

ORIGINAL ARTICLES

Depression Treatment in Primary Care

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Background: Depression costs the United States \$40 billion annually. Primary care physicians play a key role in the identification and treatment of depression. This study focused on the treatment options recommended by physicians and whether physicians were following the recommended treatment guidelines.

Methods: We recorded treatment recommendations by examining charts for all patients with newly detected depression. The patients were from 44 family medicine practitioners and 23 general internal medicine practitioners in a Midwest university medical center setting.

Results: For both medical specialties combined, pharmacotherapy was the most widely used intervention (recommended for 52% of patients), whereas psychotherapy alone was the least frequently used intervention (recommended for 4% of patients). Family medicine practitioners recommended combination treatment (pharmacotherapy and psychotherapy) more frequently than did general internal medicine practitioners ($P = .022$), and female physicians recommended combination treatment more frequently than did male physicians ($P = .010$).

Conclusions: Pharmacotherapy was found to be the most widely used treatment despite current evidence-based recommendations. Barriers to effective treatment plan are discussed. The implications for mental health interventions, combination therapy, and cost offset are also discussed. Further research exploring the negotiation process during the patient-provider encounter would shed light on patient and physician factors influencing treatment decisions. (J Am Board Fam Pract 2005;18:79–86.)

Depression is the world's fourth most prevalent health problem,¹ costing the United States \$30 to \$50 billion in lost productivity and direct medical costs each year.^{2,3} Persons who are depressed miss work because of illness at twice the rate of the general population.⁴ Health service costs are 50% to 100% greater for depressed patients than for comparable patients without depression. These increased costs are caused by higher medical utilization, not by specialty mental health care.^{5,6} Additional costs associated with depression include impaired concentration, failure to advance in educational and vocational endeavors, increased sub-

stance abuse, impaired or lost relationships, and suicide.^{7,8}

Primary care providers are the sole contacts for more than 50% of patients with mental illness and have thus been described as the de facto system of treatment for mental health.^{9–11} Reliable estimates suggest that symptoms consistent with depression are present in nearly 70% of patients who visit primary care providers. Approximately 35% of patients who are seen in primary care meet criteria for being diagnosed with some form of depression, with 10% of patients suffering from major depression.^{12–14} The prevalence of major depression is 2 to 3 times higher in primary care patients than in the overall population because depressed persons use health care more frequently.^{15,16} Therefore, because of the prevalence of depressed patients in primary care, physicians need to play an active role in effectively assessing, diagnosing, and treating depression.

To ensure effective treatment of this major health issue, the Agency for Health Care Policy and Research (AHCPR), the Veterans Health Administration/Department of Defense (VHA-DOD),

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and the American Psychiatric Association (APA) have published evidence-based recommendations for depression treatment. In summary, pharmacotherapy and psychotherapy (combination treatment) are recommended when treating moderate to severe depression. When the depression is mild to moderate and the patient is motivated to work on psychological/ interpersonal issues, psychotherapy is warranted.^{13,17,18} Schulberg et al (1999) concurred with the AHCPR guidelines and concluded that referral to a mental health specialist should be a part of depression treatment, especially when patients exhibit severe depressive symptoms (eg, suicide risk; comorbid medical, psychiatric, or substance use disorder; or failure to respond to appropriate treatment).¹ However, in an overview of the outpatient treatment of depression between 1987 and 1997, Olsson et al¹⁹ found that, of those treated for depression in 1997, 79.4% received pharmacotherapy, 60.2% received psychotherapy, and only 48.1% received combination therapy.

The purpose of this study was to determine whether local physicians were following the guidelines described above and to explore differences between certain groups of physicians. Therefore, the study sought to answer the following questions: "What are providers recommending as treatment for depression?" and "How do recommended treatments differ between family medicine and general internal medicine physicians and between male and female physicians?" It was hypothesized, in concurrence with past research, that pharmacotherapy would be the most frequently recommended treatment by all physicians. It was also hypothesized that family physicians would be more likely than general internal physicians to prescribe a wider variety of treatments, including psychotherapy treatment in combination with medication. Finally, based on research showing gender differences in the psychosocial skills of physicians,^{20,21} it was hypothesized that female physicians would prescribe alternatives to pharmacotherapy more often than male physicians.

Methods

Procedures

All family medicine (n = 96) and general internal medicine physicians (n = 68) affiliated with a university medical center were initially identified as potential participants. A search of the centralized

patient record system identified patients of these physicians who had been diagnosed with depression (based on ICD-9 codes) and who were seen between April 2000 and April 2002. During this study period, 78 of the 164 resident and faculty physicians (53 family medicine and 25 internal medicine) diagnosed patients with a new case of depression. All resident physicians were excluded from the study because of the possible influence of their attending physicians. The final sample of physicians consisted of 44 family medicine (FM) physicians and 23 internal medicine (IM) physicians (27 women and 40 men). The Institutional Review Board of the University of Nebraska Medical Center approved the study in June 2002.

To avoid any chart abstraction bias, we used all the charts of patients diagnosed with depression. A total of 2401 patients were identified. Because we focused only on newly diagnosed patients with uncomplicated depression, we excluded patients who had been treated for depression within the previous 6 months and those with comorbid anxiety and other related disorders.

The research assistant reviewed the charts of the remaining patients (n = 580) and recorded demographic information on each patient (age, sex, race, and marital status). Patient identifying information was not recorded. The research assistant also used the dictated patient record to identify the patients' chief complaint, the presence or absence of symptoms related to depression (sleep, interest, guilt, energy, concentration, appetite, mood, psychomotor changes, suicide), any medications prescribed for mood disorders, the patients' insurance source, the ICD-9 diagnosis code used for the visit, and the recommended treatment. These treatments were grouped into 1 of 7 separate categories (pharmacotherapy, psychotherapy, pharmacotherapy + psychotherapy, counselor-recommended pharmacotherapy, watchful waiting, support group, or other). Because less than 5% of the patients were grouped into the "watchful waiting" and "support group" categories, these groups were combined with the "other" category for analysis.

Statistical Analysis

The research questions for this study concerned the physicians' treatment recommendations and how these recommendations might differ between FM and IM physicians and between female and

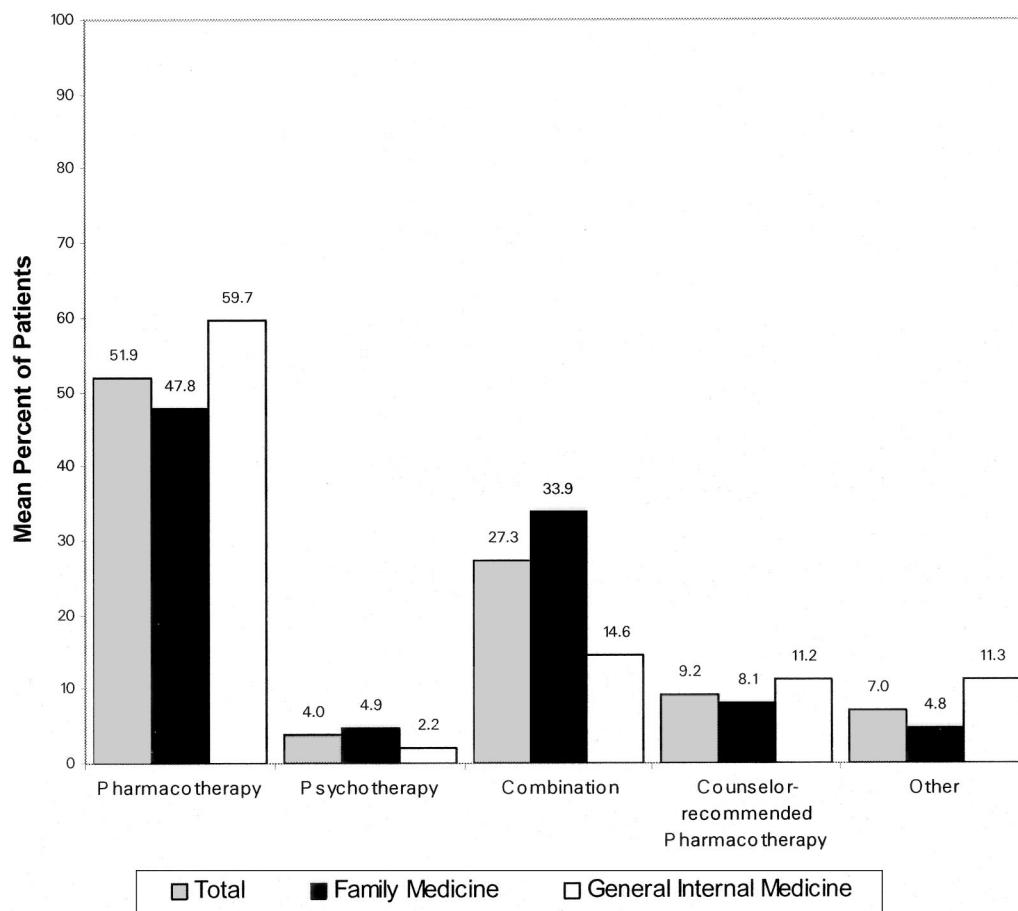


Figure 1. Mean percentage of patients who were recommended each treatment, by physician specialty.

male physicians. Thus, the primary unit of analysis was the physician rather than the patient. The outcome variable was the percentage of each physician’s patients who were recommended each type of treatment.

Mixed method analyses of variance were used to determine whether the percentage of patients who were recommended for each of the treatment types interacted with medical specialty or gender of the physician.

Results

The charts of 580 patients from 44 FM physicians and 23 IM physicians (27 women and 40 men) were reviewed. The number of eligible depression patients for each physician during the 2-year study period ranged from 1 to 54, with a median of 7.

As hypothesized, the primary care physicians as a whole initiated pharmacological interventions more frequently than any other treatment. In particular, the physicians prescribed pharmacotherapy

for an average of 52% of their newly diagnosed depressed patients, combination treatment (pharmacological and psychological) for an average of 27% of the patients, and psychotherapy alone for only 4% of the depression patients (Figure 1).

We found a significant interaction between recommended treatment and physician specialty [$F(4, 167) = 3.5, P = .02$]. FM practitioners recommended combination treatment significantly more often than IM physicians. On the other hand, FM and IM physicians did not differ in their recommendation of psychotherapy alone, pharmacotherapy alone, counselor-recommended pharmacotherapy, and other treatments.

Consistent with the last hypothesis, female physicians suggested combination therapy significantly more than their male counterparts ($P = .01$; Figure 2), whereas male physicians suggested pharmacotherapy significantly more often ($P = .02$). Despite these differences, the frequency with which male and female physicians recommended psychother-

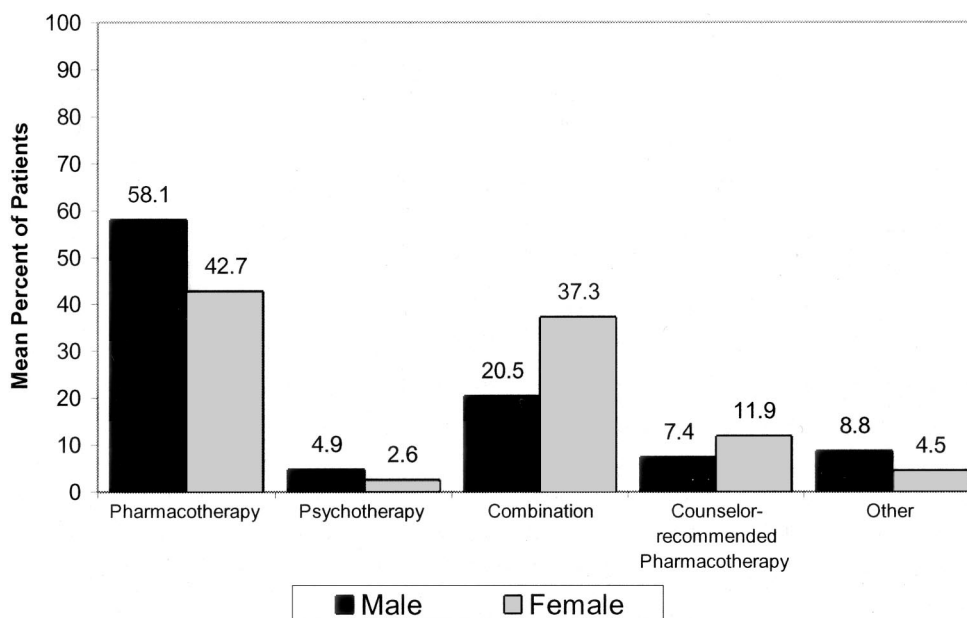


Figure 2. Mean percentage of patients who were recommended each treatment, by physician gender.

apy, counselor-recommended pharmacotherapy, or other treatments did not differ significantly.

Patient demographics were reviewed to determine whether the patient population differed between FM physicians and IM physicians. We found that the average age of patients of IM physicians was significantly higher (38.9 years, S.D. = 15.1) than that of FM practitioners (35.7 years, S.D. = 13.2; $F = 5.8, P = .02$). In addition, FM physicians had a higher percentage of female patients (78.6%) than did IM physicians (60.4%; $\chi^2 = 19.5, P < .001$). IM physicians had a higher percentage of white patients (94.2%) than FM physicians (80.3%; $\chi^2 = 18.1, P < .001$).

Discussion

Hypotheses

The results of this study were consistent with our hypotheses. Physicians prescribed pharmacotherapy more frequently than any other intervention. Female physicians were also more likely than male physicians to recommend psychotherapy to their depressed patients. In addition, FM and female physicians were more likely than IM and male physicians, respectively, to use combination therapy, with female physicians being the most likely to recommend such measures. Because of insufficient statistical power, it was difficult to isolate the interaction effects of specialty and gender on treat-

ment decisions. Although no statistically significant interaction between physician gender and medical specialty was found, 46% of the FM physicians in this sample were women, whereas only 30% of the IM physicians were women.

Theoretical and Practice Differences

A possible explanation behind these results is that family physicians are encouraged to use a biopsychosocial model when working with patients.²²⁻²⁴ On-site behavioral medicine faculty train FM physicians at this location in this model, which emphasizes assessing and treating the patient as a whole person, including recognizing the important role of cognition, affect, and the relationship context in the origin of and recovery from depression. The FM physicians in this setting also had mental health practitioners on site, so referrals to psychotherapy could be easily made, and the physician could discuss the patient's case with the therapist. This leads to the consideration of why other specialties are less likely than FM to hire psychotherapists to work within medical clinics. Further research on these trends is warranted.

Gender Differences

With regard to our investigation of gender differences, Hall,²⁰ in a meta-analysis of provider characteristics, found that female providers spend more

time with their patients, talk more about psychosocial topics, engage in more partnership building, and express more positive verbal and nonverbal behaviors than male doctors. Female physicians have shown significantly greater psychosocial orientation and patient-centeredness than male physicians. These differences could explain why more women choose to become FM than IM physicians.²¹ This is important because current research and treatment recommendations indicate that psychotherapy is often a patient preference.^{25,26} A female doctor with partnership building skills may be more likely to ask for the patient's treatment preference (which is often psychotherapy), leading female physicians to refer their depressed patients to psychotherapy more frequently. The prevalence of female FM practitioners also suggests the likelihood of more combined prescriptions, given that women are both more likely to be FM physicians and to prescribe such treatments.

Benefits of Psychotherapy as the Recommended Treatment

There are many reasons that psychotherapy, alone or in combination with pharmacotherapy, should be the recommended treatment. Not only is psychotherapy often the patient's preference, but therapy approaches, specifically cognitive, behavioral, or interpersonal models, have also been shown to be at least as effective as medication in treatment of mild to moderate depression.^{1,27} Ward et al (2000) found that psychological therapy reduced depression more quickly than traditional general practitioner care.²⁸ Psychotherapy combined with medical therapy is an option for patients who do not respond to either alone.^{14,19,29} Researchers have found that patients with a severe depressive disorder who are treated with a combination of psychotherapy and pharmacotherapy had an 85% remission rate as opposed to 55% for medication, and 52% in response to psychotherapy.²⁵ This finding indicates that combination therapy is the most effective treatment strategy available and is indicated for severely depressed patients. Despite the research findings, the current study confirms that pharmacotherapy continues to be the primary treatment modality among primary care physicians.^{19,30}

The guidelines cited in the introduction recommend psychotherapy for all levels of depression, with the addition of pharmacotherapy for patients

with moderate or severe depression. In addition, combination therapy (ie, psychotherapy and pharmacotherapy) has also been recommended for use when patients present with a more complex major depressive disorder.¹⁴ For example, a fairly common yet underdiagnosed mood disorder frequently manifesting with symptoms of depression is bipolar disorder.³¹ Although combination treatment is recommended for both depression and bipolar disorder, the suggested pharmacotherapy regimens for these 2 mood disorders are different. Therefore, a correct diagnosis is critical. Barriers to a correct diagnosis will be discussed in more detail below.

Reduced Need for Health Care Services: Cost Offset

Another advantage to the prescription of psychotherapy or combination therapy is that persons who receive individual, couple, or family therapy have been found to require health care services less often after their therapy was completed. For example, Law et al³² found that individuals receiving marital and family therapy significantly decreased their use of medical services by 53% 6 months after termination of therapy. Similar results were found in those persons receiving individual therapy; their health care utilization significantly decreased by 48%. Thus, prescribing psychotherapy or combination therapy to depressed persons can significantly lower the health service costs associated with these patients.

Barriers to Effective Treatment

The results from this study led the researchers to question why there is such a discrepancy between research on effective depression treatment and patient preferences on the one hand and actual treatment decisions on the other. Many barriers to effective depression treatment have been previously identified, including underdiagnosis of depression. The US Preventive Services Task Force³³ reported that depression is undetected in up to 50% of all cases in primary care.

Adherence

Once patients are screened, diagnosed, and prescribed treatment, their adherence to the treatment plan becomes a potential barrier to effectively addressing the depression. Twenty-five to 30% of primary care patients treated with antidepressant medication discontinue treatment within 1 month,

and 40% to 50% stop treatment within 3 months.^{34,35}

Finances and Insurance

Finances can contribute to lack of patient adherence to treatment. Although there seems to be no difference in cost among general practitioner care, cognitive-behavioral therapy, and nondirective counseling,^{36,37} whether or not the patient possesses insurance and the type of insurance coverage seems to influence which treatment is prescribed for a depressed patient. For example, patients who had private insurance were more likely than those who did not to receive pharmacotherapy for the treatment of their depression.³⁸ For this reason, patients were then less likely to receive combination therapy—the most effective treatment modality for depression.

Furthermore, patients who have little or no mental health third party coverage will often not be able to follow through on the referral for mental health services. Thus, to spare their patients financial hardship (which could intensify rather than treat the depression), physicians will purposely not diagnose patients as depressed, even when they meet the criteria for a major depressive episode. They will treat the physical symptoms (eg, lack of sleep, decreased appetite, fatigue, etc), but not the psychological ones (eg, sadness, hopelessness, guilt, etc).³⁹

Physician-Patient Communication

In addition to financial concerns, another barrier may be ineffective physician-patient communication. Past evidence suggests that effective physician-patient communication leads to improved depression identification, treatment, and patient satisfaction.^{40–46} Patients state that physicians do not encourage them to ask questions, ask their opinions about the ailment or treatment, or give advice on lifestyle changes that could possibly affect patients' health. In general, patients are satisfied with the competency of medical care, but feel that communication with their physician is lacking.⁴⁷ In addition, Nutting et al⁴⁸ suggested that poor physician-patient interaction may reduce the likelihood that primary care physicians will use treatment strategies other than medication.

Improving physician-patient communication may not only lead to improved identification and treatment of depression but also aid in the accurate

diagnosis and subsequent treatment of more complex mood disorders that may initially appear as depression, such as bipolar disorder.⁴⁹ Studies suggest that 30% to 40% of patients in psychiatric and primary care settings who have been diagnosed with major depression are inaccurately diagnosed and meet the criteria for bipolar II disorder.^{31,50}

Concerns with Antidepressants and Bipolar Patients

According to the National Institute of Mental Health (NIMH), the recommended treatment for bipolar disorder is a combination treatment (ie, psychotherapy and pharmacotherapy).⁵¹ In fact, there is evidence that prescribing standard antidepressants to patients with bipolar disorder may induce mania or worsen the disorder over the long term.⁵² If antidepressant medications without psychotherapy are used for the treatment of bipolar disorder, guidelines recommend that a "mood stabilizer" be included as part of the treatment.^{51,52} Ineffective physician-patient communication may contribute to the inaccurate diagnoses and subsequently the potentially damaging treatment recommendation of antidepressant medications alone. It is clear that a better understanding of the physician-patient communication process is needed. Improving the physician/patient communication process is vital in improving the care provided to depressed patients.

Study Limitations

One limitation of this study is the small sample size. This study used a convenience sample. Consequently the researchers did not control for gender, age, ethnic group, and other demographic and social characteristics. In addition, the sample is representative of only the Midwest urban population, so the results cannot be widely generalized.

The Need for Further Research

The results of this pilot study point to the need for further research. To verify the current treatment strategies indicated by these results, a larger, nationally representative sample of physicians would be an important next step. More complex mood disorders, such as bipolar and anxiety disorders, should also be included in future studies. In addition, a study including IM physicians who also have psychotherapists available on-site for referral would ensure clearer results regarding differences

between IM and FM physicians' treatment recommendations.

Although the current literature describes physician treatment decisions, patient preferences, and treatment outcomes, further research efforts need to focus on what occurs during the patient-physician negotiation of treatment that so often results in drug prescriptions rather than other treatments. A detailed examination of the initial encounter between the physician and a depressed patient can provide researchers the knowledge necessary to design interventions that will enhance the physician-patient interaction and result in decisions that will improve the treatment of this major health problem.

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