Depression

Causes and Treatment

Second Edition

Aaron T. Beck, M.D., and Brad A. Alford, Ph.D.

PENN

University of Pennsylvania Press Philadelphia

hapter 1

The Definition of Depression

Paradoxes of Depression

Depression may someday be understood in terms of its paradoxes. There is, for instance, an astonishing contrast between the depressed person's image of him- or herself and the objective facts. A wealthy woman moans that she doesn't have the financial resources to feed her children. A widely acclaimed movie star begs for plastic surgery in the belief that he is ugly. An eminent

physicist berates herself "for being stupid."

Despite the torment experienced as the result of these self-debasing ideas, the patients are not readily swayed by objective evidence or by logical demonstration of the unreasonable nature of these ideas. Moreover, they often perform acts that seem to enhance their suffering. The wealthy man puts on rags and publicly humiliates himself by begging for money to support himself and his family. A clergyman with an unimpeachable reputation tries to hang himself because "I'm the world's worst sinner." A scientist whose work has been confirmed by numerous independent investigators publicly "confesses" that her discoveries were a hoax.

Attitudes and behaviors such as these are particularly puzzling—on the surface, at least—because they seem to contradict some of the most strongly established axioms of human nature. According to the "pleasure principle," patients should be seeking to maximize satisfactions and minimize pain. According to the time-honored concept of the instinct of self-preservation, they should be attempting to prolong life rather than terminate it.

Although depression (or melancholia) has been recognized as a clinical syn-

drome for over 2,000 years, as yet no completely satisfactory explanation of its puzzling and paradoxical features has been found. There are still major unresolved issues regarding its nature, its classification, and its etiology. Among these are the following:

1. Is depression an exaggeration of a mood experienced by the normal, or is it qualitatively as well as quantitatively different from a normal mood?

- What are the causes, defining characteristics, outcomes, and effective treatments of depression?
- Is depression a type of reaction (Meyerian concept), or is it a disease (Kraepelinian concept)?
- Is depression caused primarily by psychological stress and conflict, or is it related primarily to a biological derangement?

about depression. There is considerable controversy regarding the classificais sharp disagreement among clinicians and investigators who have written caused by organic factors. A third group supports the concept of two different is primarily a psychogenic disorder; others maintain just as firmly that it is even more sharply divided opinion. Some authorities contend that depression logical category at all. The nature and etiology of depression are subject to tion of depression, and a few writers see no justification for using this nosotypes of depression: a psychogenic type and an organic type There are no universally accepted answers to these questions. In fact, there

Prevalence of Depression

second only to schizophrenia in first and second admissions to mental hospision than from any other single disease affecting humankind. Depression is health. According to Kline,1 more human suffering has resulted from depres-The importance of depression is recognized by everyone in the field of mental depression outside hospitals is five times greater than that of schizophrenia.2 tals in the United States, and it has been estimated that the prevalence of Unipolar depression accounted for more than one in every ten years of life leading cause of disability in 1990, measured in years lived with a disability. Worldwide, Murray and Lopez3 found unipolar major depression to be the lived with a disability.

sion. Piccinelli⁶ reviewed the studies on gender differences in depression population more than 20 years of age were suffering from depression at a sion in a sharply defined geographical area indicated that 3.9 percent of the and found that the gender differences began at mid-puberty and continued male and 5-9 percent of the female population suffer from a major depresdepressive disorder is 5-12 percent for males and 10-25 percent for specified time. 4 According to the fourth edition of the Diagnostic and Statisthrough adult life. females. At any given point in time ("point prevalence"), 2-3 percent of the Association,5 the probability during one's lifetime of developing a major tical Manual of Mental Disorders (DSM-IV) of the American Psychiatric More than 40 years ago, a systematic survey of the prevalence of depres-

TABLE 1-1. Leading Causes of Disability Worldwide, 1990

Adapted from Lonez and Marries, 1999 b	 9. Schizophrenia 10. Obsessive-compulsive disorder 	b. Bipolar disorderCongenital anomaliesOsteoarthrifis	 Alcohol use Chronic obstructive pulmonary disease 	 Unipolar major depression Iron-deficiency anemia Falls 	All causes	
	13.3 12.1 10.2	14.1 13.5	22.0 15.8	427.7 50.8 22.0	Total years lived with disability (millions)	
	2.8 2.6	3.1 3.0 2.9	4.6	10.7	Percent of total	

mental_health/management/depression/definition/en/ Lopez and Murray 1998. For up-to-date WHO data, see http://www.who.int/

TABLE 1-2. Prevalence of Major Depressive Disorder by Gender (%)

Adapted from DSM-IV-TR	- Joseph michieu	Point prevalence	Lifetime	
	2-3	5-12	inate	Mala
<u></u>	n t	10-25	Female	

Prevalence and Severity by Types and Age at Onset

sive disorder is the leading cause of disability in the established market econoin a given year suffer from some form of depressive disorder. Major depresmies around the world.7 0.4-1.0 percent. The National Institute of Mental Health (USA)7 reports that 18.8 million American adults (9.5 percent of the population age 18 or older) der 6 percent; Bipolar I 0.4-1.6 percent; Bipolar II 0.5 percent; Cyclothymic the tinctions among types) are reported in $DSM-IV^{-}$ as follows: Dysthymic disor-Lifetime prevalence rates for the other mood disorders (see Chapter 4 for dis-

and estimates of mood disorders from this study are included in Table 1-3. English-speaking respondents 18 years and older. Twelve-month prevalence the Composite International Diagnostic Interview. Participants included 9,282 and April 2003. The study employed a structured diagnostic interview, the resentative face-to-face household survey conducted between February 2001 World Health Organization World Mental Health Survey Initiative version of The U.S. National Comorbidity Survey Replication included a nationally rep-Twelve-month prevalence and severity rates are provided by Kessler et al.8

TABLE 1-3. Twelve-Month Prevalence and Severity of Mood Disorders (%)

FORDER F CO. ST. CO. T. T. T.				*
			Severity	ļ
	Total	Serious	Moderate	Mild
Asiar depressive disorder	6.7	30.4	50.1	19.5
Prothermia	1.5	49.7	32.1	18.2
Disclar I_II disorders	2.6	82.9	17.1	0
Any mood disorder	9.5	45.0	40.0	15.0
Titly IIIOOG GAGGAGET				

Adapted from Kessler et al. 2005

TABLE 1-4. Ages at Selected Percentiles on Standardized Age-of-Onset Distributions of DSM-IV/ WMH-CIDI Mood Disorders, with Projected Lifetime Risk at Age 75 Years

Major depressive disorder Dysthymia Bipolar I–II disorders Any mood disorder	Pro lifet at ag
23.2 3.4 5.1 28.0	Projected lifetime risk at age 75 (%)
12 7 11	Age 5
14 13 13	at se 10
19 17 18	lectec
32 31 25 30	t age-
43 43 43	of-on 75
56 51 50 54	set pe
64 57 63	Age at selected age-of-onset percentiles 5 10 25 50 75 90 95 95
2522	iles 99

Adapted from Kessler et al. 2005

TABLE 1-5. Lifetime Prevalence (%) of Disorders by Age

Particular in the second					
			Age		
	Total	18-29	30-44	45-59	>60
Major depressive disorder	16.6	15.4	19.8	18.8	10.6
Midjoi depressive enecessis	٠ ١	17	2.9	3.7	1:3
Dysinyma	3 0	y i	4.6	3.5	1.0
A su mood disorder	20.8	21.4	24.6	22.9	11.9
Till mood discrete					

Adapted from Kessler et al. 2005

a mood disorder at some time in one's lifetime) are presented in Tables 1-4 and 1-5.9 Age of onset and lifetime prevalence rates (the likelihood of experiencing

Descriptive Concepts of Depression

of ancient writers under the classification of "melancholia." The first clinical The condition that today we label depression has been described by a number He also referred to swings similar to mania and depression.¹⁰ description of melancholia was made by Hippocrates in the fourth century B.C

> believe that he anticipated the Kraepelinian synthesis of manic-depressive complain of a thousand futilities and desire death." It is noteworthy that Areagitation and loss of refreshing sleep. . . . At a more advanced stage, they ancholic patient as "sad, dismayed, sleepless. . . . They become thin by their psychosis, but Jelliffe discounts this hypothesis. taeus specifically delineated the manic-depressive cycle. Some authorities Aretaeus, a physician living in the second century A.D., described the mel-

detailed account of melancholia: Plutarch, in the second century A.D., presented a particularly vivid and

thing wrong. He has gone some way or other which the Divine Being did not approve of. The festivals in honor of the gods give no pleasure to him but fill him of doors, wrapped in sackcloth or in filthy rags. Ever and anon he rolls himself, naked, in the dirt confessing about this and that sin. He has eaten or drunk someremedying the evil, lest he be found fighting against the gods. The physician, the rather with fear or a fright. (quoted in Zilboorg¹¹) impious, the accursed, hated of the gods, to suffer my punishment.' He sits out consoling friend, are driven away. 'Leave me,' says the wretched man, 'me, the A far worse lot is before him; he dares not employ any means of averting or of He looks on himself as a man whom the Gods hate and pursue with their anger.

lows: Pinel at the beginning of the nineteenth century described melancholia as fol-

tion and a sanguinary heart, the image is rendered still more repulsive. more hideous than the figure of a melancholic brooding over his imaginary misindeed, appear to distinguish the characters of some men otherwise in good a thoughtful pensive air, gloomy suspicions, and a love of solitude. Those traits, health, and frequently in prosperous circumstances. Nothing, however, can be fortunes. If moreover possessed of power, and endowed with a perverse disposi-The symptoms generally comprehended by the term melancholia are taciturnity,

sions of having committed unpardonable sins. symptoms (agitation, loss of appetite and weight, sleeplessness); and deluof the gods"); self-debasing behavior ("wrapped in sackcloth or dirty rags... turbed mood (sad, dismayed, futile); self-castigations ("the accursed, hatred used today in diagnosing depression are found in the ancient descriptions: dishe rolls himself, naked, in the dirt"); wish to die; physical and vegetative accounts such as that by Clifford W. Beers. 12 The cardinal signs and symptoms of depression; they are also similar to contemporary autobiographical These accounts bear a striking similarity to modern textbook descriptions

descriptions of depression indicate that its manifestations are observable in all depression through the ages, see Burton. 13) It is noteworthy that the historical of this condition. There are few psychiatric syndromes whose clinical descriptions are so constant through successive eras of history (For descriptions of The foregoing descriptions of depression include the typical characteristics

affection, cognition, and conation. aspects of behavior, including the traditional psychological divisions of

sion, it has become customary to regard this condition as a "primary mood disorder" or as an "affective disorder." The central importance ascribed to elicited from the patient. In our present state of knowledge, we do not know disorder." There are many components of depression other than mood deviadesignate scarlet fever as a "disorder of the skin" or as a "primary febrile tation of depression as an affective disorder is as misleading as it would be to affective adjective checklists to define and measure depression. The representhe feeling component of depression is exemplified by the practice of utilizing they are all simply external manifestations of some unknown pathological which component of the clinical picture of depression is primary, or whether tion. In a significant proportion of the cases, no mood abnormality at all is Because the disturbed feelings are generally a striking feature of depres-

Depression may now be defined in terms of the following attributes:

- 1. A specific alteration in mood: sadness, loneliness, apathy.
- A negative self-concept associated with self-reproaches and self-blame.
- Regressive and self-punitive wishes: desires to escape, hide, or die.
- Vegetative changes: anorexia, insomnia, loss of libido.
- Change in activity level: retardation or agitation.

Semantics of Depression

One of the difficulties in conceptualizing depression is essentially semantic, of feeling or symptom; a symptom-complex (or syndrome); and a well-defined namely, that the term has been variously applied to designate a particular type

a transient sadness or loneliness may state that he or she is depressed. Whether any lowering of their mood below their baseline level. A person experiencing disease entity. unhappy, the term depressed is often used to label this subjective state. event, when a person complains of feeling inordinately dejected, hopeless, or enced in the abnormal condition of depression is open to question. In any this normal mood is synonymous with, or even related to, the feeling experi-Not infrequently, normal people say they are depressed when they observe

symptoms is sometimes conceptualized as a psychopathological dimension ranging in intensity (or in degree of abnormality) from mild to severe. The is regarded as a syndrome, or symptom-complex. The cluster of signs and that is not represented as a discrete psychiatric disorder. In such instances it tions in feelings, cognition, and behavior (described in the previous section) syndrome of depression may at times appear as a concomitant of a definite The term depression is often used to designate a complex pattern of devia-

> such as general paresis or cerebral artereosclerosis. drome may be secondary to, or a manifestation of, organic disease of the brain sis would be "schizophrenic reaction with depression." At times, the synpsychiatric disorder such as schizophrenic reaction; in such a case, the diagno-

specifiable type of onset, course, duration, and outcome. addition to the characteristic signs and symptoms; these attributes include a sion, or psychotic-depressive reaction. When conceptualized as a specific clina particular type or form, as for example: reactive depression, agitated depresical entity, depression is assumed to have certain consistent attributes in cal entity. The term has generally been qualified by some adjective to indicate Finally, the term depression has been used to designate a discrete nosologi-

manic episode, and in the latter there is such a history. and (2) bipolar disorders. In the former, there is no history of a manic or hypogorizes the mood disorders into (1) depressive disorders (unipolar depression) chiatric Association (APA), illustrates some of these aspects. The APA cate-One such classification system, the diagnostic manual of the American Psy-

mood disorders will be considered in more detail in Chapter 4. into two types, Bipolar I and Bipolar II disorder.5 The classification of the orders are usually accompanied by major depressive episodes, and are divided mood, where the person is depressed for more days than not. The bipolar disthymic disorder is defined in part by at least 2 years of low-level depressed sive episodes. Such episodes include 2 weeks of depressed mood or loss of interest, along with a minimum of four additional depression symptoms. Dysdisorder. Major depressive disorder is defined by one or more major depres-The depressive disorders include major depressive disorder and dysthymic

entity depression responds to certain drugs and/or electroconvulsive therapy be further considered in Part II, "Experimental Aspects of Depression." etiology. There is a considerable body of evidence indicating that the clinical cific forms of treatment (not necessarily discovered as yet) and to have a specific (ECT), but there is no consensus as yet regarding its etiology. This issue will In medicine, a clinical entity or disease is assumed to be responsive to spe-

Depression and Normal Moods

anger, that do not fit into the happiness-sadness categories are not generally The particular feelings encompassed by this term, consequently, are directly that normal individuals may have "blue" hours or "blue" days. This belief ncluded. Some authors 14 believe that all individuals have mood swings and related to either happiness or sadness. Subjective states, such as anxiety or term mood is generally applied to a spectrum of feelings extending from elation and happiness at one extreme, to sadness and unhappiness at the other. depression to the changes in mood experienced by normal individuals. The There is little agreement among authorities regarding the relationship of

has been supported by systematic studies of oscillations in mood in normal

of normal low mood and of depression. The words used to describe normal blue, sad, unhappy, empty, low, lonely. It is possible, however, that this low mood tend to be the same used by depressives to describe their feelings-First, there is a similarity between the descriptions of the subjective experience viduals are similar in a number of ways to the clinical states of depression. quite distinct from any feelings they have ever experienced when not in a clini-Some patients, in fact, state that their feelings during their depressions are resemblance may be due to depressed patients' drawing on familiar vocabucal depression. lary to describe a pathological state for which they have no available words. The episodes of low mood or of feeling blue experienced by normal indi-

sad but who would not be considered clinically depressed. A person who has acteristic of depression are occasionally seen in individuals who are feeling lowered voice. Third, some of the vegetative and physical manifestations charwho is sad or unhappy, particularly in the mournful facial expression and the rhythmic variations in the intensity of depression.¹⁵ and forlorn, but also experience anorexia, insomnia, and fatigability. Finally, failed an examination, lost a job, or been jilted may not only feel discouraged or rhythmic fashion, independently of external stimuli, suggestive of the many individuals experience blue states that seem to oscillate in a consistent Second, the behavior of the depressed patient resembles that of a person

to the concept that the pathological is simply an exaggeration of the normal. and the more mild intensities are certainly similar to the phenomena observed each symptom of depression may be graded in intensity along a dimension, On the surface, this view seems plausible. As will be discussed in Chapter 2, in normal individuals who are feeling blue. The resemblance between depression and the low mood of normals has led

egorical, construct. In discussing the implications of their findings, Hankin et symptoms, the authors reported youth depression to be a dimensional, not catdren and adolescents. Taking into account the skewness of depressive metric procedures to examine the structure of depression in a sample of chilal. 16 point out that by using continuously distributed scores, the statistical ascertain correctly the true causes and consequences of depression. power of the research is enhanced, thus aiding the ability of researchers to In support of the continuity perspective, Hankin et al. 16 used Meehl's 17 taxo-

self-critical, and hopelessness forms. The study used self-reported symptom types of major depression, including endogenous, sociotropic, autonomous, and personality profiles of 531 consecutively admitted outpatients diagnosed tric procedures to test for discreteness (discontinuity) of 5 hypothesized sub-Similar to the findings of Hankin et al.,17 Haslam and Beck18 used taxome-

> to covary as predicted, except for the endogenous subtype.18 with major depression. The features of the respective subtypes were not found

is distinct from the normal state. mood found in depression may be the manifestation of a disease process that yet is categorically different from the normal state. Similarly, the deviation in sion of the normal state of health: A person may have a disease, for example, typhoid fever, that is manifested by a serial progression in temperature and atures, the underlying factors producing the large deviations are not an extenchanges in body temperature are on the same continuum as are normal tempertions of mood and deviations of internal body temperature. While pronounced the normal state. To illustrate this, an analogy may be made between the deviacontinuum with the normal state are different in their essential character from It could be contended that many pathological states that seem to be on a

chobiological school founded by Adolph Meyer tends to favor this view. reaction to an extreme reaction in a particularly susceptible person. The psyview, there is a continuous series of mood reactions ranging from a normal school. The environmentalists seem to favor the continuity hypothesis. In their between health and disease has generally been shared by the somatogenic cal derangement as the key factor in depression. This concept of a dichotomy from normal mood. They have postulated the presence of a profound biologiof depression to normal mood swings. Some writers, notably Kraepelin and his followers, have considered depression a well-defined disease, quite distinct There is no general consensus among the authorities regarding the relation

of the etiology of depression is fully resolved. nuity between normal mood and depression will have to wait until the question The ultimate answer to the question whether there is a dichotomy or conti-