

Collaborative Care in Primary Health Care Focus on Management of Depression

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Abstract:

Depression often goes undetected and undertreated in primary care settings. Collaborative management of mental disorders; such as depression, with the involvement of a multidisciplinary team in primary care, is an effective solution to improve depression treatment. This study aimed to understand collaborative care for depression management in primary health care. This was in order to evaluate contemporary conceptions of Collaborative Care (CC) for primary medical problems. This study examined numerous studies from the Pubmed Central International database; including, a textbook, a review paper, a commentary, and an editorial. The CC approach has five fundamental elements: patient–centered team care, population–based care, target measurement–based therapy, evidence–based care, and accountable care. The CC approach uses a "patient education manager," to involve patient care decision–makers, monitor results, conduct follow–ups, support the management of primary care physician antidepressant therapies, and coordinate services from numerous providers. The conclusion from this review is that CC is a holistic, multidisciplinary, and proactive treatment model to manage depression. Effective treatment of depression utilizing a CC model could therefore have major benefits; including, better clinical improvement, improved patient quality of life, and cost–effectiveness.

Keywords: collaboration, health services, medical care, mental disease, primary care

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Introduction

Mental illnesses are common in primary health care; especially depressive ones. However, they are not always recognized nor properly treated. Depression is a major health concern, and is predicted to be the second-largest cause of global disability by 2020. Moreover, depression is the most significant health condition. Yet, in the management and treatment of many illnesses, health systems often function passively. This is partly due to the lack of detection and under-treatment of depression in primary care. In addition, research has indicated that doctors in primary care do not recognise 30.0 to 50.0% of depressive people. ^{2,3}

Many primary care doctors believe that the management of physical sickness is their primary obligation, With most having no awareness of mental illnesses; which are usually deemed outside of the scope of their services. Furthermore, interviews and emotional problems typically take longer, contrasting to the current state of affairs, when efficiency tests and cost reductions are conducted quickly. Therefore, primary care physicians are often unable to offer all required care during an outpatient appointment within a limited period. The need to support primary care doctors in treating depression utilizing a collaborative approach is therefore an acceptable strategy. 1,2

Collaborative care (CC) is a systematic way for people with chronic diseases to manage therapy and medicines. 4,5 CC is a complicated strategy that tries to foster intimate working connections among members of the caring team, in order to provide high-quality care to patients in addition to improving both mental and physical health outcomes. 6,7 CC incorporates more than one health care worker, working together to increase communication and collaboration, via the division of labor principle. 7,8 Collaborative mental health care; such as depression, is an effective way to increase depression treatment, with the engagement of multidisciplinary teams in primary care. Substantial evidence

has suggested that collaborative therapy is twice as effective and economical for patients with depression in more than 80 randomized controlled studies (RCTs).^{4,9,10} Therefore, the purpose of this review is to understand in detail collaborative care as depression management in primary health care; as in to how it is implemented, in addition to the barriers of its implementation.

Material and Methods

Employed literature was obtained from online search engines; such as, the PubMed Central International database, Science Direct, Google Scholar, including a textbook, a review paper, a commentary, and an editorial, the World Health Organization (WHO) website, and the Ministry of Health of the Republic of Indonesia. The keywords were: collaborative care or collaboration care, primary health care or primary care, management or treatment or therapy, and depression or mental health. Finally, we obtained 38 English and Indonesian literatures, with a level of evidence of 1A–2C. The level of evidence was determined based on the Oxford Center for Evidence-based Medicine Level of Evidence classification.¹¹

The concept of collaborative care

CC is an involvement in therapy for people with chronic diseases; such as, depression, diabetes and cardiovascular disease, within primary care settings, utilizing a systematic technique for treatment and medication. Collaborative care is a complex intervention; consisting of several active components, and requiring the enrolment of various professional actors from different sectors. It strives primarily to build a firmer working relationship between primary and specialty health care members (family doctors or practitioners and nurses). The CC teams are integrated into primary care to improve the quality of care and outcomes of illnesses. CC supports four main components: a multi-

professional approach to patient therapy, a structured management plan tailored to the needs of patients, proactive follow ups, evidence-based treatments, and processes for improving inter-professional communication; such as, routines and regular team meetings or joint records.⁴⁻⁸

The CC paradigm includes five fundamental elements: caring for patients, population-based therapy, measurement-based treatment, evidentiary treatment, and responsible care.5 There are 6 important components in CC that assist the programs to operate appropriately. These are summarized in Table 1. Each component has its own role and task, and they all work together to increase communication by implementing the divisions of the labor paradigm. The overall purpose of this collaboration is to provide patients with high-quality care, while also improving mental and physical health outcomes. 6,7,12 Unlike the general approach model, the collaborative care model uses patient training, involvement in treatment decisions, monitoring outcomes, monitoring, the management of primary care provider (PCP) antidepressant treatment, and the coordination of multi-provider services (such as, consultation with a psychiatrist and referral if clinically indicated).13

Collaborative care for depression management in primary health care

The prevalence of depression cases in primary health care

Depression is a mood disorder that is quite frequently encountered, and approximately 3.0–5.0% of the population will experience depression at some point in their lives. It may described as: feelings of sadness, loss, or irritability. In addition, a depressed individual will tend to experience cognitive distortions; such as, self-criticism, guilt, feelings

of worthlessness, low self-confidence, pessimism, and hopelessness. Furthermore, there is a feeling of laziness, a lack of energy, psychomotor retardation, and the withdrawal from social relationships. 14,15

Primary health care (PHC) is a basic health care service, based on methods, sciences, and technologies. Additionally, due to their entire participation and affordable costs for the communities and the State, they are acceptable to both individuals and families in the community in maintaining all development levels in a spirit of self-confidence and self-determination. 13,16

The prevailing rate of depression was 10.4%, based on International Statistical Classification of Disease and Related Health Problem or ICD 10, research carried out by WHO in PHC, which comprised f 26,000 patients in 15 health centers globally.¹⁷ The Republic of Indonesia Health Ministry Data shows that for people aged 15 years and older, the prevalence of depressive disorders is about 6.2%. The annual prevalence for major depressive disorder ranges from 5.0 to 13.0% for adults in primary care clinical settings and 6.0-9.0% for older people.18 Adults have a lower prevalence of depression than teenagers. The intensity; however, was greater in adults, who were at the highest risk of suicide. Up to 50.0-70.0% of people having committed suicide had seen a primary care physician during the previous month, and 39.0% had seen a physician within one week of their death. 19 Less than 15.0% of patients receive adequate treatment to achieve remission with an accurate diagnosis of depression, whom had access to primary care. By sending patients to specialized mental health facilities, PCP continues to face barriers. Furthermore, doctors, doctor assistants, and nurses often have to deal with time or inadequate training to deal with mental health issues effectively.20

Table 1 Collaborative care components along with detailed job descriptions¹

No.	Component	Job Description		
1.	Patient	 a. The most important person in the CC team. b. Works with the PCP and the Behavioral Health Provider (BHP)/Care Manager (CM). c. Health, symptoms, and working changes report. d. Set objectives for team treatment. e. Monitor the clinical progress of the outcome measures reported by the patient. f. Asks and addresses care problems. g. Understands therapeutic plans; including, behavioral treatments objectives and drug names/doses. 		
2.	Primary Care Provider (PCP)	 a. Practitioners general. b. Monitor all elements of the treatment of the patient. c. Presents a "warm handoff" CC Team. d. Common psychiatric diagnoses. e. Recommends psychiatric medicines as necessary. f. Therapeutic adjustments in cooperation with BHP/CM, psychiatric consultants, and others. 		
3.	Behavioral Health Provider (BHP)	 a. Pflege workers, clinicians, or those with special mental health know-how. b. Works with PCP closely and assists in managing primary care patient case-load. c. Encourages the involvement and training of patients. d. Conducts initial structured assessments and follow-ups. e. Tracks therapy responses, systematically through behavioral health actions. f. Provides or refers to other BHPs, for these services for short, evidence-based behavioral therapies. g. Supports PCP drug management; including: -Patient aid in identifying where drugs can be received. -Promoting and encouraging adherence to medicines. -Involves PCP concerns regarding medicinal products or side effects and adjustment plans for PCP visits. h. Checks systematic, weekly psychiatric consultant for problematic patients. i. Enables referrals to other services as necessary (such as, the treatment of substance abuse, specialized care, and community resources). 		
4.	Consultant psychiatry (CP)	 j. Prepares the patient for the avoidance of recurrence. a. Psychiatrist. b. Supports PCPs and BHPs, delivering frequent consultations (several times) on the work-load of primary care patients as required. c. Focuses on patients who do not improve, and who need to be treated or strengthened. d. Available in-person, telemedical, or referral services for individuals who are complex or consistently unwell. e. Provides primary care provider and BHP education and training, when applicable. 		
5.	Other behavioral health providers	 a. Chemical dependency counselors or other licensed health experts may be included. b. To provide expert advice/psychotherapy, based on evidence (individual or group). c. Promoting behavioral health therapies; focusing on behavior. d. Provide advice/treatment on chemical dependence. e. Facilitate further services of mental health or drug abuse. 		
6.	Other significant partners to be part in team building	a. CEO, managers, physicians, clinic managers.b. Leaders/champions in medical and mental health.c. Medical assistants and front desk employees.		

PCP=Primary Care Provider, BHP=Behavioral Health Provider, CP=Consultant Psychiatry, CC=Collaborative Care, CEO=Chief Executive Officer, CM=Care Manager

Depression management in primary health care

The United States Preventive Services Task Force, and The National Institute for Health and Care Excellence of the United Kingdom, advises that routine depression screening in primary health care be done to assist accurate diagnose, effective treat and monitoring of depression. ^{21,22} In a study of the Indonesian population, in 2021, it was concluded that it was highly crucial to recognize and prevent depression in primary health care at an early stage. ²³

The Beck Depression Inventory, the 20-item Center for Epidemiological Studies Depression Scale (CES-D), the 9-item Patient Health Questionnaire (PHQ-9), the Quick Inventory of Depressive Symptomatology–Self-Records (QIDS-SR), and The Depression, Anxiety, and Stress Scale (DASS-21) are some major instruments used for depression screening. In all surveys' high sensitivity and specificity were demonstrated. The most extensively instrument used in primary care is the Patient Health Questionnaire (PHQ). Furthermore, PHQ is a free tool and is publicly available. A 17 validation study with meta-analysis demonstrated that the PHQ-9 is suitable in various environments, nations, and populations. The PHQ-9 had a sensitivity of 80.0% and a specificity of 92.0%, in 14 studies with 5,026 participants.

The implementation of collaborative care for depression management in primary health care

Contributions from a whole team will be included for a period of CC implementation. Implementation of CC for depressed patients in primary health care includes; assessment, eliminating differential diagnoses and identifying provisional diagnoses, administering treatment, conducting follow-ups and adjusting treatment to achieve therapy targets as well as completing treatment and preventing recurrence. Each team member has their own role in the implementation of CC (Table 2). Figure 1 shows the interaction between team members. The PCP, CM, and psychiatrist consultants are the respective team members.

Therefore, every activity requires to be accomplished as part of a shared workflow: when, where, and by whom. ¹² Psychiatrists are important members of the CC team. Additionally, psychiatrists play several roles as team members; including, consultants (both direct and indirect), educators, and provide clinical and team leadership. Some of the characteristics of successful psychiatric consultants are being flexible, team-oriented, willing to tolerate distractions and enjoy educating others. ²⁶

Good implementation of collaborative care on management of depression; especially in primary health care, has several benefits for both the patient and health professional. An RCT study found that one benefit is a rapid reduction in depression scores, as compared to ordinary treatment.^{27,28} A further meta–analysis of comorbid, depressed people with multiple chronic medical problems found that intervention with CC lead to primary care patients, with multiple medical conditions, to better depression and quality of life.²⁹ Research conducted by Unützer et al. recorded more than 70 randomized controlled trials of collaborative care, which demonstrated that this approach has a better and more cost–effective clinical improvement effect.^{4,27}

The barriers of the implementation of collaborative care for depression management in primary health care

In practice, collaborative care has several barriers that may be faced; however, this does not mean that the CC model cannot be implemented. Good barrier management will result in good implementation as well. Some studies that have been carried out may be used as learning materials for more mature preparation. According to Katon and Unutzer, successful implementation of the model will include overcoming hurdles at the organizational level, in clinical practice, and via creative finance to support the adoption of team-based care. Katon and Unutzer also

Table 2 The implementation process of collaborative care management in depression in primary health care¹

No.	Implementations	Components	Roles
1.	Assessment: Identifies the major complaints relating to physical, psychological, functional, and safety problems.	Patient	Participates in symptoms and function evaluation; which includes: examining and screening tools and offering informed collateral consent from health care providers or family/friends. Supplies the necessary information. Questions about security.
		PCP	Identifying probable depressive illnesses is the primary responsibility and generally uses basic screening; such as PHQ-9. Assess safety and coordinates security problems with BHP.
		BHP	Finishes a complete evaluation; looks for information on depression-related functional impairments; gathers collateral information. Safety evaluation.
		СР	In the case of more complex presentations indicators, expands the psychiatric difference diagnosis and provides BHP options for more diagnostic information, through evaluation or collateral information.
2.	Differential diagnosis and tentative diagnosis identification: Exclude contributions to health problems and illnesses associated to substances	Patient	Extra information by physicians, friends, mental health experts, family members, and discovers physical and chemical issues in the assessment team (e.g., laboratory, imaging, specialist referrals). Reveals further psychological and prior therapeutic issues; enables coordination with other medical professionals or psychiatrists; participating in evaluations; control of symptoms.
		PCP	The key role of the present complaint submission in assessing likely etiology. Carries out a full diagnostic differential and work diagnosis of depression, inspection labs, tests, and health consultations if necessary, and coordinates therapy with other health and mental health experts. BHP coordinates for differential diagnosis.
		ВНР	Has a vital role to play in the registration and association of physical symptoms with PCP to be evaluated. Consideration and co-screening and psycho-social evaluation; gathers further information; aids PCPs by coordinating care with other physician providers; helps clients to comply with medical advice. PC consultation to explain diagnosis as necessary.
		СР	Develop medical differentials if necessary; more testing is recom- mended. Excludes differential diagnosis; makes a temporary diagnosis.
3.	Medication: Create an initial therapy plan that is consistent with the patient's treatment goals, and is suitable for the biopsychosis of a unique presentation.	Patient	Participates actively in exploring therapy choices and developing an initial treatment plan. Speaking about the treatment strategy, there are voices. Following the initial advice on therapy, he discusses
		PCP	challenges and concerns as treatment develops. Establish and maintain a therapeutic alliance; inform patients about the components of the treatment plan,; especially the use of drugs and other medical treatments, Stresses the importance of addressing depression psychosocial players and other problems; such, as chronic pain, and of closely collaborating with the BHP; identify and assess medical treatment goals and monitor advancements.
		ВНР	Establishes and maintains a therapeutic alliance, focuses on crises management and safety planning strategies, evaluates the full treatment plan with the patient and addresses issues and issues, provides brief actions to address co-morbid mental health and to promote self-management of chronic pain (e.g., disability, vocational rehab, social services, chemical dependency, additional psychotherapy).

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Table 2 (continued)

No.	Implementations	Components	Roles
		CP	Resource for mental comorbidity diagnosis and treatment, informs planning for treatments, supports the plan for safety, and advice for medication and conduct management.
4.	Therapy monitoring and adjustment to accomplish therapeutic goals: Monitoring progress, using standardized measuring tools every two to four weeks (e.g., PHQ-9).	Patient	Notify drug side effects treatment team or any treatment hurdles or concerns, revises the CC team therapeutic strategy if required.
		PCP	Retrains overall patient care duty. Adjusts the tolerance of psychotropic medicine (i.e., managing side effects) or lack of efficacy when required. Monitoring of medical or substance use contributions conditions.
		ВНР	Provides behavior interventions, monitors the progress of patients' therapy, adherence to treatments and psychosocial treatments, facilitates communication between team members, continuing needs assessment, and performing indicated references (disability, vocational rehabilitation, social services, chemical dependence, and additional psychosis).
		CP	Regular psychiatric case reviews gives further suggestions for modifications in treatment for patients who do not improve as predicted, and for people who do not improve; despite the change in treatment can carry out direct patient reviews (in person or by telemedicine).
5.	Completing treatment and relapse prevention: The reciprocal preventive plan should capture the patient's important treatment measures. This should involve beneficial medical and psychological techniques.	Patient	Identification of early warning signals, routine monitoring of such signs, family members, or other help, where possible.
		PCP	Monitors the next stage of antidepressant treatment, and takes into account the necessity for antidepressant maintenance management. Considers long-term effects of medication.
		ВНР	Provides psychoeducation on depression recurrence. Assists patients in building a reoccurrence prevention plan that identifies and summarizes depression prevention measures, early warnings, and actions to be taken when symptoms of depression get worse. Monitor adherence to medications, behavioral activation measures, and other approaches to prevent reoccurrence of depression. Strengthen the application of patient behavioral policies.
		CP	Assists in assessing maintenance management needs for antide- pressants. BHP helps detect other lingering concerns; particularly for mental health services, that have not yet been handled or forwarded.

PCP=Primary Care Provider, BHP=Behavioral Health Provider, PHQ-9=9-item Patient Health Questionnaire, CP=Consultant Psychiatry, CC=Collaborative Care

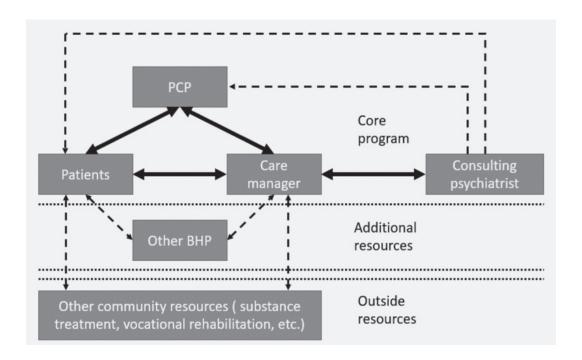


Figure 1 Interaction between collaborative care team members.¹

stressed the need of including communities in long-term sustainability planning initiatives. ^{30,31} Below are presented implementation barriers, which are categorized as: clinical barriers, organizational barriers, primary care physician practice orientation, and financial: ^{25,31}

a. Clinical barriers

Clinical hurdles include, the provider's failure to understand therapeutic directives and measuring-based care and distinguishing physical symptoms from mood-related concerns. Communication focused on patients can eliminate the barriers, by better understanding of the patients' medical issues; thus, increasing the quality of treatment and results. Barriers to care at patient levels include: stigmatizing treatment attitudes and inadequate communication between patients and providers. Based on the study design for the use of collaboratory care in brittany et al. Community health centers, depression and anxiety treatment recommend that the initiation of CC is essential to receive proper training and preparation. In addition, one

of the barriers to the implementation of this strategy is the shortage of resources within health services.³²

b. Organizational barriers

Organizational obstacles to the implementation of collaborative care include: impediments to the delivery of care at the system level. Primary care organizations are only permitted to spend a limited amount of time on extensive assessments of mental health issues. The protection of historic privacy as well as the fear of an invasion of privacy have created hurdles to sharing information among primary and mental health professionals. This is further compounded by confusion over whom is accountable for treating a patient. Furthermmore, a lack of workers educated in evidencebased interventions leads to limited access to healthcare.³³ This is exacerbated by the number of mental health workers whose proportions are not evenly distributed in all regions; especially in rural areas where there are almost no qualified health workers. This is a problem in almost all parts of the world.34 So, this makes it hard for primary

healthcare workers to refer their patients if the need arises. The local government's role as policymakers; especially in health policies, can also contribute to the success of mental health. 35-37

c. Primary care physicians' practice patterns

The third barrier is primary care practitioners' behaviors, which considers the detection and treatment of depression to be the responsibility of mental health professionals, as part of their clinical practice or depressive medication.³⁸ Unfortunately, in some countries, health workers that work in mental health primary services have multiple tasks in concern to their job, and do not focus on mental health services.^{36,39}

d. Financial

The term "financial barrier", to implementing collaborative care" refers to finance and reimbursement concerns²⁵; wherein, there is a lack of funds to carry out screening for depression and collaborative management. Both depression screening and management maintenance involve the investment of additional costs, and there is no source of funds for this activity unless it is supported by research funds.²⁵

Conclusion

CC is a holistic, multidisciplinary, and proactive treatment model to manage chronic diseases; in this case: depression. Depression is a mental disorder that is often lacking in detection and treatment in primary care settings. Effective treatment of depression, with the CC model, could therefore have major benefits; including, better clinical improvement, improved patient quality of life, and cost-effectiveness.

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Conflict interest

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