

Trinity College Dublin Coláiste na Tríonóide, Baile Átha Cliath

The University of Dublin

Models of care in Forensic Psychiatry

Royal College of Psychiatrists Faculty of Forensic Psychiatry

Liverpool, 04 March 2020

Professor Harry Kennedy

Executive Clinical Director, National Forensic Mental Health Service, Central Mental Hospital, Dundrum, Dublin, Ireland Clinical Professor of Forensic Psychiatry

Models of Care: definition

- A "Model of Care" broadly defines the way health services are delivered. It outlines best practice care and services
- for a person, population group or patient cohort as they progress through the stages of a condition, injury or event.
- It aims to ensure people get the right care, at the right time, by the right team and in the right place
- Often includes a 'logic model' relating inputs (resources) to 'outputs' (health gains)



Understanding the process to develop a Model of Care An ACI Framework

Model of Care

- 13,000 words
- Plain Language
- To be read by all staff e.g. during induction
- All policies, procedures and guidelines must be compatible
- All parts of the system are inter-dependent
- "If you can't measure it, you can't see it or it doesn't exist" Chris Webster
- Not a brochure for patients or their families
- Not a contract document

National Forensic Mental Health Services Model of Care





Model of Care: why?

Typically prompted by

- architects who need a design brief (who try to improve it!)
- Software engineers (who try to write it!)
- Commissioners (cost efficient & clinically effective)
- Policy makers
- Custom and practice
- Mission drift
- 'Good Ideas' are never enough

Model of Care

- 1. Goals not Principles
- 2. Pathways and processes
- 3. Treatments
- 4. Evaluation and logic models





Principles are usually a collection of platitudes and pieties Competing principles are either not listed or not resolved Goals should be achievable and measurable

2. Processes and Pathways

		TRIAGE
11-	Clinical processes can be shown to	LEAVE
ŲΫ	be universal.	TRANSFER
U		DISCHARGE

Active Management of Length of Stay

Structured professional judgement and governance to ensure clinical decision making transparent and reliable

Legal processes facilitate clinical processes (medical necessity).

Ø

2. Processes and Pathways

Therapeutic uses of security: mapping forensic mental health services by stratifying risk

H. G. Kennedy

The syllabus for higher training in forensic psychiatry requires knowledge of the therapeutic uses of security, although there are no references to this in standard texts. Similarly, the process of mapping a mental health service is an essential first step in planning, audit and needs assessment. All mental health services, not just forensic services, are organised to stratify patients according to the risk they present so that they can be cared for in an environment that is safe but imposes the minimum necessary restrictions and intrusions. Forensic mental health services differ from other mental health services mainly by including subsystems which are at higher levels of security than those necessary in local services. Although they have a general orientation towards risk awareness and risk management, they remain integral parts of the mental health services for the populations they serve. A history of the evolution of secure psychiatric services in the UK is given in the Butler report (Home Office & Department of Health and Social Services, 1975). An international perspective can be found in Bluglass & Bowden (1990). Definitions of secure services often rely on descriptions of services currently available, so that a given level of security is defined, by default, as that which falls between adjacent levels. Attempts are being made to define and validate the characteristics of groups of patients that may require elements of security as part of their care (Cohen & Eastman, 2000), but this is difficult to achieve without relying on current practice for validation in a circular way. Secure settings are found in general and forensic mental health services and in the independent sector. There is a wide variation between services, e.g. in the level of physical security

in medium secure units. Published needs assessments all illustrate a considerable degree of inappropriate placement within the overall system, partly reflecting delays in transfer and partly due to the varied pattern of provision across the country.

Principles

The Butler (Home Office & Department of Health and Social Services, 1975) and Reed (1992) reports set out principles which are widely acknowledged as the basis for secure psychiatric services. More recently, the King's Fund report, London's Mental Health (Johnson et al, 1997), contains much to guide the mapping of mental health services in urban settings. A current approach to mapping any mental health service would emphasise the importance of a whole-system approach, with cooperation between agencies ensuring that service boundaries do not operate as barriers to the movement of individuals across levels of security, according to their needs.

Continuity of responsibility is as important as continuity of care and it ensures the safe transition of individuals between levels of security. Services can best be organised so that multi-disciplinary teams have responsibilities across adjacent levels of security, within a given facility or across services.

Facilities should provide individuals with an environment that is least restrictive, safest, homely and local. Decreasing reliance on distant providers should therefore be a priority for service development. The sharing of information between agencies

Therapeutic security

PHYSICAL

RELATIONAL

QUALITATIVE AND QUANTITATIVE

PROCEDURAL

SPECIALIST MANAGEMENT

Stratified from high to medium to low to community supports

Stratified from acute, sub-acute to medium term and slow-stream / long term

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Harry Kennedy is consultant forensic psychiatrist at the Central Mental Hospital, Dundrum (Dublin 14, Ireland). His research interests include the epidemiology of homicide and suicide as related to deprivation and urbanisation, the organisation of forensic mental health services and the psychopathology of anger.

3. Treatment

Multi-modal treatment to prevent violence(physical, mental, substance misuse, offending behaviours, ADL, education occupation and creativity, family)

Tiered treatments

Quality standards

- 25 hours / patient / per week
- 5 hours of core treatments at higher tiers / patient / per week
- 17.5 to 25 WTE tier 3-4 therapists for 100 patients (Not MDT members)

Logic model – in-puts and outcomes



Four Recoveries

PERSONAL RECOVERY (WARD ATMOSPHERE, SATISFACTION, CO-PRODUCTION) SYMPTOMATIC RECOVERY (PANSS, REMISSION RATES, violence / restrictive practices) FUNCTIONAL RECOVERY (GAF, SOFAS, MCCB neurocognition & social cognition) FORENSIC RECOVERY (LEAVE, TRANSFER, CAPACITY, CONDITIONAL DISCHARGE) **Population KPIs**

sustainable admission and discharge rates over five years (length of stay) admissions / 100,000 / year, discharges / 100 beds / year Violence and restrictive practices / 100 admissions and / 100 beds

1. Goals

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- Rights and recovery as defined in legal standards
- Zero target for violence by patients against patients and others
- Prioritisation of effective treatments over any other activity
- Active management of length of stay
- Population-based levels of service that are sustainable



- (a) sufficient physical security appropriate to the patients;
- (b) high staff : patient ratios; and
- (c) a therapeutic policy that encompasses individual programmes

2. Pathways and Processes

Clinical Processes

- Clinical processes occur along all forensic pathways, including triage, leave, transfer to less secure places, trial leave, conditional discharge and absolute discharge.
- Active management of length of stay through admission panels and further 'gating' panels for decisions regarding milestones of progress.
- Structured professional judgement and judgement-support frameworks for making governance decisions regarding clinical processes.
- Legal processes to facilitate goals through clinical processes, including medical necessity, and dual mandate.

Pathways: Mapping

- Population: 500,000; 5m; 20m;
- Presentations: rates / 100,000 /year
- Human resources: staff to patient ratios; skills mix
- Estate:
- Processes: legal; clinical; triage / admissions panels etc.



The right person in the right place at the right time

• Risk X Seriousness

Stratified Therapeutic Security

- Environmental or physical
- Relational quantitative and qualitative
- Procedural
- Management and governance
- Each element is stratified from high secure and intensive care, to medium secure, to low secure, to community supports (also stratified).
- The elements are also stratified from acute to subacute, and medium term to slow stream or long term.

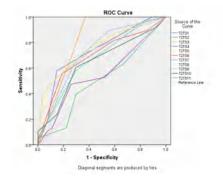
EXACT AGREEMENT BETWEEN ITEMS AND DISPOSALS

	Observed proportion in Agreement (n=316) ^a	95% CI of observed proportion in agreement	Spearman rank correlation coefficient ^b
TS1: serious violence	0.75	0.70 - 0.80	0.803
TS2: serious self harm	0.61	0.56 - 0.67	0.259
TS3: immediacy of violence risk	0.75	0.70 - 0.80	0.879
TS4: immediacy of self harm risk	0.67	0.62 - 0.73	0.236
TS5: specialist forensic need	0.78	0.74 - 0.83	0.908
TS6: absconding risk	0.80	0.76 - 0.85	0.879
TS7: preventing access	0.78	0.74 - 0.83	0.831
TS8: victim sensitivities	0.80	0.76 - 0.85	0.806
TS9: complex risks	0.72	0.67 - 0.77	0.828
TS10: institutional behaviour	0.71	0.66 - 0.76	0.758
TS11: legal procedure	0.92	0.90 - 0.95	0.921

D-1 triage security: item to outcome

	nil v	open v	PICU v
	any adm <u>AUC</u>	PICU AUC	MSU AUC
1.Seriousness of violence	0.915	0.722	0.644
2. Seriousness of self-harm	0.515ns	0.568ns	0.601ns
3. Immediacy of risk of violence	0.961	0.693	0.644
4. Immediacy of risk of suicide/ self harm	0.546ns	0.573ns	0.609ns
5. Specialist forensic need	0.973	0.786	0.695
6. Absconding / eloping	0.930	0.860	0.726
7. Preventing access	0.905	0.825	0.670
8. Victim sensitivity/public confidence	0.806	0.775	0.690
9. Complex risk of violence	0.767	0.762	0.596
10. Institutional behaviour	0.907	0.698	0.599
11. Legal process	0.945	0.927	0.969

Inter-rater reliability k>0.87 for each item Spearman r = 0.959 for total score Cronbach's alpha = 0.949



McInerney et al. International Journal of Mental Health Systems 2013, 7:18 http://www.ljmhs.com/content/7/1/18

INTERNATIONAL JOURNAL OF MENTAL HEALTH SYSTEMS

Open Access

CASE STUDY

Implementing a court diversion and liaison

scheme in a remand prison by systematic screening of new receptions: a 6 year participatory action research study of 20,084 consecutive male remands

Clare McInemey^{1,21}, Mary Davoren^{1,21}, Grainne Flynn^{1,24}, Diane Mullins^{1,21}, Mary Fitzpatrick¹⁰, Martin Caddow¹¹, Fintan Caddow¹¹, Sean Quigley³¹, Fergal Black³¹, Mary G Kennedy^{1,24} and Conor O'Neill^{1,24}

Abstract



Inge Jeandarme^{5,5}, Petra Habets⁵, Harry Kennedy⁵ ^{*}Namdag Gree for Tornie Postare Ger (1997), 1997, Jakon, Jelani ^{*}Namd Forma Mond Habb Series, Cored Mond Highli, Dadras, Irlant.

ABSTRACT

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International Journal of Mental Health Systems

RESEARCH



STRESS-testing clinical activity and outcomes for a combined prison in-reach and court liaison service: a 3-year observational study of 6177 consecutive male remands

Conor O'Nelli^{12**}, Damian Smith¹²*, Martin Caddow¹¹, Fergal Duffy¹¹, Philip Hickey¹¹, Mary Fitzpatrick¹¹, Fintan Caddow¹¹, Tom Cronin^{1*}, Mark Joynt^{1*}, Zetti Azvee¹¹, Bronagh Gallagher^{1*}, Claire Kehoe^{1*}, Catherine Maddock¹¹, Benjamin O'Keeffe^{1*}, Louise Brennan^{1*}, Mary Davoren^{1*}, Bizabeth Owens^{1*}, Ronan Mullaney^{1*}, Laurence Keevans¹⁸, Ronan Maher^{3*} and Harry G. Kennedy^{1,24}

Abstract

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Routledge Taylor & Frances Group

OPEN ACCESS

Patient characteristics related to length of stay in Dutch forensic psychiatric care

Mareike Eckert^a, Sandra H. H. Schel^a, Harry G. Kennedy^{bs} and Berend H. (Erik) Bulten^{ad}

"Division Diagnostics Research and Education, Forensic Psychiatric Hospital Pompefoundation, Nijmegen, The Netherlands, "National Forensic Mental Health Service, Central Mental Hospital, Dundrum, Ireland; "Department of Psychiatry, Trinity College Dublin; Dublin, Ireland; "Behavioural Science Institute (BSI) of Radboud University, Nijmegen, The Netherlands

ABSTRACT

Create an overview of characteristics of patients in long-term forensic psychiatric care (LFPC) with a higher length of stay (LOS) care compared to patients in regular forensic psychiatric care (RFPC) with a shorter LOS. Data were collected from 139 patient records. This study examined whether patients in LFPC differ from patients in RFPC on sociodemographic data, legal data and clinical data and whether those characteristics are able to predict LOS. Patients in LFPC were more often born in a Dutch caribbean country, less often had a substance abuse disorder, were more often emotionally neglected during childhood, had a higher HCR-20 risk item score. a higher executiv meds score a higher HCR-20 risk item score. a higher becaustry negles scores higher HCR-20 risk item score. a higher becaustry negles scores higher HCR-20 risk item score. a higher becaustry negles scores higher HCR-20 risk item score. a higher becaustry negles scores higher HCR-20 risk item score. a higher becaustry negles scores higher HCR-20 risk item score. A higher HCR-20 risk item score. A higher HCR-20 risk item scores higher HCR-20 risk item score. A higher HCR-20 risk item score A higher A higher HCR-20 risk item score A higher A higher HCR-20 risk item score A higher HCR-20 risk item score A highe

ORIGINAL PAPER

External validity and anchoring heuristics: application of DUNDRUM-1 to secure service gatekeeping in South Wales

Daniel Lawrence,¹³ Tracey-Lee Davies,¹¹ Ruth Bagshaw,³ Paul Hewlett,¹ Parnela Taylor,¹⁴ Andrew Watt¹

Editor (2018) 42 (2018) 45 (2018)	(wpeapor a
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In Proc. Autority 2008. They is an Open Access action. Biophysical acide the terms of the Creative Comments Ambulant Control Departments	Clinical implications. Patient placement was broady argned with DUNDRUM-1 recommendations. However, not all brage items informed gatekeeping decisions. It remains to be said whether decisions inchand in this way are effective.
and manufactures sing it means from	Declaration of interest. Or Mark Pressburg stars permission for ALC values from

 Descent ARTICLE
 Open Access

 Triage, decision-making and follow-up of patients referred to a UK forensis service: validation of the DUNDRUM toolkit
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Keywords: Forense, Medium security, Admission, DUNDRUM, Trage

Prestone at all BMC Psychiatry (2015) 13:239 DOI: 10.1188/012888-015-0620-0

Applicability of the DUNDRUM-1 in a forensic Belgium setting

Petra Habets, Inge Jeandarme and Harry G. Kennedy

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BMC Psychiatry

Assessment of need for inpatient treatment for mental disorder among female prisoners: a cross-sectional study of provincially detained women in Ontario

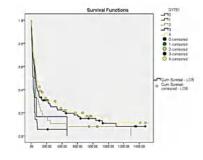
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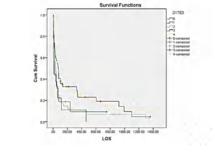
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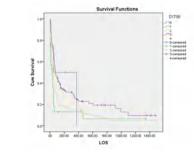
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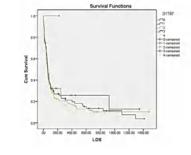
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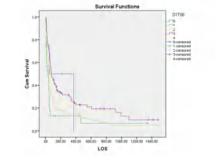
Kaplan Meyer survival curve

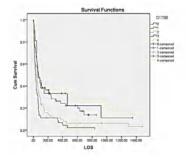


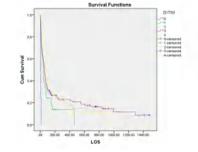


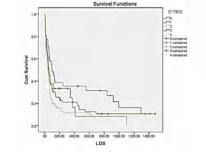


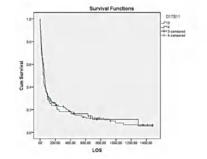


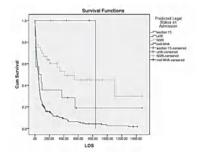




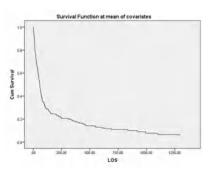




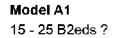


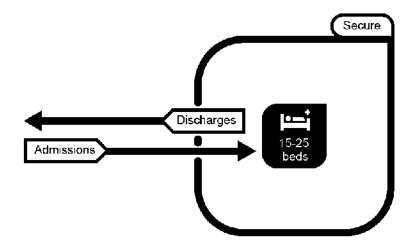


Cox regression: Exp(B) OR = 0.645 95% CI 0.542 - 0.768. Wald X2 = 24.4, df=1, p<0.001



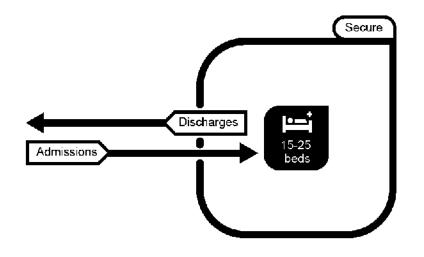






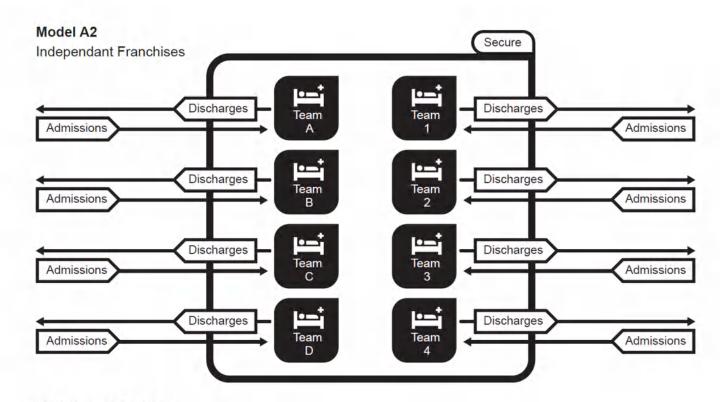
	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
ModelA	no	No	No	No	no	no

Model A1 15 - 25 B2eds ?



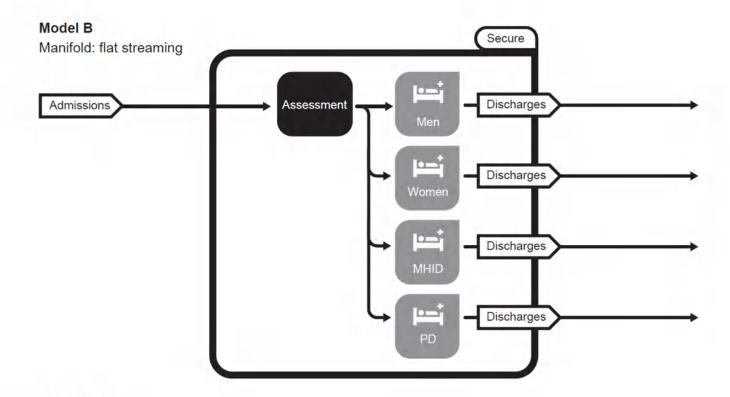
Works for small populations and small units Mixes acute, sub-acute and pre-discharge Mixes high, medium and low secure Mixes male and female, mental illness, intellectual and developmental disabilities.... Lacks critical mass for niche / specialist treatments..

	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
ModelA	no	No	No	No	no	no



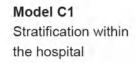
Limitless numbers of beds

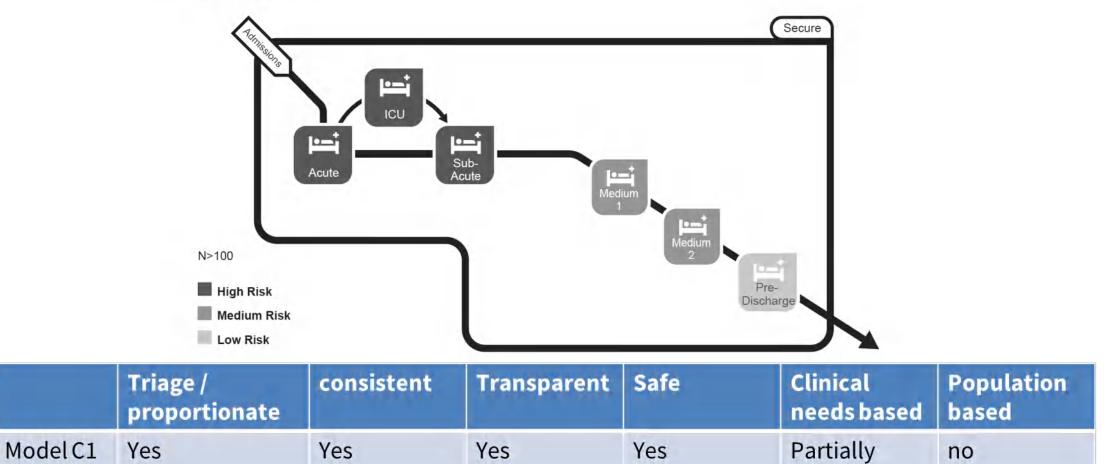
	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
ModelA	No	No	No	No	No	No



N=(10-20) x 4

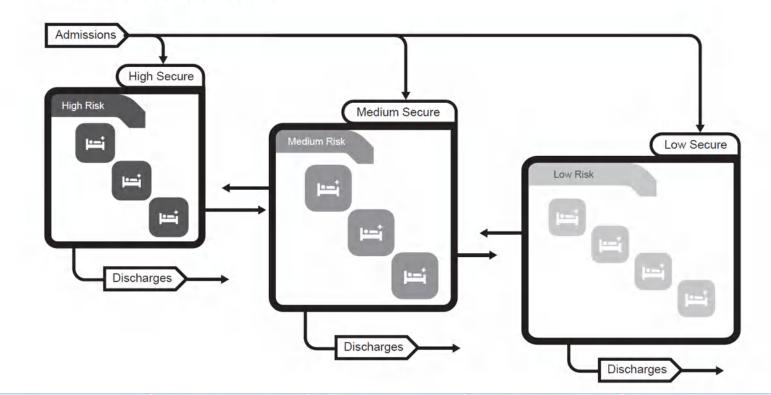
	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
Model B	no	No	Yes	No	Partially	no





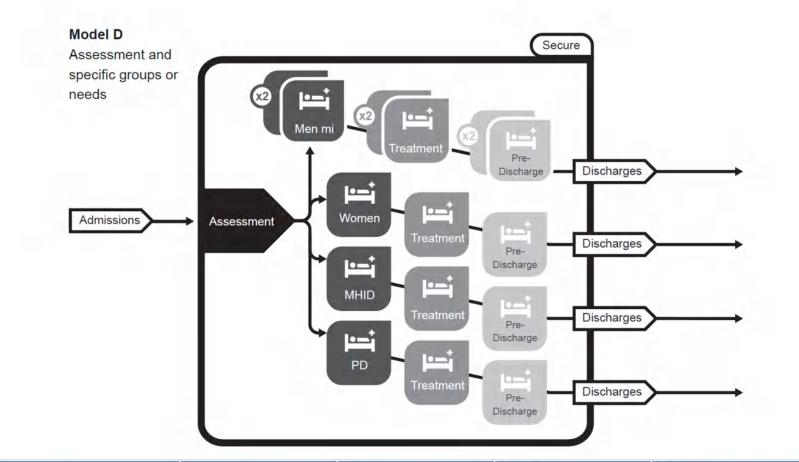
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Model C2 Stratification for very large populations

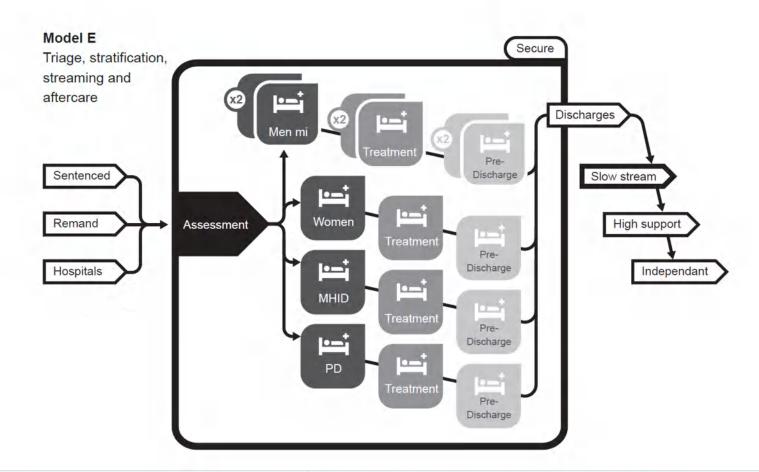


	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
Model C2	Yes	Yes	Yes	Yes	partially	Yes

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	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
Model D	Yes	Yes	Yes	Yes	Yes	no

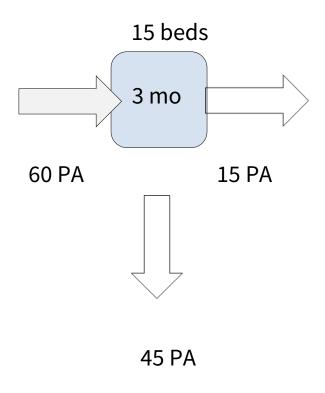


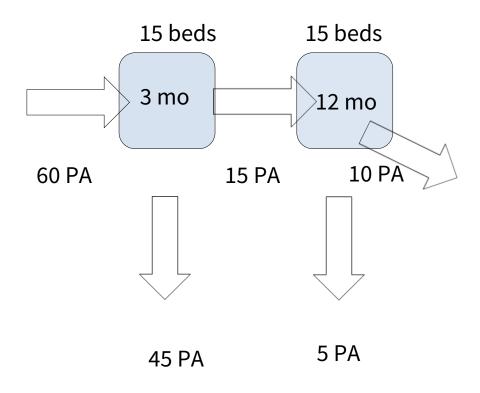
	Triage / proportionate	consistent	Transparent	Safe	Clinical needs based	Population based
Model E	Yes	Yes	Yes	Yes	Yes	Yes

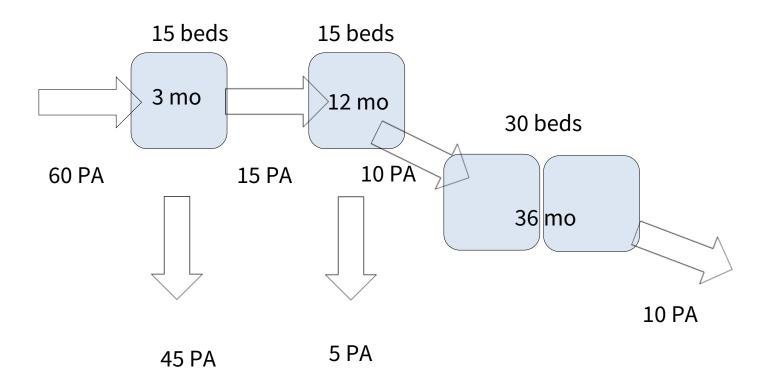
Active management of length of stay

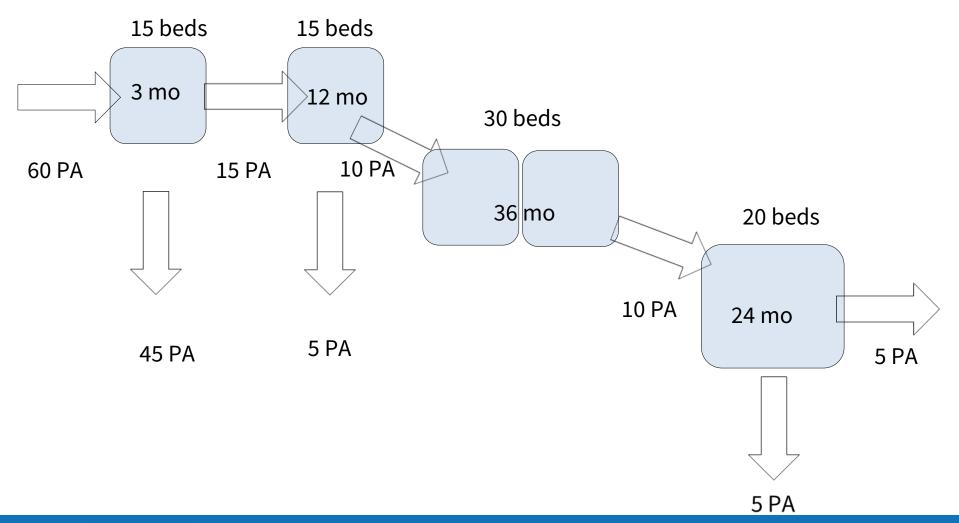
15 beds can accommodate up to 60 admissions a year 1f managed to a limit of 3 months t1/2=30 days;
15 beds can accommodate up to 15 admissions a year if managed to a limit of 12 months t1/2=120 days
30 beds can accommodate up to 10 admissions a year if managed to a limit of 3 years t1/2=360 days

20 beds can accommodate up to 10 admissions a year if managed to a limit of 2 years

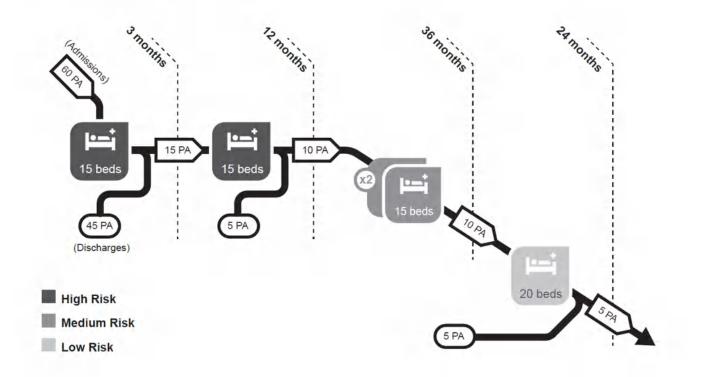








Standard Model: Stratified therapeutic security



3. Treatments

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Treatments

- Multi-modal pharma and seven pillars
- Therapeutic alliance and hard goal setting
- Resourcing, scheduling, delivery

Downloaded from http://rstb.royalsocietypublishing.org/ on May 7, 2016

THE ROYAL SOCIETY

Phil, Trans. R. Soc. B (2008) **363**, 2577–2597 doi:10.1098/rstb.2008.0035 Published online 8 May 2008

Review

A review of effective interventions for reducing aggression and violence

James McGuire*

Division of Clinical Psychology, School of Population, Community and Behavioural Sciences, University of Liverpool, Whelan Building, Liverpool L69 3GB, UK

This paper addresses the question of whether individual violence can be reduced in frequency or severity, if so to what extent and by which methods. It opens with a brief overview of the nature of personal violence and discussion of some key definitional and methodological problems. However, its principal focus is on the findings obtained from a series of meta-analytic reviews of structured programmes for adolescents and adults who have shown repeated aggression or been convicted of personal violence, drawing together the results of studies conducted in prison, probation, youth justice and allied services. Additional results are considered from a systematic review of studies of violence prevention among offenders with mental disorders. This incorporates the preliminary findings of a meta-analysis of controlled trials of psychosocial interventions with that population. Overall, it is concluded that there is sufficient evidence currently available to substantiate the claim

SPECIAL ARTICLE

How important are the common factors in psychotherapy? An update

BRUCE E. WAMPOLD

Department of Counseling Psychology, University of Wisconsin, Madison, WI, USA; Modum Bad Psychiatric Center, Vikersund, Norway

The common factors have a long history in the field of psychotherapy theory, research and practice. To understand the evidence supporting them as important therapeutic elements, the contextual model of psychotherapy is outlined. Then the evidence, primarily from metaanalyses, is presented for particular common factors, including alliance, empathy, expectations, cultural adaptation, and therapist differences. Then the evidence for four factors related to specificity, including treatment differences, specific ingredients, adherence, and competence, is presented. The evidence supports the conclusion that the common factors are important for producing the benefits of psychotherapy.

Key words: Common factors, contextual model, psychotherapy, alliance, empathy, expectations, cultural adaptation, therapist differences, specific ingredients

(World Psychiatry 2015;14:270-277)

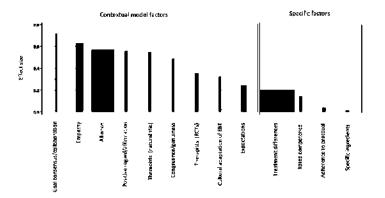


Figure 1 Effect sizes for common factors of the contextual model and specific factors. Wellfi of bars is proportional to number of studies on which effect is based. RCTs--randomized controlled triak. ERT--evidence-based treatments

Multimodal treatments to prevent violence and enhance recovery:

• core treatments:

physical health, mental health, substance misuse, offending behaviours, family and intimacy (5 h per patient per week)

• rehabilitation:

self-care and activities of daily living, education occupation creativity (20 h per patient per week)

- Tiered treatments and competencies
- Quality standards:
- $^\circ$ 25 h per patient per week, of which
- 5 h of core treatments at higher tiers per patient per week
- Logic model: inputs and outcomes
- ° 17.5–25 whole-time equivalent therapists for 100
- patients to deliver 5 h core therapy for 100 patients

Individual care plan Hospital wide system



Short term Substantive Maintenance / recovery

Neurcognitive learning style Sequencing Dose-response

Tier	definition	duration	examples	Skills
1	Low Intensity interventions are brief interventions aimed at current distress or transient or mild mental health problems but may have a limited effect on overall functioning or risk of re- offending. The interventions are aimed at mild/moderate mental health problems with little complexity, are time-limited and normally last between 2-6 sessions	2 to 6 sessions.	Information, psychoeducation, counselling,	Knowledge, listening skills, non-directive.
2	High Intensity denotes a standardised psychological therapy delivered to a formal protocol or model for mental health problems with significant effect on functioning and where there is a significant effect on risk of re-offending and future risk of harm	2 to 6 sessions	Manualised group work, manualised interventions. Coping skills, CBT for specific client groups.	Use of manual.
<u>3</u>	Specialist interventions are standardised high intensity psychological therapies developed and modified for specific patient groups. These are aimed at moderate/severe mental health problems with significant effect on functioning. The interventions themselves are generally targeted at patients with more complex risk and needs and are directly related to offending behaviour and its causes	6 to 20 sessions	CBT, interpersonal psychotherapy, short term focused psychodynamic psychotherapy for moderate to severe mental illness and mental disorder with significant complexity	
4	Highly Specialist interventions are psychological therapies or interventions based on case formulations that may be drawn from a range of psychological models and are individually tailored to the patient's mental health problems and where risk assessment and management are key drivers in the execution of the therapy.	Normally last 16 sessions or longer.	Formal psychotherapies for complex problems. Individualised tailored interventions based on case formulations drawn from a range of psychological models, aimed at patients with highly complex and / or enduring mental illness and mental disorder	Supervision and training, research and consultation skills

Treatment Resources

25 hours a week of 'structured activity'

5 hours a week of core treatment programmes

- Mental health
- Substance misuse
- Offending behaviour
- Family therapies

Treatment Resources 2

Model A: 5 hours / week for 100 patients = 500 hours

Model B: 3 hours 1:1 and a 2 hour group (8 patients 2 therapists)

20 hours / week of face to face time per WTE

Model A:

All Individual Sessions =

- 500 hours 1:1 / 20 =
- **25 WTE** for 100 patients (not MDT members!)

Model B:

2 hours / week of a group of 8, with two therapists for 100 patients =

– 12.5 groups / week, 2.5 WTE

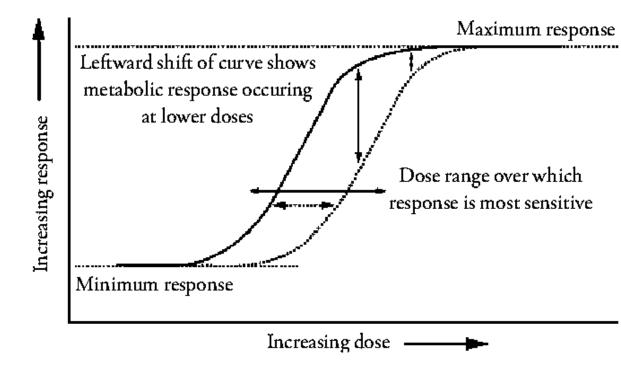
3 hours / week 1:1 for 100 patients

- 300 hours / 20 = 15 WTE
- Total 17.5 WTE for 100 patients

4. Evaluation

Logic Model

- Relating resources / in-puts to outputs / outcomes
- Has the model of care defined achievable goals?
- Will five hours a week of tier 3 and tier 4 programmes in mental health, substance misuse, offending behaviour and family therapy lead to an actively managed length of stay?



Population health and organisation performance indicators:

• sustainable admission and discharge rates over 5 years

(length of stay)

• admissions per 100 000 per year, discharges per 100

beds per year

• violence and restrictive practices per 100 admissions and

per 100 beds

- absconding per 1000 episodes of leave outside the secure perimeter.
- positive drug screens per 100 patient-years

Individual-level indicators – the four recoveries:

• forensic recovery: consent and capacity, leave, transfer, conditional discharge, risk and protective measures; treatment programme completion; forensic recovery

• **symptomatic recovery:** positive, negative and general symptoms, remission rates, violent incidents and restrictive practices

• **functional recovery:** neurocognition and social cognition, clinical and global assessment of function, social and occupational function

• **personal recovery:** ward atmosphere, satisfaction, working alliance, perceived coercion; concordance of self-reported and staff-rated treatment completion and forensic recovery

Four Recoveries:

six monthly, independent, reporting to MHRT, routine outcome measures

Personal recovery	Symptomatic recovery	Functional recovery	Forensic recovery
Ward atmosphere	PANSS	МССВ	Leave (rate, time to)
Quality of life	Remission rate	Neurocognition	Transfer
	Young Mania Scale	Social cognition	Capacity to consent
	STAXI / Novaco	AMPS-P	Conditional discharge
	GAF	SOFAS	MacArthur CAT
		GARF	DCL
Self-report DUNDRUM-3			DUNDRUM-3
Self-report DUNDRUM-4			DUNDRUM-4

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ORIGINAL ARTICLE



Observed Outcomes: An Approach to Calculate the Optimum Number of Psychiatric Beds

Richard O'Reilly¹ · Stephen Allison² · Tarun Bastiampiallai²

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Abstract

The number of psychiatric beds, in most developed countries, has decreased progressively since the late 1950s. Many clinicians believe that this reduction has gone too far. But how can we determine the number of psychiatric beds a mental health system needs? While the population health approach has advantages over the normative approach, it makes assumptions about optimal and minimum duration of hospitalization required for various psychiatric disorders. In this paper, we describe a naturalistic approach that estimates the required number of psychiatric beds by comparing the bed levels at which negative outcomes develop in different jurisdictions. We hypothesize that there will be a threshold below which negative outcomes will be seen across jurisdictions. We predict that hospital key performance indices will be more sensitive to bed reductions than the clinical and social outcomes of patients. The observed outcome approach can complement other approaches to determining bed numbers at the national and local levels, and should be a priority for future health services research.

Keywords Psychiatric beds · Deinstitutionalization · Health services research



Trinity College Dublin

Coláiste na Tríonóide, Baile Átha Cliath The University of Dublin

Thank You

DUNDRUM toolkit: DRILL: DUNDRUM Capacity Ladders: ResearchGate:

Population outcomes

Rates of homelessness amongst people with SMI

Rates of people with SMI in homeless shelters

Rates of all cause mortality (SMR) amongst people with SMI

Rates of suicide (and SMR amongst people with SMI)

Rates of crime committed by people with SMI

Rates of incarceration amongst people with SMI

Prevalence of SMI in prison populations, remand and sentenced

Burden on carers

Hospital / Service KPIs

Out of area placements

Emergency room waiting times

Involuntary admissions

Occupancy rates in psychiatric units

Average length of stay in psychiatric units

Level of acuity on inpatient wards

Discharge to homelessness

Readmission rates

General systems theory is based on non-linear systems

- Queue theory
- Flow dynamics and length of stay
- Reliable when studying whole systems
- Reliable when systems are stable over appropriate periods
- Describes population dynamics
- Mixed exponentials
- Servo systems
- Mandlebrot, fractal and chaotic systems

 $- y = A^{-B} + C^{-D} + E^{-F}$

Cross-sectional length of stay

A = notional acute beds, C=notional medium-term beds,
E = long term beds.
B, D & E = (1.44 X 1/half-life)
95% discharged in four times the half-life.