

Jockey Club End-of-Life Community Care Project

Evaluation on Interdisciplinary Complex Intervention: Effectiveness, Efficiency and Continuous Improvement

賽馬會安寧頌計劃:跨學科複雜干預的

評估和持續改進



#### **Professor Amy Y. M. Chow**

Project Director, JCECC Project
Professor, The University of Hong Kong

#### Miss Iris K. N. Chan

Associate Director, JCECC Project The University of Hong Kong

策劃及捐助 Initiated and funded by:



#### 合作夥伴 Project Partner:

















## 1. Background of the project



## **JCECC Project Framework**



In 2015, the JC Trust approved 255 million to launch the 6-year Jockey Club End-of-Life Community Care Project ("JCECC"), aimed at *improving the quality of end-of-life (EoL)* care, enhancing the capacity of service providers, as well as raising public awareness. It is a multi-disciplinary, multi-institutional and cross-sectoral collaboration, with special emphasis on the interface between social and health care systems.



**Project Objectives** 



**Enable Alternative** Choice of Care



Extend Services to 💆 🐧 🖰 Wider Patient Population



Strengthen Medical-Social Collaboration



**Enhance End-of-Life** Care Competence



Assess Project Impact and Cost Implication

## **Features of Community EoLC Models**

(2016-2018)



NGOs

Enhanced community health care model

Family capacity
building model

Non-cancer patient capacity building model

Community
volunteer capacity
building model

Residential care staff capacity building model

**Patients** 

Cancer & noncancer Cancer & noncancer

Non-cancer

Cancer & noncancer Cancer & noncancer

Interven -tions

Holistic care with emphasis on home care nursing support

Strong ACP facilitating team Respite

Holistic care with cheer-up activities to bring happiness and joy Caregiver stress relieve

interventions

Holistic care
with emphasis
on equipping
patient's
symptom
management
skills

Holistic care
assisted by
volunteer
intensive support

Training for RCHEs staff

EOLC protocol in RCHEs and AD education

Community Partners

Medical Professionals

**EHCCS + Family** 

Patient Groups+ ProfessionalVolunteers

**Church Groups** 

Long-term Care + RCHEs

## **Unfamiliarity with Familiar Terms**





Department of Social Work and Social Administration The University of Hong Kong 香港大學社會工作及社會行政學系

Evidence Based Clinical Social Work Research Cluster 循證社會工作教研中心

情緒取向家長小組:經驗分享與成效研究

**Emotionally-focused Group Therapy for Parents with** Children at Preadolescence: Impact and Challenges

賽馬會安寧頌計劃:跨學科複雜干預的評估和持續改進

Evaluation on Interdisciplinary Complex Intervention; **Effectiveness, Efficiency and Continuous Improvement** 



**DEC 14** MONDAY 2:00-4:00PM





Abstract, rundown & registration This webinar will be conducted in Cantonese. 此講座以粤語講解及分享。





## 2. Implementation Sciences



## Implementation Sciences (WHO, 2013 45







"Neglecting implementation challenges costs lives and money" (p.13)

"implementation research takes what we know and turn it into what we do." (p.19)

"The basic intent of implementation research is to understanding not only what is and isn't working, but how and why implementation is going right or wrong, and testing approaches to improve it." (p.27)



## (WHO, 2013)







- Understanding context
- Assessing performance
- Supporting and informing scaleup
- Supporting quality improvement and health system strengthening



## Implementation Sciences (WHO, 2013 p. 31) a





Proof of concept: Is it safe and does it Proof of implementation: How does it work in real-world settings?

Informing Scale-up: Health systems integration and sustainability

\*

#### Implementation not relevant

#### Research question:

Basic sciences, product development, or inquiry unrelated to implementation

Context: Controlled or not related to implemen-

Implementation strategies and variables; not relevant

#### Implementation relevant but not considered

#### Research question:

Susceptible to implementation variables, but not considered

Context: Largely controlled, highly selected population, factors affecting implementation fixed or ignored

Implementation strategies: None or one

type only not considered in research. Implementation variables: Can influence results but assumed

to be controlled or not

resevant

Examples: Efficacy stud-

#### Implementation relevant but effects reduced

#### Research Questions:

Secondary question, e.g. average effectiveness of a program

Context: Real-world setting with partially controlled intervention Implementation

strategies: Identified and described, but uses one type only and effects. are controlled

Implementation variables: Assumed to be equal or unchanging. or effects controlled (e.g. adjusted as confounding

#### Implementation studied as contributing factors

#### Research Questions:

Implementation

mplementation

#### Implementation as primary focus

#### Research Questions:

Context: Real-world set implementation strategies: May be

Implementation variables: May be



Examples: Basic science; Phase I & II clinical trials: Qualitative studies unrelated to implementation issues (e.g. perceptions of

ies, Phase III randomized controlled clinical trial: Qualitative study on health service use that does consider how well the services are provided.

Example: Pragmatic trials, Quasi-experimental study with intervention and comparison areas: Observational studies with implementation as secondary issue

Examples: Effectiveness-Implementation trials: Observational studies assessing implementation variables as secondary factors; Participatory research.

Examples: Mixed methods and quasi-experimental studies to determine the changes in delivery or acceptability of a program; Observational studies on adaptation, learning, and scaling-up of a programme



## 3. Evidence-based Practice



### **Evidence-Based Practice**



## Two different approaches (Spensberger et al., 2020)

- The process of Evidence-based practice
- The empirically supported practices or intervention



## **Practice**

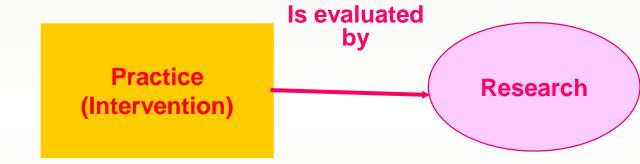


Practice (Intervention)





## **Practice Research**





## **Practice Research**







## **Implementation Sciences**





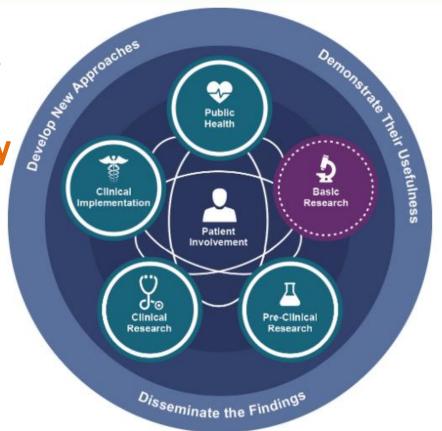
## Translational Sciences (NIHNCATS, 2020)



### **Translation:**

"The process of turning observations in the laboratory, clinic and community into interventions"

Basic research: scientific exploration that can reveal fundamental mechanisms of biology, disease or behavior. Every stage of the translational research spectrum builds upon and informs basic research.



### **Practice Research**

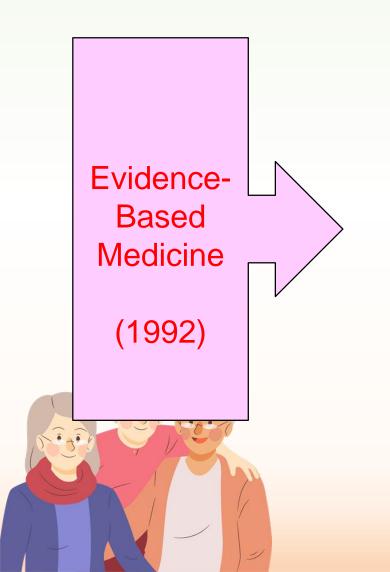


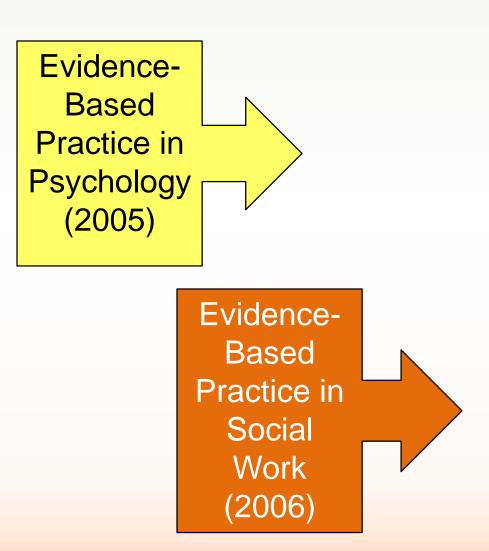




## **Development of Evidence-based Practice**







### **Evidence-based Medicine**



The Rational Clinical Examination

#### **Evidence-Based Medicine**

A New Approach to Teaching the Practice of Medicine

Evidence-Based Medicine Working Group

A NEW paradigm for medical practice is emerging. Evidence-based medicine de-emphasizes intuition, unsystematic clinical experience, and patholysiologic rationale as sufficient grounds for clinical experience and patholysiologic rationale as sufficient grounds for clinical research. Evidence-based medicine requires new skills of the physician, including efficient literature searching and the application of formal rules of evidence evaluating the clinical literature.

An important goal of our medical residency program is to educate physicians in the practice of evidence-based medicine. Strategies include a weekly, formal academic half-day for residents, devoted to learning the necessary skills; recruitment into teaching roles of physicians who practice evidence-based medicine; sharing among faculty of approaches to teaching evidence-based medicine; and providing faculty with feedback on their performance as role models and teachers of evidence-based medicine. The influence of evidence-based medicine is for influence of evidence and medicine. The influence of evidence had a continuous control of the control

#### **CLINICAL SCENARIO**

A junior medical resident working in a teaching hospital admits a 48-year-old previously well man who experienced a witnessed grand mal seizure. He had never had a seizure before and had not had any recent head trauma. He dramk alcohol once or twice a week and had not had alcohol on the day of the seizure. Findings on physical examination are normal. The patient is given a loading

A complete list of members of the Evidenced-Based Medicine Working Group appears at the end of this ar-

ticle.

Reprint requests to McMaster University Health Sciences Centre, Room 3W10, 1200 Main St W, Hamilton, Ontario, Canada L8N 3Z5 (Gordon Guyatt, MD).

dose of phenytoin intravenously and the drug is continued orally. A computed tomographic head scan is completely normal, and an electroencephalogram shows only nonspecific findings. The patient is very concerned about his risk of seizure recurrence. How might the resident proceed?

#### The Way of the Past

Faced with this situation as a clinical clerk, the resident was told by her senior resident (who was supported in his view by the attending physician) that the risk of seizure recurrence is high (though he could not put an exact number on it) and that was the information that should be conveyed to the patient. She now follows this path, emphasizing to the patient not to drive, to continue his medication, and to see his family physician in follow-up. The patient leaves in a state of vague trepidation about his risk of subsequent seizure.

#### The Way of the Future

The resident asks herself whether she knows the prognosis of a first seizure and realizes she does not. She proceeds to the library and, using the Grateful Med program,1 conducts a computerized literature search. She enters the Medical Subject Headings terms epilepsy, prognosis, and recurrence, and the program retrieves 25 relevant articles. Sur-veying the titles, one<sup>2</sup> appears directly vant. She reviews the paper, finds that it meets criteria she has previously learned for a valid investigation of prognosis,3 and determines that the results are applicable to her patient. The search costs the resident \$2.68, and the entire process (including the trip to the library and the time to make a photocopy of the article) took half an hour.

The results of the relevant study show that the patient risk of recurrence at 1 year is between 43% and 51%, and at 3 years the risk is between 51% and 60%. After a seizure-free period of 18 months is risk of recurrence would likely be less than 20%. She conveys this information to the patient, along with a recommendation that he take his medication, see his family doctor regularly, and have a review of his need for medication if he remains seizure-free for 18 months. The patient leaves with a clear idea of his likely prognosis.

#### A PARADIGM SHIFT

Thomas Kuhn has described scientific paradigms as ways of looking at the world that define both the problems that can legitimately be addressed and the range of admissible evidence that may bear on their solution. When defects in an existing paradigm accumulate to the extent that the paradigm is challenged and replaced by a new way of looking at the world. Medical practice is changing, and the change, which involves using the medical literature more effectively in guiding medical practice, is profound enough that it can appropriately be called a paradigm shift.

The foundations of the paradigm shift ie in developments in clinical research over the last 30 years. In 1960, the randomized clinical trial was an odity, It is now accepted that virtually no drug can enter clinical practice without a demonstration of its efficacy in clinical trials. Moreover, the same randomized trial method increasingly is being applied to surgical theoryee's and diagnostic tests. Surgical theoryee's and diagnostic tests of explance as a method of summarizing the results of a number of randomized trials, and ultimately may have as profound an effect on setting treatment policy as have randomized trials themselves. While less dramatic, crucial methodological ad EBM ... de-emphasizes intuition, unsystematic clinical experience, and pathophysiologic rationale as sufficient grounds for clinical decision making and stresses the examination of evidence from clinical research

 (Evidence-Based Medicine Working Group, 1992)

2420 JAMA, November 4, 1992-Vol 268, No. 17

Evidence-Based Medicine-Evidence-Based Medicine Working Group

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 (Evidence-Based Medicine Working Group, 1992)

2420 JAMA, November 4, 1992-Vol 268, No. 17

Evidence-Based Medicine-Evidence-Based Medicine Working Group



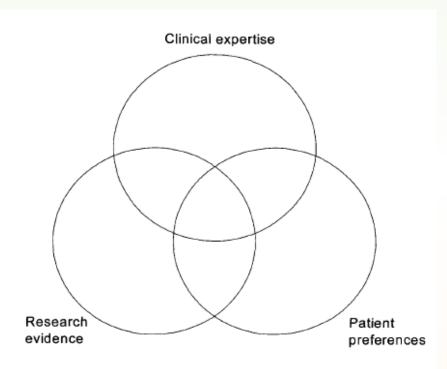


Figure 2.1. Early model of the key elements for evidence-based clinical decisions. From Evidence-Based Medicine Notebook, Vol. 7 (p. 36), by R. B. Haynes, P. J. Devereaux, and G. H. Guyatt, 2002, London: BMJ Publishing Group. Copyright 2002 by the BMJ Publishing Group. Reprinted with permission.

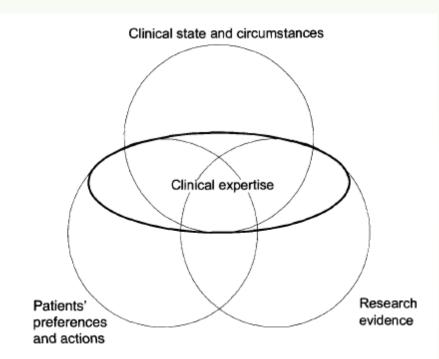


Figure 2.2. An updated model for evidence-based clinical decisions. From Evidence-Based Medicine Notebook, Vol. 7 (p. 37), by R. B. Haynes, P. J. Devereaux, and G. H. Guyatt, 2002, London: BMJ Publishing Group. Copyright 2002 by the BMJ Publishing Group. Reprinted with permission.

# Evidence-Based Practice in Psychology (EBPP) (EBPP) Jockey Club End-of-Life Community Care Project

#### Evidence-Based Practice in Psychology

APA Presidential Task Force on Evidence-Based Practice

The evidence-based practice movement has become an important feature of health care systems and health care policy. Within this context, the APA 2005 Presidential Task Force on Evidence-Based Practice defines and discusses evidence-based practice in psychology (EBPP). In an integration of science and practice, the Task Force's report describes psychology's fundamental commitment to sophisticated EBPP and takes into account the full range of evidence psychologists and policymakers must consider. Research, clinical expertise, and patient characteristics are all supported as relevant to good outcomes. EBPP promotes effective psychological practice and enhances public health by applying empirically supported principles of psychological assessment, case formulation, therapeutic relationship, and intervention. The report provides a rationale for and expanded discussion of the EBPP policy statement that was developed by the Task Force and adopted as association policy by the APA Council of Representatives in August 2005.

Keywords: evidence-based practice; best available research evidence; clinical expertise; patient characteristics, culture, and preferences

rom the very first conceptions of applied psychology as articulated by Lightner Witmer, who formed the first psychological clinic in 1896 (McReynolds, 1997), psychologists have been deeply and uniquely associated with an evidence-based approach to patient care. As Witmer (1907/1996) pointed out, "the pure and the applied sciences advance in a single front. What retards the progress of one, retards the progress of the other; what fosters one, fosters the other" (p. 249). As early as 1947, the idea that doctoral psychologists should be trained as both scientists and practitioners became American Psychological Association (APA) policy (Shakow et al., 1947). Early practitioners such as Frederick C. Thorne (1947) articulated the methods by which psychological practitioners integrate science into their practice by "increasing application of the experimental approach to the individual case and to the clinician's own 'experience'" (p. 159). Thus, psychologists have been on the forefront of the development of evidence-based practice for decades.

Evidence-based practice in psychology is therefore consistent with the past 20 years of work in evidence-based medicine, which advocated for improved patient outcomes by informing clinical practice with relevant research (50x & Wooff, 1938; Wooff & Atkins, 2001). Sackett, Rosenberg, Gray, Haynes, and Richardson (1996) described evidence-based medicine as "the conscientious, explicit, and judicious use of current best evidence in making decisions about the care of individual patients" (pp. 71-72). The use and misuse of evidence-based principles in the practice of health care has affected the dissemination of health care funds, but not always to the benefit of the patient. Therefore, psychologists, whose training is grounded in empirical methods, have an important role to play in the continuing development of evidence-based practice and its focus on improving patient care.

One approach to implementing evidence-based practice in health care systems has been through the development of guidelines for best practice. During the early part of the evidence-based practice movement, APA recognized the importance of a comprehensive approach to the conceptualization of guidelines. APA also recognized the risk trag guidelines might be used inappropriately by commercial health care organizations not intimately familiar with the scientific basis of practice to dictate specific forms treatment and restrict patient access to care. In 1992, APA formed a joint task force of the Board of Scientific Affairs, the Board of Professional Affairs, and the Committee for

The Task Force members were Carol D. Goodbeat. Edil Coltair. Independent Practice, Pranceton, NJP, Roadl F. Levant, Edil Ge-cofficio, University of Akron). David H. Burlow, PhD (Botson University) Jean Carder, PhD (Independent Practice, Waldington, DC, Karna W. David-son, PhD (Columbia University), Kristofer J. Hagpland, PhD (University) Josephine D. Johnson, PhD (Independent Practice, Livonia, MJ), Luara C. Leviton, PhD (Dorbert Wood Johnson Fromdingon, Practice, NJ), Alvin R. Mahler, PhD (Ementus, University of Ottoma), Freedreck L. Newman, D. B. Darbor, PhD (Delmort and Cardina), PhD (Park Markinstonal University), John C. Nocross, PhD (University of Secundon), Doron K. Stiverman, PhD (New York University), Brand D. Smedley, PhD (The Opporturally Agendia, Washington, O.C.), Entere E. Wangold, PhD (University of Wisconsina), Dera U. Westen, PhD (Entered PhD (University of California, Davis) Professional American Psychological Association (APA) steff included Geoffrey M. Reed, PhD, and Lyuis D. Bellar, PhD (Entere Develocate), Paul D. Nelson, PhD and Cyurlias D. Bellar, PhD (Entere Develocate), Paul D. Nelson, PhD and Cyurlias D. Bellar, PhD (Entere Develocate), and Merry Bullock, PhD (Science Directorate).

The Task Force wishes to thank John Weisz, PhD, for his assistance in draftling portions of the report related to children and adolescents, James Mitchella and Darar Rehman, APA Professional Development interns, for their assistance throughout the work of the Task Force, and Emestine Penniman for administrative support. In August 2005, the APA Council of Representatives approved the

In August 2005, the APA Council of Representatives approved the policy statement on evidence-based practice in psychology developed by the Task Force and received a version of this report. The report contains an expanded discussion of the issues raised in the policy statement, including the rationale and references supporting it. The policy statement is available online at http://www.apa.org/practice/ebpstatement.pdf and as the Appendix of this article.

Correspondence concerning this article should be addressed to the Practice Directorate, American Psychological Association, 750 First Street NE, Washington, DC 20002-4242.

- APA Presidential Task Force on Evidence-Based Practice in 2005
- EBPP is the integration of the best available research with clinical expertise in the context of patient characteristics, culture, and preferences."
- the purpose ...to promote effective psychological practice and enhance public health by applying empirically supported principles of psychological assessment, case formulation, therapeutic relationship, and intervention

# Evidence-Based Practice in Psychology (EBPP) Jockey Club End-of-Life Community Care Project

Best Available Research Evidence

Patient
Characteristics,
Culture, and
Preference

Clinical **Expertise** 

## Evidence-based practice in Social Work Property Control of the Con

Jockey Club End-of-Life Community Care Project

#### **Evidence-Based Practice and Policy: Choices Ahead**

#### Eileen Gambrill

University of California, Berkeley

Choices about how to view evidence-based practice (EBP) are being made by educators, practitioners, agency administrators, and staff in a variety of organizations designed to promote integration of research and practice such as clearinghouses on EBP. Choices range from narrow views of EBP such as use of empirically based guidelines and treatment manuals to the broad philosophy and evolving process of EBP, emisioned by its originators, that addresses evidentiary, ethical, and application issues in a transparent context. Current views of EBP and policy are eviewed, and choices that reflect the adopted vision and related indicators are described. Examples include who will select then questions on which research efforts are focused, who at outcomes will be focused on, who will select them and on what basis, how transparent to be regarding the evidentiary status of services, how clients will be involved, and whether to implement needed organizational changes. A key choice is whether to place ethical issues front and center.

Keywords: evidence-based practice; choices; ethics; transparency

Choices about how to view evidence-based practice (EBP) are being made not only by educators, practitioners, and agency administrators but also by staff in a wide variety of organizations designed to promote the integration of research and practice. There are many such organizations including the Millbank Memorial Fund, which recently published Evidence-Based Mental Health Treatments and Services (Lehman, Goldman, Dixon, & Churchill, 2004), the Urban Institute, and the Rand Corporation. Regional organizations include the Bay Area Social Services Consortium (BASSC) and the recently formed California Child Welfare Clearinghouse for Evidence-Based Practice. The latter "exists to promote a quality practices framework for California's child welfare service system to ensure that children are safe and stable in families that can nurture them and assure their well being" (California Child Welfare Clearinghouse for Evidence-Based Practice, 2005). Such an organization may influence how educators, administrators, clients, and practitioners view EBP. What view of EBP will staff in

Author's Note: Portions of this article were presented as keynote address at the Leadership Symposium on Evidence-based Practice in the Human Services, sponsored by the California Social Work Education Center and the Child and Family Institute of California, Sacramento, California, 1914 the, 2005. This article was invited by the editor. Correspondence concerning this article should be addressed to Elikone Gambrill, Ph.D. School of Social Worker, Naviand Hall, University of California, Berkeley, Berkeley, CA 94720-7400; e-mail: ambrill fiberkeley edu.

Research on Social Work Practice, Vol. 16 No. 3, May 2006 338-357 DOI: 10.1177/1049731505284205 © 2006 Sage Publications such organizations embrace? Will they define this narrowly as basing decisions on practice-related research or using practice guidelines? Will they use the name but not the substance—continue business as usual? These questions are of vital importance because these organizations have an impact on the decisions made by educators and agency administrators, which in turn influence the decisions of practitioners and clients. Indeed, the very purpose of some is to advise administrators what services should be used. Consider the following:

The Clearinghouse will provide guidance on selected evidence based practices to statewide agencies, counties, public and private organizations, and individuals in simple straightforward formats reducing the "consumers" need to conduct literature searches, review extensive literature, or understand and critique research methodology. The Clearinghouse, using both a state advisory committee and a national panel of scientific advisors, will identify areas of priority interest and establish as set of criteria to select highly relevant evidence based practices to be included in the Clearinghouse database for dissemination. (California Child Welfare Clearinghouse for Evidence-Based Practice, 2005. n.p.)

What criteria will be used to identify "highly relevant evidence based practices"? The report from the Milbank Memorial Fund (Lehman et al., 2004) lists multisystemic therapy (MST) as an EBP, as does the aforementioned clearinghouse. Is there evidence that it is effective? Choices made reflect different views of EBP and policy that have been evident in the professional literature for some time. Choices and indicators that can be used to reveal them are described in this article.

 The process and policy of **Evidence-based practice in** social work as a decisionmaking process designed to help social workers to integrate ethical, evidentiary, and application concerns

(Gambrill, 2006)



# Evidence-Based Practice in Social Work (EBPSW) (EBPSW)

Best Available Research Evidence

**Clinical Expertise** 

Clients'
Preference and
Actions

Clinical
Characteristics
and
Circumstances



## 4. Inter-disciplinarity



## **Growing trend of Interdisciplinary Collaboration**



- Health X Social Work
- Education X Social Work
- Law X Social Work
- Art X Social Work
- Business X Social Work
- Housing X Social Work
- Combinations of above



## Three types of professional competencies



FIGURE 4: Barr's (1998) three types of professional competencies Common Competencies Individual Professional Collaborative Competencies: Competencies Complementary

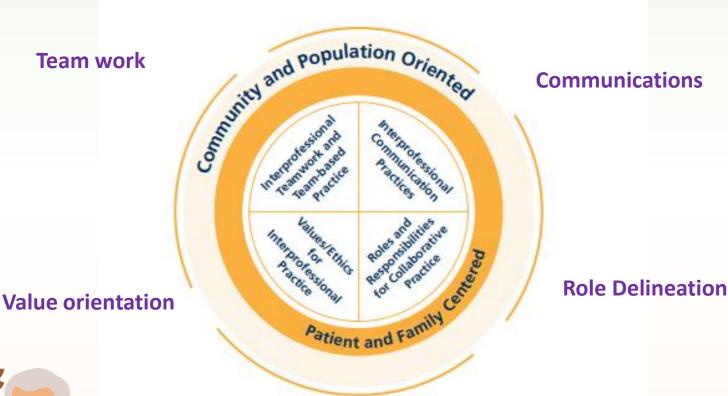


(Interprofessional Educational Collaborative Expert Panel, 2011, P.13)

## **Interprofessional Collaborative Practice Domains**



FIGURE 6: Interprofessional Collaborative Practice Domains





The Learning Continuum pre-licensure through practice trajectory

(Interprofessional Educational Collaborative Expert Panel, 2011, P.15)

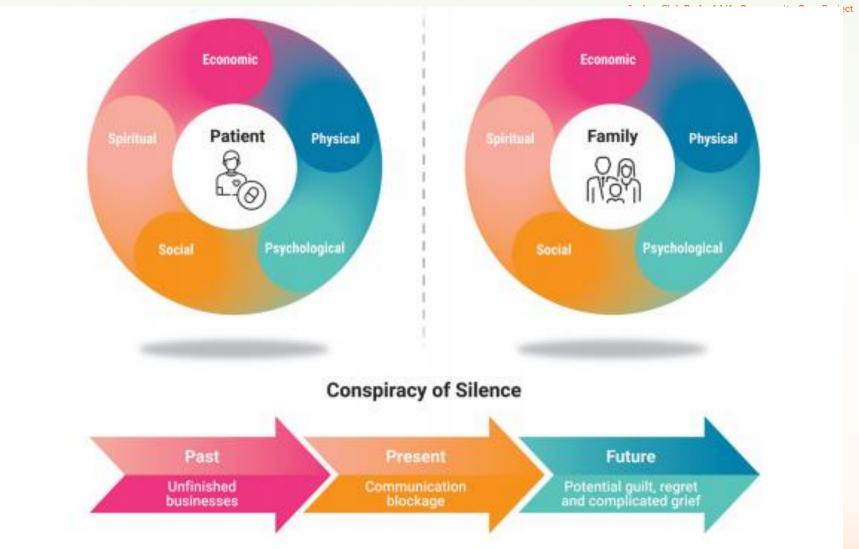


# 5. Evaluation of Complex Intervention



## **Complex Needs of Patients and Family Members**





## **Evaluating Complex Interventions**





## Developing and evaluating complex interventions:

Following considerable development in the field since 2006, MRC and NIHR have jointly commissioned an update of this guidance to be published in 2019.

Prepared on behalf of the Medical Research Council by:

Peter Craig, MRC Population Health Sciences Research Network
Paul Dieppe, Nuffield Department of Orthopaedic Surgery, University of Oxford
Sally Macintrye, MRC Social and Public Health Sciences Unit
Susan Michie, Centre for Outcomes Research and Effectiveness, University College London
Irwin Nazareth, MRC General Practice Research Framework
Mark Petticrew, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine

www.mrc.ac.uk/complexinterventionsguidance

#### Box 2 What makes an intervention complex?

Some dimensions of complexity

- · Number of and interactions between components within the experimental and control interventions
- · Number and difficulty of behaviours required by those delivering or receiving the intervention
- Number of groups or organisational levels targeted by the intervention
- · Number and variability of outcomes
- · Degree of flexibility or tailoring of the intervention permitted

Implications for development and evaluation

- A good theoretical understanding is needed of how the intervention causes change, so that weak links in the causal chain can be identified and strengthened
- Lack of impact may reflect implementation failure (or teething problems) rather than genuine ineffectiveness; a thorough process evaluation is needed to identify implementation problems.
- Variability in individual level outcomes may reflect higher level processes; sample sizes may need to be larger to take account of the extra variability, and cluster- rather than individually-randomized designs considered.
- Identifying a single primary outcome may not make best use of the data; a range of measures will be needed, and unintended consequences picked up where possible.
- Ensuring strict fidelity to a protocol may be inappropriate; the intervention may work better if adaptation to local setting is allowed.

## Evaluation Framework (10M, 2014)



**OUTPUTS** OUTCOMES **INPUTS ACTIVITIES** (Intermediate (Proximal Effects) Effects) (Health & Social Care) Professionals' Funding Changes in: Competence Development Professionals Knowledge Attitude Trained Skills Competence Development Professional-led Patients' and Community Family Members' changes in: - Quality of Life, - Emotional Service Provided States. And Family Relationship Volunteer-led Community EoLC Beneficiaries - Utilization of Served Health and Social Care Services for Non Cancer Patients, Family Members, Patients, Family Volunteers and

Members.

Volunteers and

General Public

Trained

Community Knowledge and

Skill Transfer

**imunity Care** Project IMPACT

### Impact on Professional:

(Distal Effects)

- Professional Quality of Life
- Job Satisfaction

#### Impact on Patients and Family Members:

- Utilization of Health and Social Care services

#### Impact on Public:

- Attitude towards death

#### Impact on Community:

- Coverage of
- Choices of EoLC - Cost-Effectivene ss of EoLC
- Continuity of

General Public

Changes in:

Attitude

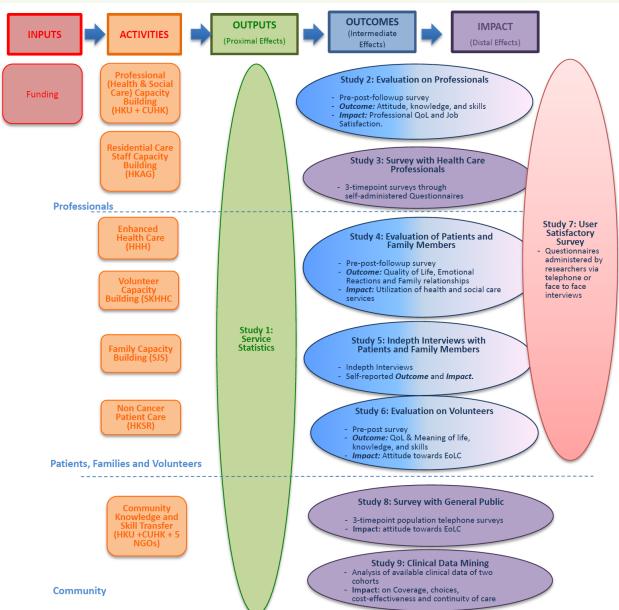
Skills

Knowledge,

**EoLC** Competency of

EoLC providers

## **Evaluation Component**





## **Evaluation of End-of-Life Care**



## **Challenges**

- Inform consent
- Respect autonomy to participation
- Random assignment of intervention
- Participants' induced distress
- Validated measurement
- Recalled biases
- Small n
- Attrition



## Process Evaluation of Complex Intervention (Moore et al., 2019)



## The imp

# The importance of theory: mechanism of change of the intervention

**Evaluation of Process:** 

- The importance of Context
- Description of intervention:
   how and what has been delivered
- Sampling: all for important data and purposive sampling for indepth analysis

## **Process evaluation of complex interventions**

UK Medical Research Council (MRC) guidance

Prepared on behalf of the MRC Population Health Science Research Network by:

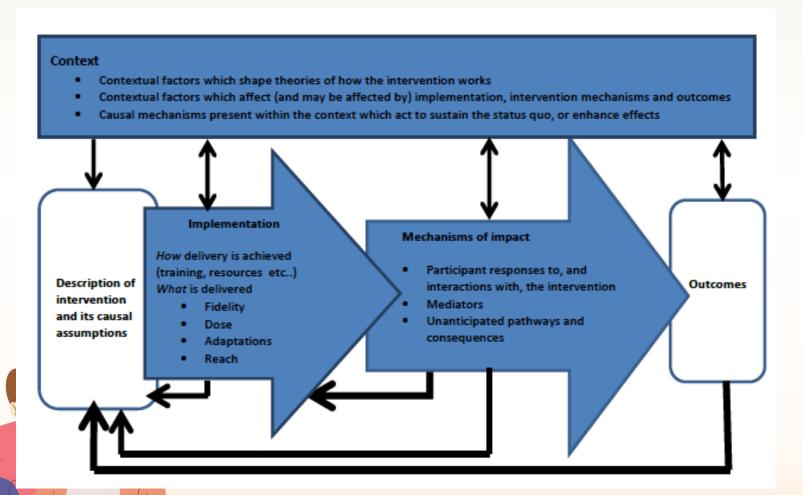
Graham Moore<sup>1,2</sup>, Suzanne Audrey<sup>1,3</sup>, Mary Barker<sup>4</sup>, Lyndal Bond<sup>5</sup>, Chris Bonell<sup>6</sup>, Wendy Hardeman<sup>7</sup>, Laurence Moore<sup>8</sup>, Alicia O'Cathain<sup>9</sup>, Tannaze Tinati<sup>4</sup>, Danny Wight<sup>8</sup>, Janis Baird<sup>3</sup>

1 Centre for the Development and Evaluation of Complex
Interventions for Public Health Improvement (DECIPHer), 2 Cardiff
School of Social Sciences, Cardiff University. 3 School of Social and
Community Medicine, University of Bristol. 4 MRC Lifecourse
Epidemiology Unit (LEU), University of Southampton. 5 Centre of
Excellence in Intervention and Prevention Science, Melbourne. 6
Institute of Education, University of London. 7 Primary Care Unit,
University of Cambridge. 8 MRC/CSO Social & Public Health
Sciences Unit (SPHSU), University of Glasgow. 9 School of Health
and Related Research (ScHARR), University of Sheffield.

# **Process Evaluation of Complex** Intervention (Moore et al., 2019) JCFCC



• Framework of Evaluation of Process



(Moore et al., 2019, p. 24)

# St. James' Settlement Cheering@Home Project



The Mechanism of Change of the Intervention

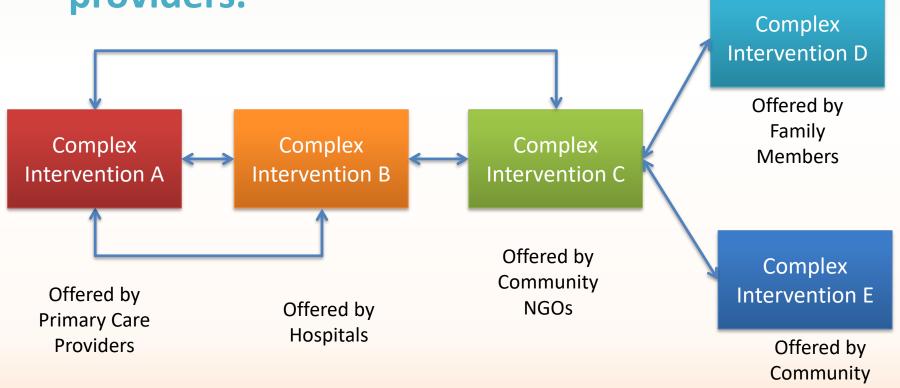
#### **Dying Role Theory** (Emanuel et al., 2007) Intervention Challenges Imapct Outcome Components Dying Roles Care Tasks Practical needs Practical tasks Needs met Personal needs Personal tasks Increased sense of control Relational needs Relational tasks Increased quality of life of patients and families Advanced illness Reduced guilt and **Broaden-and-Build Theory** complicated grief (Frederickson, 2004) of families **Emotional Challenge** Cheering Activities o Sadness Broadened Joy thinking-action Hopelessness Contentment repertoire Guiltiness Interest Built resources Love

# **Complex Intervention in a Complex Condition**



**Volunteers** 

 Complex intervention as part of Complex intervention offered by a system of care providers.



## **Evaluation**



- While intervention is complex, evaluation is even more complex
  - The purpose of evaluation: what works the best for patient and family?
  - The process of evaluation: what reduces the induced distress of evaluation? (shared record and relevant data collection only)

The use of findings: how can we improve the care?

# **Efficiency**



# Time Efficiency

- shorter duration
- Better expectation communication
- Better engagement skills to reduce testing out period
- reduction of components which are not leading to outcome



# **Efficiency**



- Resource Efficiency
  - Higher ratio of Useful Output / Total Input
  - Conservation of energy by reduction of unnecessary input such as filling form & statistics





# 6. Evaluation of the Project



# **Overview of Project Output**

賽馬會安寧頌

JCECC

Jockey Club End-of-Life Community Care Project

\*As at 31 December 2018



5,002

Patients and family members served

586

volunteers engaged and trained 36

elderly homes participated



8,192

health and social care professionals

2,256

professional and frontline staff of elderly homes



29,025

participants attended
1,377 community
education
programmes and
events

350,000+

views through
multi-media channels
(i.e. project website,
mini-movie and case
videos)

5,600,000

readership of
43 Newspaper reports
(i.e. press conference and regular newspaper columns)

## **Evaluation Framework and Methods**



Jockey Club End-of-Life Community Care Project

INPUTS



**ACTIVITIES** 



OUTPUTS (Proximal Effect)



**OUTCOMES** 

(Intermediate Effect)



IMPACT (Distal Effect)

Funding

Innovative Community EoLC Programmes

Beneficiaries served

**Patients QoL:** 

-Physical

- -Emotional & Social
- -Practical concerns

**Family Carers QoL:** 

- -Caregiver strain
  -Emotion
- -Family relationship
- -Complicated Grief

Patients and Family

carers:

 - ✓ unnecessary health and social care services

**Community:** 

-Cost effectiveness of service

Users Satisfaction
Survey +
Telephone
Interviews

Stakeholders Survey Pre-post-Followup Clinical Assessments

Patients:

Intake → 1<sup>st</sup> Month → 3<sup>rd</sup> Month

Family Carers:
Intake → 3<sup>rd</sup> Month → 2 months
post death

Health and Social Care Utilisation

**Change Within Patient** 

Difference from average patient

**Cost Effectiveness** 

### **Standardized Assessment tools**



**Patients** 



Integrated Palliative Care
Outcome Scale (IPOS)



Palliative care
Outcome
Scale



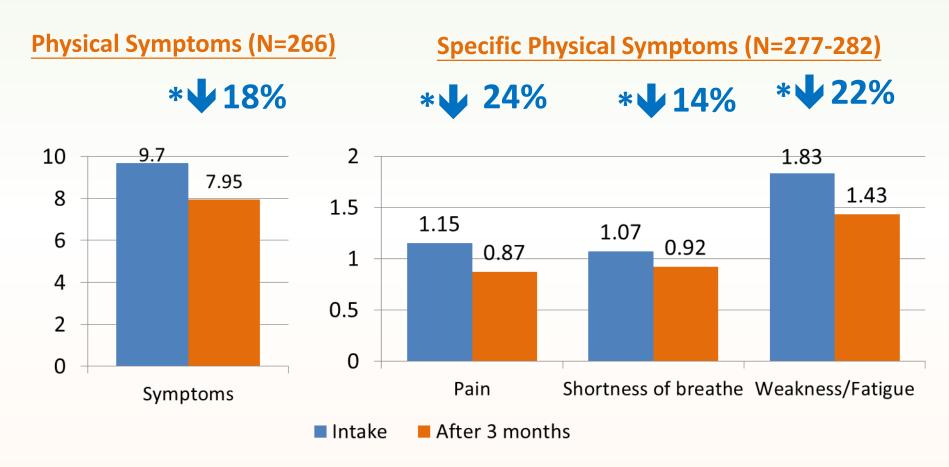
 Medical service utilization in the last 6 months of life

Family carers



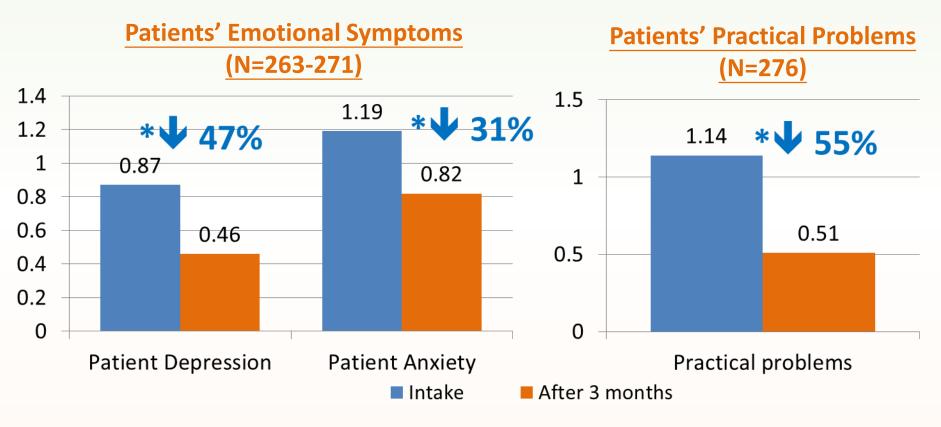
- 13-item Chinese version Modified-Caregiver Strain Index (C-M-CSI) (Chan, Chan, & Suen, 2013; Onega, 2008)
- Level of intimacy with patient
- Family anxiety (IPOS)
- 19-item Chinese inventory of complicated grief (Prigerson et al, 1995; Tang & Chow, 2017)





As measured by Integrated Palliative Care Outcome Scale (IPOS) of King's College
These analysis was based on 283 Patients have been assessed at intake and 3<sup>rd</sup> month
\*p<.05 for paired t-test; The percentages represent the % of changes of mean score between intake and after 3 months





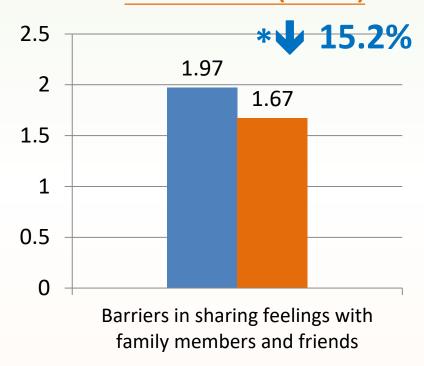
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\*p<.05 for paired t-test; The percentages represent the % of changes of mean score between intake and after 3 months



### **Spiritual distress (N=263)**



### Social barrier (N=256)

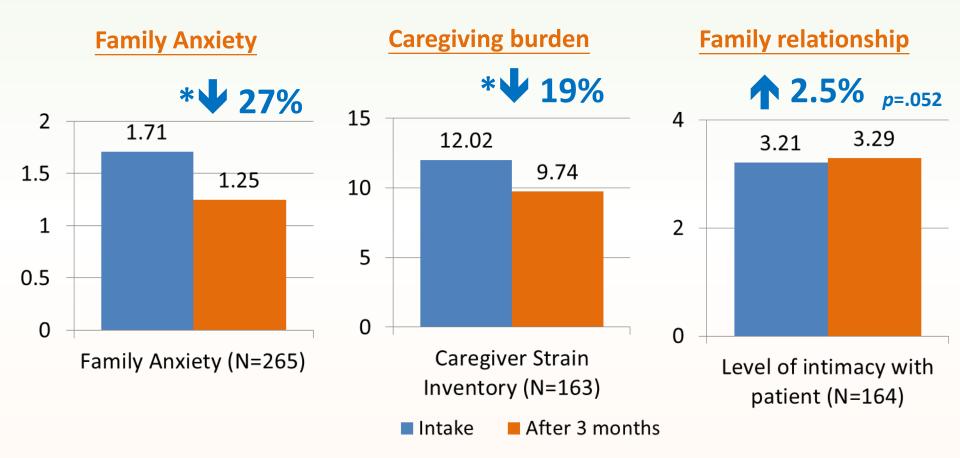


■ Intake ■ After 3 months

As measured by Integrated Palliative Care Outcome Scale (IPOS) of King's College These analysis was based on 283 Patients have been assessed at intake and 3<sup>rd</sup> month

\*p<.05 for paired t-test; The percentages represent the % of changes of mean score between intake and after 3 months



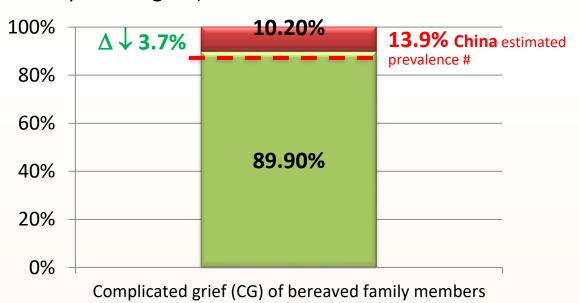


"Family anxiety" was based on the response from 265 Patients have been assessed at intake and  $3^{rd}$  month; caregiver strain and family relationship were based on the response from 164 caregivers with intake and  $3^{rd}$  month assessments \*p<.05 for paired t-test; The percentages represent the % of changes of mean score between intake and after 3 months



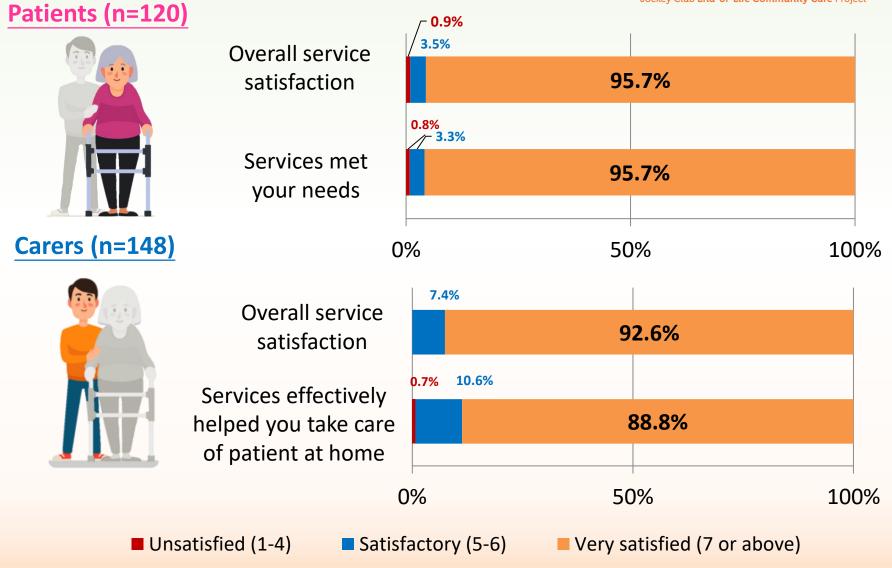
#### Bereavement outcomes of family members (N=166)

- High risk group (scored above 25 on the inventory of complicated grief)
- Low risk group (scored 25 or below on the inventory of complicated grief)



# Li, J., & Prigerson, H. G. (2016). Assessment and associated features of prolonged grief disorder among Chinese bereaved individuals. *Comprehensive Psychiatry, 66*, 9-16. doi:doi.org/10.1016/j.comppsych.2015.12.001

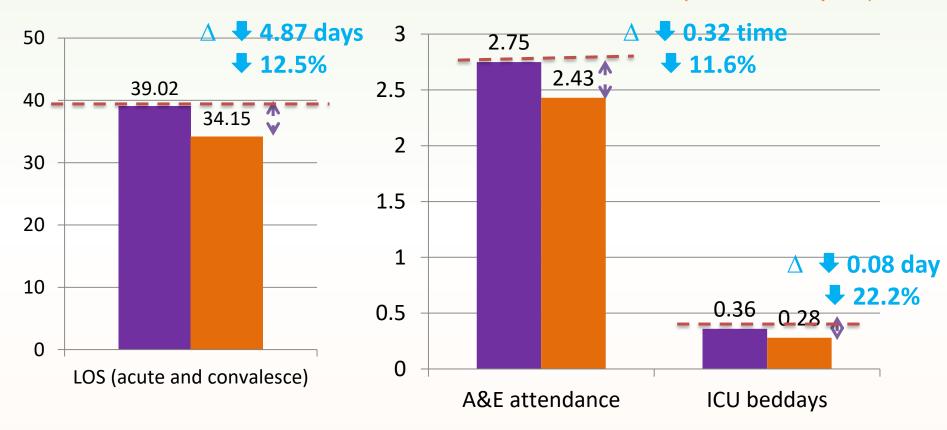




Note: Data collected between Jan 2016 and June 2020 is analysed

# Impact on Health Care Utilization of Patients





■ CDM (N=13783)

■ JCECC deceased patients with retrospective data from caregivers (N=221)

# Impact on Health Care Utilization of Patients



 Based on the calculation of the 777 patients served by our project from 2016 to 2018, JCECC...



Offered 3784
hospital bed days
for other needy
patients



Offered 62 ICU bed days for other needy patients



Reduced 249 A&E visits

# **Integrated Community End-of-Life Care Support Team (ICEST) Model**



Evidence-driven, stakeholder participatory process

Conduct systematic
literature review to
develop evidence-based
assessment &
intervention
recommendations

Systematic literature review

Participation of stakeholders

**Evidence from** service evaluations

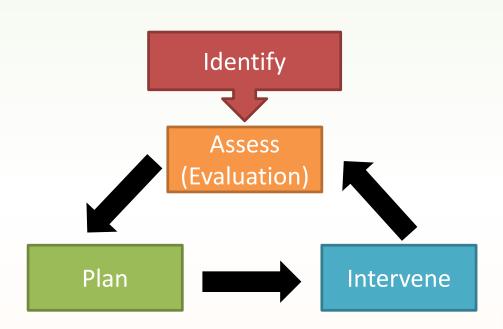
Consultations with
representatives of Food and
Health Bureau, Labour and
Welfare Bureau, Hospital
Authority, and Social Welfare
Department
Model building workshops with

NGO partners

Synthesis of findings and implications from evaluation of pilot community based EoLC service models

# **Integrated Community End-of-Life Care Support Team (ICEST) Model**







# Standardised Assessment for Need Based Intervention



 Needs assessment: Multi-dimensional assessments on patients and caregivers' needs



 Clinical: 3-Ps (physical, psychosocial spiritual, practical) assessment composed of need-level-stratifying indicators for care planning



 Outcome evaluation: repeated assessments to evaluate outcomes



# Technology-facilitated Real Time Assessment



Online assessment platform will be handy for indicating need areas in real time



Use of tablet for assessment



Real-time summary/report on assessment

# Multi-dimensional need assessment results <sub>賽馬會安寧頌</sub> with need levels



Jockey Club End-of-Life Community Care Project

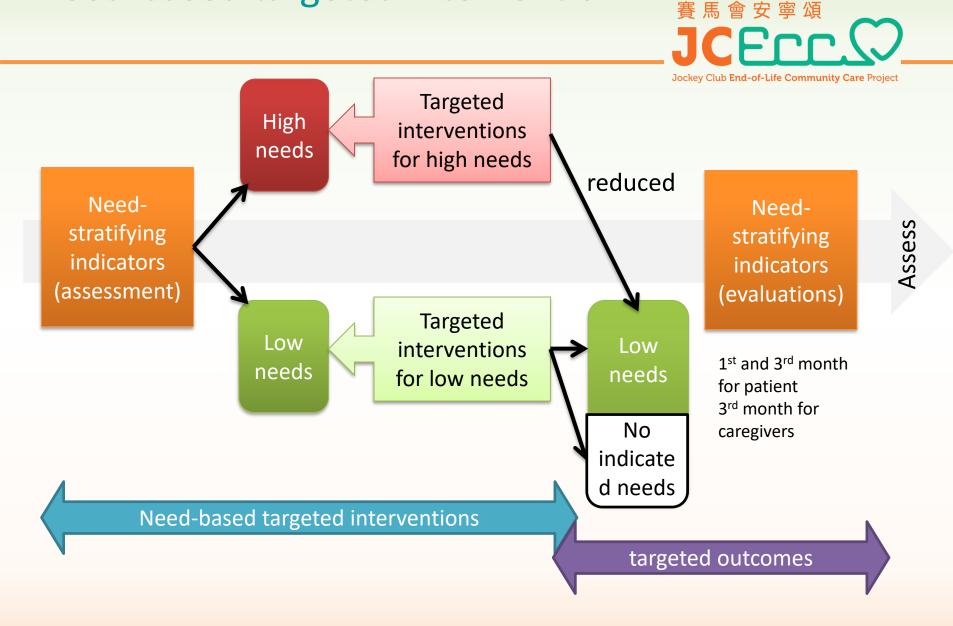
#### 病人定點評估結果

		PT0	PT1	PT2
評估日期		2019- 03-28	2019- 04-29	2019- 07-02
Physical	患者身體症狀	Н	Н	Н
Psychosocial	患者無慮情绪	L	L	L
	患者抑鬱情绪	L	L	L
	患者心靈支援	Н	Н	L
	患者社交需要	Н	L	L
	患者家庭關係促進需要	н	NO	NO
	患者照顧計劃需要	Н	н	NO
Practical	患者生活實際困難	н	L	L
	患者資訊需要	Н	L	Н

家屬定點評估結果

		第一次評估	第二次評估	第三次評估
		CG TO	CG T1	CG T2
評估日期		2019-03-28	2019-07-02	
Psychosocial	家屬抑鬱	H2	Ĺ	1
	家屬焦慮	L	NO	1
	家屬照顧計劃需要	н	Н	1
	家屬複雜性哀傷危機	L	L	1
	家屬複雜性哀傷	1	/	
Practical	家屬照顧壓力	н	NO	1
	家屬資訊需要	L	NO	

# Need-based targeted intervention



# Development of Intervention Recommendations



 Literature search on evidence-based clinical practice in palliative and EoLC and relevant practice guidelines according to the search strategy in Clinical Decision Support Tool developed for the IPOS items

van Vliet et al. BMC Medicine (2015) 13:263 DOI 10.1186/s12916-015-0449-6



#### GUIDELINE

Open Access

CrossMark

How should we manage information needs, family anxiety, depression, and breathlessness for those affected by advanced disease: development of a Clinical Decision Support Tool using a Delphi design

Liesbeth M. van Vliet<sup>1\*</sup>, Richard Harding<sup>1</sup>, Claudia Bausewein<sup>2</sup>, Sheila Payne<sup>3</sup>, Irene J. Higginson<sup>1</sup> and on behalf of EUROIMPACT

Full manual including references and evidence

Clinical Decision Support Tool for the interpretation of and response to Palliative care Outcome Scale (POS) scores for:

a. information needs

b. family anxiety

c. depression

breathlessness

(van Vliet, Harding, Bausewein, Payne, & Higginson, 2015)

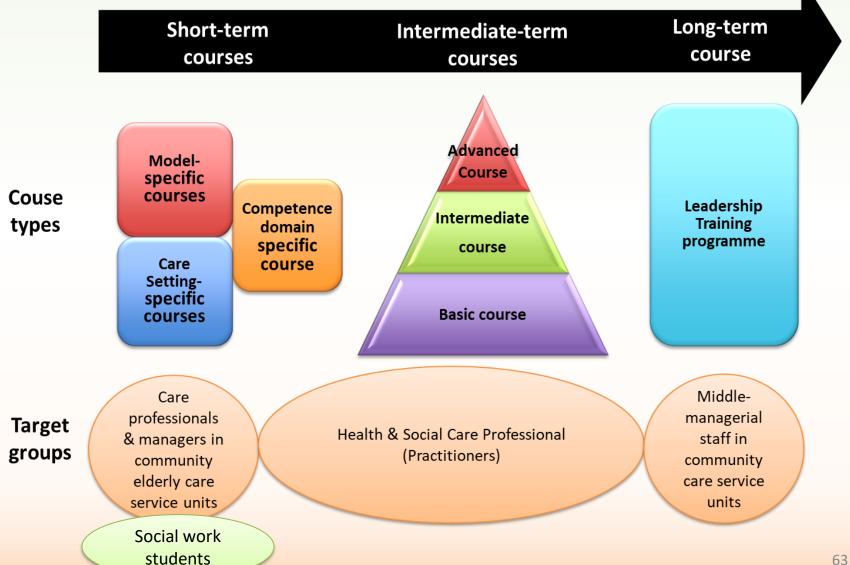
### **ICEST Model**



Jockey Club End-of-Life Community Care Project Death of HA identifies and refers patients Patient Identify ICEST engages patients and families; and Close case introduces services in 5 working days Notes: Carer No No Assessments on patients and family carers with indicated indicated declines standardized questionnaire on patient (Pt), family needs support needs Comprehensive 3P(Physical, Psychosocialcarers (CG). spiritual and Practical) assessment on Outcome Post-death brief patient and carer Follow-up Needs Evaluation assessment on assessment Evaluate the present family carers Intake: Intake form, Pt T0, CGT0 1 Evaluate the yes grief (1) As soon the Month 1: Pt T1 grief outcomes outcomes for patient's death, Month 3: Pt T2, CG T1 for caregiver at caregiver at 2 Death of (2) Before When it is deemed necessary by workers: Phase 4-6 months months postpatient? funeral. change questionnaire! post-death death (3) Right after (CG T2)1 funeral ves Needs Needs present present Discuss assessment results with patients & carers, set intervention priority Develop a Develop a Reach scheduled preliminary bereavement evaluation time? Refer out to bereavement care care plan with specialist Change of care phrases plan based on the results of services for (change between stable, unstable, bereavement risk grief complicated deteriorating, terminal)? factors, post-death assessment High need areas grief cases Low need areas: clinical taken into Changes in care plans Plan Assess the causes Provide assessment consideration (change of caring place or, and develop supportive care carers)? targeted and monitor intervention changes regularly Determine an integrated care plan jointly with Provide stratified levels of support patients and carers and set care goal(s) Regular review of care plan based on needs: Provide with patient and carers (1) Universal support to all bereaved immediate support according (2) Selective support to family members who need more support to expressed Provide targeted interventions for intended (3) Indicative support to those who needs Intervene outcomes, with considerations of patients and require specialist interventions carers' needs, preferences and care goals 62

# **Professional Capacity Building Programmes**





### 3-tier course structure



Jockey Club End-of-Life Community Care Project

Basic Course (6 hours)



#### E-learning courses (8 X 0.75 hour/Total 6 hours)

8 modules covering basic knowledge in EoLC competence domains Videos, self-reflection questions, pre-post course assessment by MCQ

#### Assessments

MCQ, courseend short questions

Intermediate Course (23 hours) E-learning courses (8 X 0.75 hours/Total 6 hours)



7 modules covering theories and latest evidence on effective practices in 7 EoLC competence domains

videos, readings, pre-post course MCQ tests



Small group Tutorials (3 X 3 hours/ Total 9 hours)



Group discussion, Application of knowledge, case sharing



Workshop (1 X 8 hours)



Lecture, group activities

#### Assessments

Examinations

Case reports

Self-reflection paper

Advanced Course (39 hours) E-learning courses (6 X 0.5 hours/Total 3 hours)



6 modules covering in-depth knowledge and latest evidence on ACP, Communication, Psychosocial care, bereavement care, self-care and multidisciplinary teamwork

videos, short questions, readings, pre-post course MCQ tests



Tutorials (12 X 3 hours/Total 36 hours)



Skill-building activities, role-plays, case discussion

**Assessments** 

Examinations

Case reports

Live demonstrations

Self-reflection paper

# **EoLC Competency Framework**



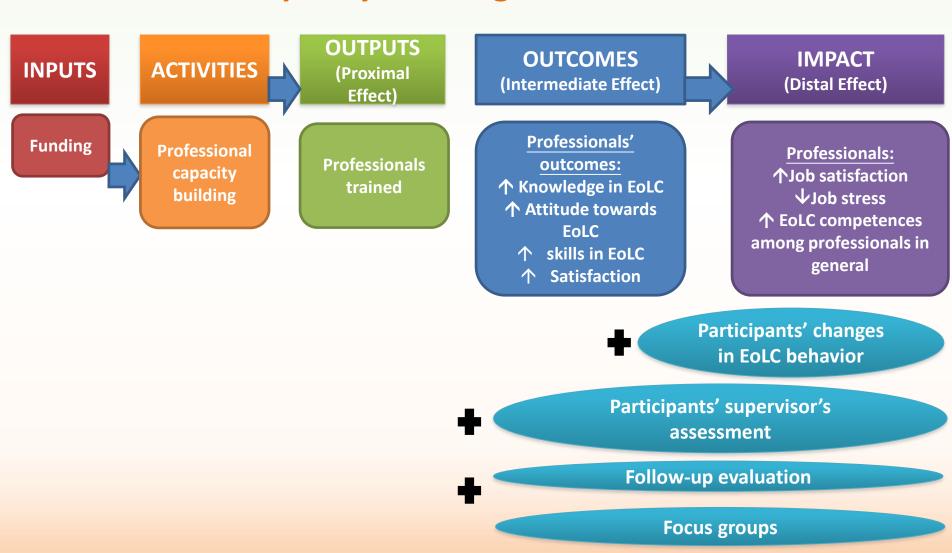
賽馬會安寧頌 安寧照顧多元效能框架



### **Evaluation Framework**

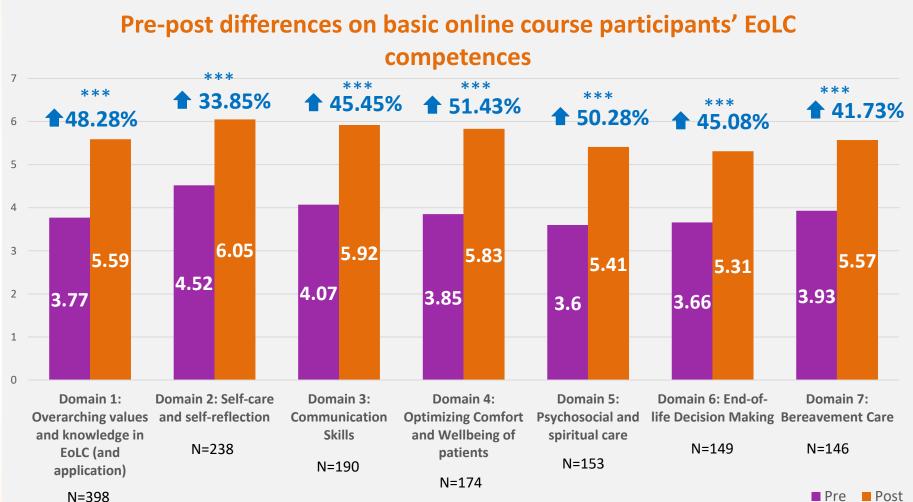


## **Professional Capacity Building Evaluation**



# **Project Outcomes**

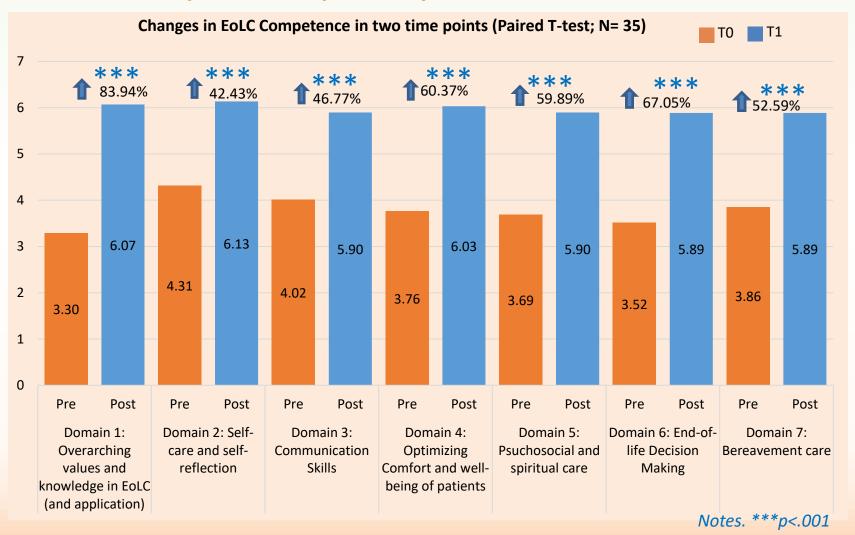




# **Project Outcomes**



## **35** students completed both pre- and post-evaluation





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- Moore, G., Audrey, S., Barker, M., Bond, L., Bonell, C., Hardeman, W. ....Baird, J. (2019). Process evaluation of complex interventions. Retrieved from <a href="https://mrc.ukri.org/documents/pdf/process-evaluation-of-complex-interventions/">https://mrc.ukri.org/documents/pdf/process-evaluation-of-complex-interventions/</a>
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- Li, J., & Prigerson, H. G. (2016). Assessment and associated features of prolonged grief disorder among Chinese bereaved individuals. Comprehensive Psychiatry, 66, 9-16. doi:doi.org/10.1016/j.comppsych.2015.12.001

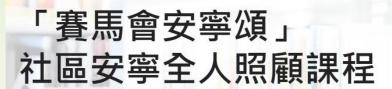


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- Onega, L. L. (2008). Helping those who help others: The Modified Caregiver Strain Index. American Journal of Nursing, 108(9), 62-69.



van Vliet, L. M., Harding, R., Bausewein, C., Payne, S., & Higginson, I. (2015). How should we manage information needs, family anxiety, depression, and breathelessness for those affected by advanced disease: development of a Clinical Decision Support Tool using a Delphi design. BMC Medicine, 13.





#### 現正接受報名

「賽馬會安寧頌」社區安寧全人照顧課程 - 基礎單元

內容簡介

「賽馬會安寧頌」社區安寧全人照顧課程 - 進階單元

歡迎來到「賽

內容簡介

「賽馬會安寧頌」社區安寧全人照顧課程 - 高階單元

內容簡介

單元大綱



QR code:

https://foss.hku.hk/jcecc/online/learning



# **Questions and Answers**