available 24 hours, 7 days a week.

Appendix 1. (continued)

Instructions for completing the mMAX-LP

Dimension 2 Psychosocial disciplines within CLP	This dimension has four positions – the CLP service consists only of psychiatrists; the CLP service has psychiatrists and only one other discipline; the CLP service has a limited multi-disciplinary team (MDT) comprising some but not all of the commonly associated psychosocial disciplines; and the CLP service has a full MDT comprising psychiatrists (and other doctors), nurses, psychologists, social workers, occupational therapists and admin staff.
Dimension 3 Psychosocial disciplines outside CLP	This dimension has four positions – nil; only one psychosocial discipline is available to the general hospital outside of the CLP service; two psychosocial disciplines are available to the general hospital outside of the CLP service; and a full range of psychosocial disciplines (clinical and/or health psychologists, social workers and occupational therapists) is available to the general hospital outside of the CLP service (i.e. embedded within services or units within the hospital). Note that in the matrix the order of these positions is reversed. This is because dimensions 2 and 3 are the inverse of each other – generally the more disciplines included in CLP, the less will be left outside it.
Dimension 4 Specialisation of CLP staff	This dimension has five positions – CLP staff have generic roles working with any and all CLP patients; CLP staff are able to develop 'special interests' within otherwise generic roles; CLP staff work solely with patients with specific diagnoses or problem types; CLP staff work solely with children/young people or adults or older people; and CLP staff work solely with particular units (e.g. ICU) or services (e.g. health of older persons).
Dimension 5 Clinical governance	This dimension has four positions – clinical governance for the CLP service is provided solely by the mental health service; clinical governance is provided solely by the general hospital; clinical governance is provided partly but separately by both the mental health service and the general hospital; and clinical governance is provided jointly (i.e. shared) by both the mental health service and the general hospital.
Dimension 6 Funding source	This dimension has four positions – the CLP service is funded solely by mental health service; the CLP service is funded solely by the general hospital; the CLP service is funded partly but separately by both the mental health service and the general hospital; and the CLP service is funded jointly (i.e. shared) by both the mental health service and the general hospital.
Dimension 7 Funding contracts	This dimension has three positions – local contracts (hospital departments available to residents of the local catchment area); regional contracts (e.g. plastic surgery; regional spinal units – services available on a regional basis); and national contracts (e.g. transplant services; the national burns centre – services available on a national basis).
Dimension 8 Quality improvement initiatives and research.	This dimension has five positions – nil quality improvement initiatives; clinical audits; sporadic service evaluation; routine service evaluation; and research.
Dimension 9 Workforce development	This dimension has four positions – nil; undergraduates (e.g. general medical and nursing students); basic trainees (e.g. rotating general psychiatric registrars and psychology interns); and advanced trainees (e.g. those undertaking vocational training in CLP).
Dimension 10 Coverage of the emergency department (ED)	This dimension has six positions – the ED is covered by the community crisis team from their community base; the community crisis service has a team based in the ED; there is split coverage whereby the CLP service covers new presentations while the community crisis team covers existing community mental health patients; there is generic coverage of ED by staff of the CLP service; there is a completely separate specialist ED consult-liaison team; and there is a specialist ED team integrated within the CLP service.
Dimension 11 Coverage of young people	This dimension has five positions – there is no service for this group of patients; young people are covered by the community child and adolescent mental health service (CAMHS); there is generic coverage of young people by staff of the CLP service; there is a completely separate specialist paediatric consult-liaison service; and there is a specialist paediatric team integrated within the CLP service.

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Dimension 12 Coverage of older people	This dimension has six positions – there is no service for this group of patients; older people are covered by the mental health service for older people (MHSOP) from their base; there is split coverage whereby the CLP service covers the general wards and the MHSOP covers the Health of Older Persons (HOP) Wards; there is generic coverage of older people by staff of the CLP service; there is a completely separate specialist old age consult-liaison service; and there is a specialist old age team integrated within the CLP service.
Dimension 13 Coverage of addictions	This dimension has five positions – there is no service for this group of patients; addiction presentations are covered by the community alcohol and drug service (CADS) by in-reach to the general hospital; there is generic coverage of addiction presentations by staff of the CLP service; there is a completely separate specialist addictions liaison service; and there is a specialist addictions team integrated within the CLP service.
Dimension 14 Liaison with other hospital departments	This dimension has six positions – nil; ad hoc (sporadic) links with other hospital departments; planned links (e.g. attendance at MDT meetings) but limited to a few departments; extensive links covering most departments; exhaustive links covering all departments; and extensive or exhaustive links with hospital departments plus proactive screening for case identification.
Dimension 15 Outpatients	This dimension has four positions – nil; outpatient work occurs only via ad hoc appointments; outpatient work occurs via established CLP clinics for general or mixed CLP patients; and outpatient work occurs via CLP outpatient clinics for specialised groups of CLP patients (e.g. cardiology patients, medically unexplained symptoms, transplant patients, etc.).
Dimension 16 Training for staff of the general hospital	This dimension has seven positions – nil; attendance at hospital grand rounds; participation in orientation for general hospital staff; presentations at grand rounds/departmental meetings or delivery of workshops on specific topics such as capacity; and provision of teaching (for nursing and/or allied health and/or medical staff).