

INTERPRETATION OF SCHIZOPHRENIA

Creative Activities of Schizophrenic Patients

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Creative Activities of Schizophrenic Patients:

Visual Art, Poetry, Wit

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Creative Activities of Schizophrenic Patients: Visual Art, Poetry, Wit

I

Introduction and Historical Review

When the pain is so intense that it no longer has access to the level of consciousness, when the thoughts are so dispersed that they are no longer understood by fellow men, when the most vital contacts with the world are cut off, even then the spirit of man does not succumb, and the urge to create may persist. The search, the appeal, the anguish, the revolt, the wish, may all be there and can be recognized in the fog of the emotional storm of the schizophrenic patient and within the crumbling of his cognitive structure.

Of all the creative activities of the schizophrenic patient, painting is the one that has been studied the most, and we shall devote the bulk of this chapter to this subject. Because the literature on this topic is immense, we shall limit a review of it to the works that are the most significant in a historical frame of reference.

Max Simon (1876, 1888) is reputed to be the first psychiatrist to have made a systematic study of drawings of mental patients. He described five major types of art work, each related to a different syndrome. He also remarked on the similarity between the art of the insane and that of children and primitive people. In 1880 the Italian psychiatrist Cesare Lombroso wrote "On the Art of the Insane." He attempted to understand the conflicts of the patient, stressed again the similarity between psychotic and primitive art, and noticed the importance of sexual symbolism.

Fritz Mohr made the next important contribution. He devised drawing tests, which he used as diagnostic aids (1906). He also attempted to interpret the patients' artwork. For instance, he recognized expressions of obstructions of the will in catatonic patients. Hans Prinzhom utilized the previous approaches to psychotic art, which he called "the psychiatric," "the folk-lore," and "the psychoanalytic" (1922). He felt that the work has to be studied with an aesthetic approach and should be seen also as an expression of the whole personality. He felt that although the psychoanalytic approach may be useful in unraveling the patient's conflict, it is of little value in studying creativity *per se*. Other important works on the subject were

written by Schilder (1918), Morgenthaler (1921), and Pfeifer (1925).

Delgado (1922) found the artistic material of the psychotic patient very rich in sexual symbolism and useful for the psychological understanding of the patient. Pfister (1923) criticized Delgado and stated that sexual content is rare in the art of the psychotic.

Nolan D. C. Lewis (1925, 1928) was the first American author to make important contributions on this subject. He interpreted the symbolism of the visual productions in accordance with psychoanalytic principles. He gave particular importance to the “death wish” that is “so artfully concealed that the producer is not aware of its existence.” He also stressed the recurrence of the “evil eye”: the “all-seeing eye” of God, the male parent, or the analyst or a combination of all three as the central theme in many drawings of patients of both sexes, all ages, and all nationalities.

Karpov (1926) emphasized that some symptoms may appear in the artistic production before they occur at a clinical level. Vinchon (1926, 1950) also stressed that the psychological disturbance may appear in the artistic production before the onset of the psychosis.

The well-known French psychiatrist Henri Ey (1948) classified the artistic productions of the mentally ill into four categories: (1) aesthetic forms that have nothing to do with the mental disorder and are simply juxtaposed; (2) aesthetic forms modified by the illness; (3) aesthetic forms of pathologic projection; (4) aesthetic forms immanent in the delusional ideas.

Margaret Naumburg (1950) has done important work on schizophrenic art from the point of view of its meaning in psychotherapy. In her accurate reports about two schizophrenic girls, Naumburg demonstrated how the symbolic forms expressed their life history, their conflicts, and their solutions. In the course of therapy the patients abandoned gradually stereotypy and archaic forms and assumed an increasing freedom of expression. Naumburg feels that art therapy increases the patients' awareness of their conflicts and their ability to verbalize them.

Francis Reitman (1951, 1954) has made important studies of schizophrenic art. He believes that its peculiarities and special features depend primarily on the cognitive abnormalities of the patient. According to him the similarities, emphasized by some authors,

between modern art and schizophrenic art are only apparent or superficial. He wrote that whereas the work of normal artists reveals a deliberate restructuring of reality into complex patterns or relations of form and color, the work of schizophrenics discloses a general lack of structure, a disintegration of perceptual relations, and a dissolution of concepts. Whereas in the painting of modern artists the radical alteration is one of reorganization, in the work of schizophrenics it is one of disorganization. Reitman feels that there is an interconnection between art and conceptual thinking, but he does not illustrate how the various alterations in cognition are responsible for the characteristics of psychotic art.

Dax (1953) did interesting experimental studies of psychiatric art. He compared the representations of ancient Egyptian gods to the composite figures of schizophrenics. He gave particular importance to the meaning of the eye in the paintings of patients. He thought that it is not sufficient to interpret the eye in association with guilt feelings or an “eye of conscience” or “the eye of God” or an “all-seeing eye.” He compared the importance of the schizophrenic eye symbolism to that of the ancient Egyptians. In ancient Egypt the eye had five main symbolic meanings: (1) the eyes of the sun and the moon; (2) the

sacred eye; (3) the eye of sacrifice; (4) the eye of immortality; (5) the evil eye.

A very important book on psychopathological art was written by Volmat (1955). Not only does this author give an accurate account of the literature, but he also reports on the international exposition of psychopathological art that took place in Paris in 1950 on the occasion of the first world congress of psychiatry. Volmat's book contains reproductions of 169 works and analyzes the main points of view of the various authors who did research on this subject. Volmat concluded that in his artwork the patient expresses himself and his illness totally.

II

General Remarks about Schizophrenic Art

According to some statistics reported by Volmat, only 29 percent of psychiatric patients paint spontaneously. It is impossible to ascertain the observation reported by some authors that schizophrenics paint more frequently than normal persons. Whether this is true or not, it is certain that the habit of painting noted in many schizophrenics contrasts with their general inactivity and lack of

involvement with the things of the world. Many hypotheses have been proposed to explain the phenomenon. Some people believe that the boredom of years spent in hospitals triggers off even a modest talent that has remained dormant for many years. This hypothesis does not explain why schizophrenics would not relieve boredom in other ways. Another hypothesis explains the habit as a search for what the patient has lost in life. Psychological loss and emptiness would promote in the patient the urge to compensate or restore. But again, why to restore in this way? It seems to me that the most important reason resides in the nature of the schizophrenic process itself. On one side, the regression makes primary process cognition reappear with renewed availability of unused forms. On the other side, we have the rekindling of fantasies and motivational impulses, never realized in life, now searching an actualization on paper or on canvas, just as in the majority of patients they find actualization in delusions and hallucinations.

The motivational impulses may be wishes that were never fulfilled or even expressed because of their primitive, shameful content. They may be fantasies that were repressed because they were unrealizable and frustrating. However, in my opinion, attributing to the schizophrenic a primitive, infantile, or purely sexual motivation is

a common mistake. Whereas sexual expression has recently reached a degree of frequency never reached before in the visual art of normal people of the Western culture, schizophrenic art seems more and more concerned with different aims. It would be equally incorrect to say that schizophrenic art ignores sex. What counts is not only the specific nature of the motivation, but how the motivation is artistically realized and how pathology appears through the realization. In the last two decades several psychiatrists have noted that there are changes in a large number of art works of schizophrenics. In addition to those rigid, schematic, and stereotyped works, which used to be reported in textbooks of psychiatry, we see now an increasing number of confused, irregular, freedom-seeking products. Whether these changes are the result of drug therapy, psychotherapy, art therapy, a difference in the climate of hospital life, or a combination of all these factors is difficult to ascertain.

From a broad point of view we can make the following generalization: schizophrenic art is the result of a struggle between motivational impulses and the specific schizophrenic cognitive media available to the patient. The sudden availability of primary process forms and the disinhibitions of wishes and aspirations become

substitutes for the technique, skill, and commitment that many patients never had before they became ill.

The artwork has another practical purpose for the patient. The schizophrenic experiences the world in fleeting, fugitive ways that are not only different from the ones he perceived prior to the psychosis, but also from those perceived at different stages of the illness. His world tends to be in constant and turbulent metamorphosis. Like many symptoms of the schizophrenic, painting is an effort to adjust to the new vision of reality, to crystallize it, to arrest it, or to delay further changes. This is one of the reasons why many paintings done by regressed schizophrenics show not only metamorphosis, but also an extreme static quality.

In typical cases, which do not recover, we see the following sequence of phases:

1. The eruption of the conflict and the supremacy of the wish prevail without sufficient correction by the secondary process. The correction is insufficient to make the work acceptable to other people. During the first phase it is often difficult to distinguish artwork of schizophrenics from that of nonschizophrenics. It

depends on evaluating whether the correction of the secondary process was sufficient or insufficient, and this evaluation may be arbitrary.

2. A gradual disintegration of the mechanisms of the secondary process and obvious emergence of those of the primary process, reflecting paleologic ideation, take place.
3. A crystallization of primary process mechanisms occurs in more rigid and stereotyped forms.
4. A disintegration of primary process mechanisms also occurs.

In patients who recover, the process does not go beyond the second phase. Eventually secondary process mechanisms succeed in repressing or, hopefully, in integrating or solving the conflict.

The principle of active concretization, discussed in Chapter 15, occurs also in fine art and in schizophrenic art. In fine art a concrete representation may stand for the abstract—a flower may stand for the beautiful, the portrait of a smiling girl may stand for youth and happiness. In art of normal people it is through the medium of the primary process that the abstract concept emerges. In psychopathological art, as in dreams of normal people and in delusional thinking, the consciousness of the abstract rapidly

decreases and may be completely lost. What remains is the concrete representation.

The principle of Von Domarus, which we have described in Chapter 16, is applied quite often in schizophrenic artwork. In many cases it is applied only partially; that is, some partial identity among the subjects is based upon an identification of a part, generally identity of a form, detail, visual appearance, shape. In these cases we have no total identification; instead, *fusion* or *condensation* of two or more subjects is quite characteristic. Other mechanisms of primary process cognition deal with mannerisms, stereotypes, repetition of forms, and so forth. Many of these mechanisms are also used in normal art, but whereas in normal art they are harmoniously matched by the secondary process, in schizophrenic art they remain incongruous.

III Content and Conflict

In some artworks what strikes the observer most is not the presence of regressive forms but an unusual content or the manner in which the conflict is represented. These works are generally done by patients at the beginning of the illness or, if they had been ill for a long

time, by those who had not undergone advanced regression. In some of these patients, nontypical schizophrenic features were also present, like psychopathic, depressive, or involuntional features.

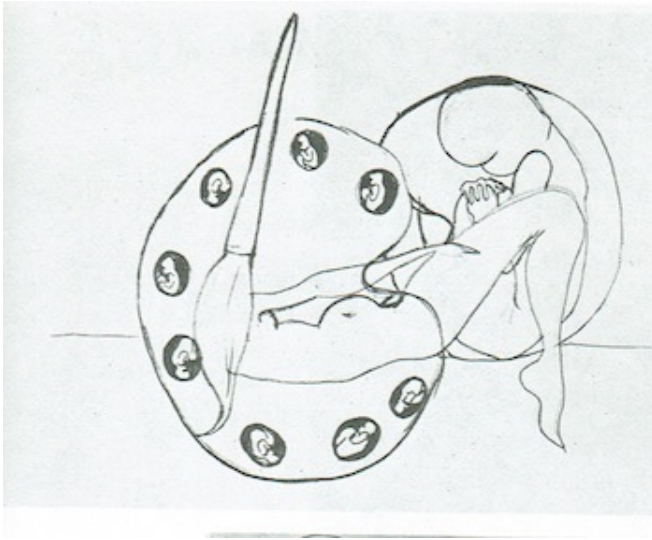


Figure 3

Figure 3 is a drawing made by Pauline, who was in the first stage of schizophrenia and whose work showed what I consider the first phase of artistic pathology. Pauline is aware of the major conflicts in her life, although she is not aware that the inability to solve them makes her frail, reactivates an ancient anxiety, and precipitates her illness. Pregnancy is obviously the theme. The abdomen of the woman

protrudes and the fetus is represented in various positions. Worth noticing is the fact that the head of the woman does not appear; it seems to be covered or perhaps replaced by an elongated object that may stand for the right arm, for the head, for a torch, or for a brush. The similarity to a brush leads me to the second picture (Figure 4), which actually was made by the patient one day before the first one.



Figure 4

Figure 4 reveals that the woman feels fragmented under the weight of her major problem: is she going to fulfill her desire to be a painter? We see again here the paleologic confusion among arm, torch, and brush because of the similar shape of these objects. The brush, which is her life torch, fell to the floor. Important to notice is that the palette bears a striking resemblance to the womb in the left part of the previous picture: the various colors, ingredients for her creativity, remind us of the fetus in the various positions. Her head, covered by her hair, is similar to the brush.

The following drawing (Figure 5), also made the day before the first one was made, was entitled by Pauline: "The Awakening of a Dream." No longer is it the dream or daydream of being a painter. With the eye that feels and cries, the ear that listens, she tries to put herself together. Her big breast and belly, and the torch-hair-brush, indicate that she is selecting motherhood.

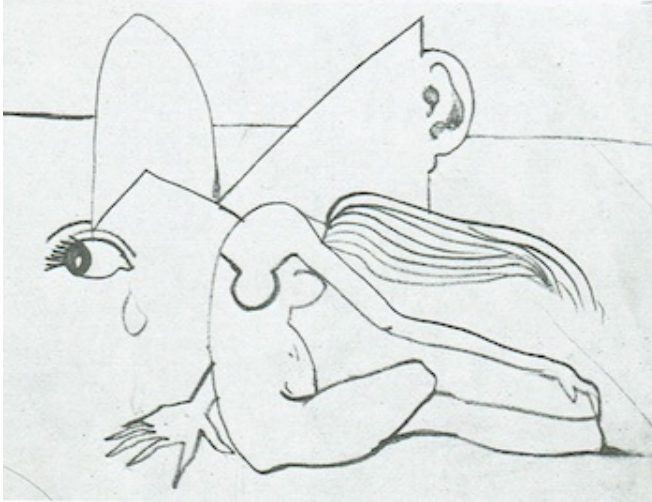


Figure 5

When we compare Figures 3 and 4, we see how Pauline’s conflict—between being a painter and being a mother, the war between the palette and the womb— was represented in visual forms, to a considerable extent, through the application at a visual level of Von Domarus’s principle. Her life drama finds a visual expression that, although partially affected by pathological mechanisms, is still acceptable and elicits in the normal observer consensual validation, shared feeling, compassion, and so on. We recognize that the womb has won and that the palette has been defeated; but it was a pyrrhic victory. At this level the conflict of the patient and its artistic

representation still evoke a response, the pathos becomes ethos.

A case described by the Belgian psychiatrist Bobon (1957), and later in greater detail by Bernard and Bobon (1961), reveals very well the importance of content. Gaston, the son of a violent alcoholic father and a mother who was irritable and overprotective, developed catatonic schizophrenia. A few years later, while he was a patient in a hospital for the chronically ill, it was accidentally discovered that he would spontaneously draw when he had a pencil. On pages of newspapers or odd bits of paper he drew a kind of stereotyped monster, which he called "the rhinoceros." For several years his numerous drawings and paintings were endless variations on the theme of the rhinoceros. A better contact was established by discussing his drawings, and the patient during psychotherapy was able to recall an episode he had forgotten. At the age of 13 he had seen a movie representing a jungle populated by wild beasts, hunters armed with rifles, and especially by striking rhinoceroses. According to Bernard and Bobon the rhinoceros is the image of power and implies also an image of powerlessness. The power is the angry, furious father, as well as any kind of irrational force in the world. The powerlessness is the powerlessness of the patient, who has to face

such evil power. According to Bobon the powerlessness is experienced not only as inferiority but also as guilt for being inferior. However, Gaston was able to externalize his complexes the day he took a pencil and started to draw. Incidentally, Gaston's artistic activity anteceded Ionesco's famous play *Rhinoceros*. Moreover, Gaston had never seen Salvador Dali paintings where parts of rhinoceroses appear. The turbulent rhinoceros, which used to be an inner object, was externalized, and Gaston acquired calm and relaxation. However, during subsequent years strange things happened. The drawn rhinoceros became the depository of anxiety. Under injections of sodium amytal Gaston became talkative and was able to say that after completing a picture of the rhinoceros he became afraid of it. The picture became invested with the meanings and intentions that Gaston had attributed to a real rhinoceros. It became empowered with real physical power. The patient soon stopped drawing and since then lapsed again into a vegetative, motionless, empty life, which possibly will continue ineluctably.

Bernard and Bobon wrote that the rhinoceros became a speech, "the clue to a morbid system," that permitted an understanding of the patient. We must be grateful to the authors for this remarkable report;

but we must also ask ourselves what went wrong. This form of expression, which at first seemed to help the patient, in the long run did not help at all. The patient became afraid of what at first appeared a psychological defense. He had to escape from the rhinoceros as he had once from the real father. This is unfortunately what happens when the schizophrenic psychosis is not successfully treated. What is probably intended to be a defense with restitutive qualities proves to be more disturbing and to cause further regression. The tragic drama of the schizophrenic is thus repeated. The fugitive from reality seeks refuge in a new world, to a large extent of his own creation. But in unfortunate circumstances his fantasy world is more threatening than the one he escaped from.

In the case of Gaston, therapy apparently did not succeed in depriving the rhinoceros of his power. My own hypothesis is that the therapist tried to be good and maternal, but like Gaston's real mother, revealed himself to be weak and ineffective in comparison to the rhinocerontic father.

Figures 6, 7, and 8 are paintings done by a 32-year-old man, a commercial artist who became depressed and finally delusional. He

never had auditory hallucinations but frequently had visual ones. He claimed that he was seeing angels and that every night before falling asleep Jesus Christ appeared to him. He painted many hours every day and would repeatedly say that he could paint with closed eyes, as God guided his hands. Figure 6 shows no gross distortions. There is a desire to change nature, to improve on it in a way that is still acceptable to the observer. The house, the trees, the land constitute an ensemble where hope can still sojourn.



Figure 6

Figure 7 shows where the hope comes from: Christ and the church. A woman is going there, and this may indicate some problems

in sexual identification of the male patient, who was not married.

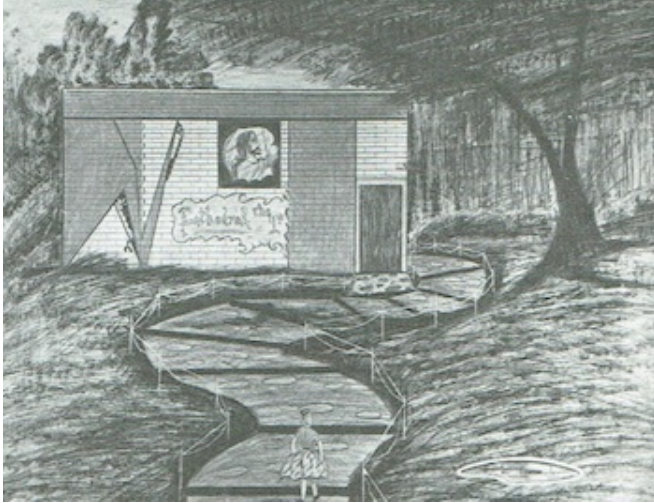


Figure 7

Figure 8 shows a more unrealistic scene. A Freudian observer may find forms reminiscent of penises, vaginas, and pubic hair. The whole is acceptable: hope is still there, as represented by the rainbow and the nice home. After long hospitalization and with old age already approaching, the patient was discharged on custodial care.



Figure 8

The case of Sheila is completely different. Her father, an alcoholic, deserted the family shortly after the patient's birth. The mother died when the patient was 2 years old. Sheila was taken care of in several foster homes, but because of her behavior she was admitted to a psychiatric hospital at the age of 10 under the diagnosis of primary behavior disorder. In her childhood and youth she repeatedly lied, stole, and destroyed property. She was hospitalized several times. As an adult, she was diagnosed as suffering from the mixed type of schizophrenia, later changed to the catatonic type. Her life has been characterized by repeated episodes of disorderly behavior and by

suicidal attempts that necessitated her hospitalizations. During each of her hospitalizations she appeared at first haughty, disdainful, evasive, overactive, tangential, and disconnected in her speech, at times even in catatonic withdrawal. However, shortly her behavior would improve, she would be discharged from the hospital, and after intervals of various lengths she would become acutely ill again. With a few striking exceptions, most of her finger paintings do not disclose schizophrenic characteristics but a turbulent, angry, ferocious personality. She would often sign her paintings and drawings not with her name but with the following phrase: "Drawn by EVERYONE frightened by the Devils." Noteworthy is the word *everyone*; that is, not just she, but anyone of the millions who populate the world and are frightened by the devils. Society and the hospital are among the devils. They become a Nazi society. Pilgrim State Hospital is a death house (Figure 9). The dollar sign, symbol of the capitalistic United States, becomes a swastika (Figure 10). If this world is a world of the devil, a Nazi world, she is better off saying good-bye to the world and committing suicide. In Figure 11, which shows a falling woman and falling flowers, she says, "Nice knowing you," to the world she intends to leave. Paradoxically she has one thing in common with the Nazis—a strong hate for the

Jews. In Figure 12 she portrays what she never had: maternal love bestowed to a little girl. In her delusional thinking she believes that the Jews are responsible for the deprivation that she sustained. Actually Jewish people tried to help Sheila, but because of her conflicts she mistrusted them. She was not able to accept any warmth. Often the hand offered to help her met with the bite of her revenge and fury. It is this attitude of mistrust, determined by the early circumstances of life, that makes therapy with patients like Sheila extremely difficult. However, her psychotic episodes did not bring about regression. In some of her distortions one could see some metaphorical representations of society that many nonschizophrenics can share.

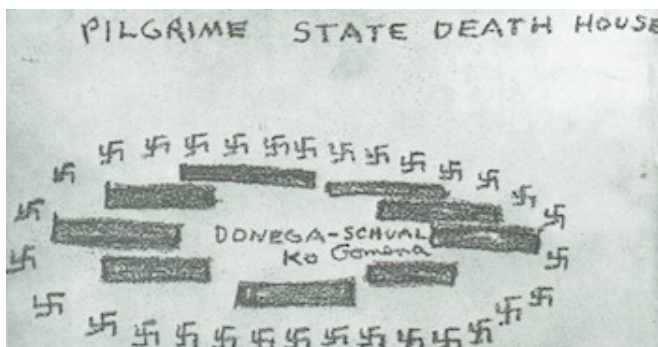


Figure 9

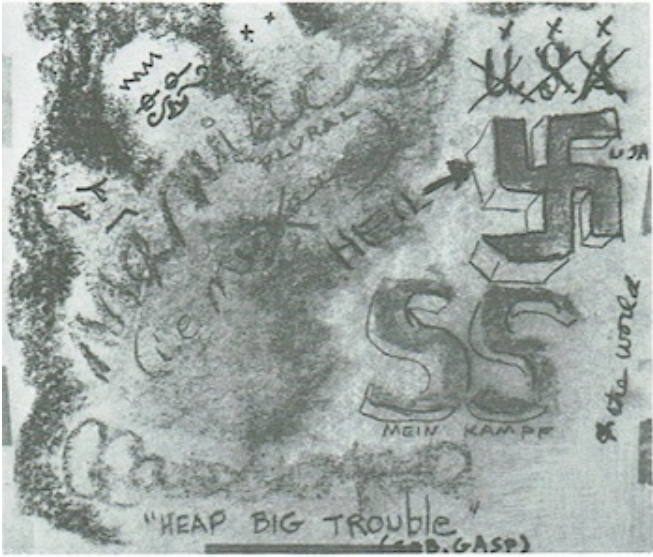


Figure 10



Figure 11



Figure 12

Some themes recur frequently in schizophrenic art. One of them is the theme of the eye (Figure 13). The eye symbolizes the world, or the other, any person other than yourself, the other human being who

is there not to commune with you but to watch. And to watch means to scrutinize, to blame, to condemn, to reject you, and to destroy your sense of self-regard, your privacy, and your human dignity. The main part of the other is not his penis or her vagina but the eye: not an eye that cries, unless it portrays the eye of the patient himself, as in the case of Pauline. It is not the eye that loves, embraces, and protects, like that of a good mother, but a cruel eye that follows you and pierces you. It is Big Brother's eye, the persecutory secret eye.

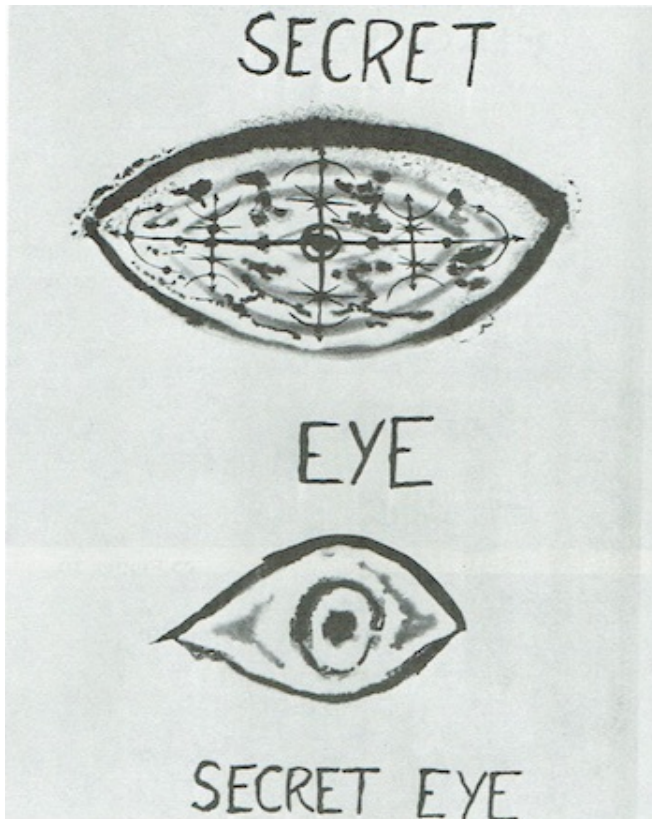


Figure 13

IV Progression of Illness as Revealed by the Artwork

It is important in some cases to study the psychodynamics and the progression of the illness as it is revealed by works of art done by

the same patient at different times. The following case lends itself to such inquiry.

While she was an adolescent and not yet ill, Lucille drew maps of imaginary countries. Figure 14 shows the map of the imaginary land of Valtua. This habit of drawing maps of imaginary countries is not necessarily psychotic or prepsychotic (Gondor, 1963). It is also found in bright and creative children and adolescents, although it often denotes a certain detachment or schizoidism, discomfort with reality, and indulgence in fantasy life. Just prior to her illness Lucille's drawings portray also a desire to plunge into life, to give to it accentuated pageantry (Figure 15).

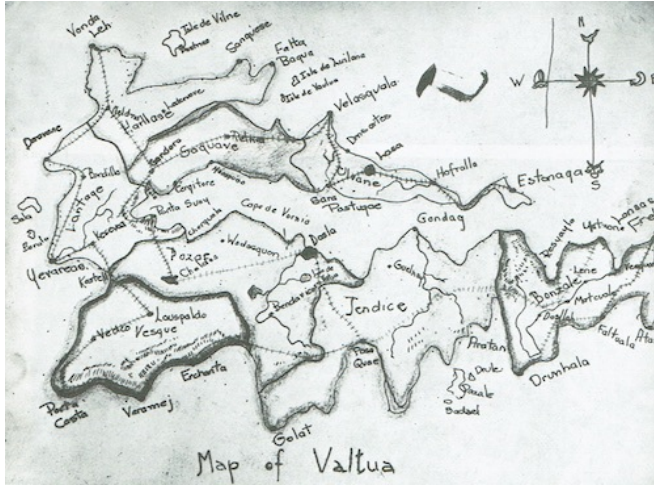


Figure 14



Figure 15

Lucille portrayed also a desire to escape into a fairy-tale world

different from her reality. In Figure 16, castle and ships, friendly waves, sirens, and moons are put together to signify a world without anxiety, a place where we too, like the girl on the ship, would like to land. But the patient did not land there. Figure 17, made at the beginning of the illness, portrays already the patient's conflict. Woman is the protagonist. The theatrical setting discloses the drama of woman, as lived by the patient. Woman appears in various poses that reveal grace and beauty in the majesty of the stage of life. But let us look at the two couples in the center of the picture. Strangely, each couple does not consist of a woman and a man, but of two women: one more energetic, not fully dressed, and another one typically feminine in a beautiful evening gown.



Figure 16

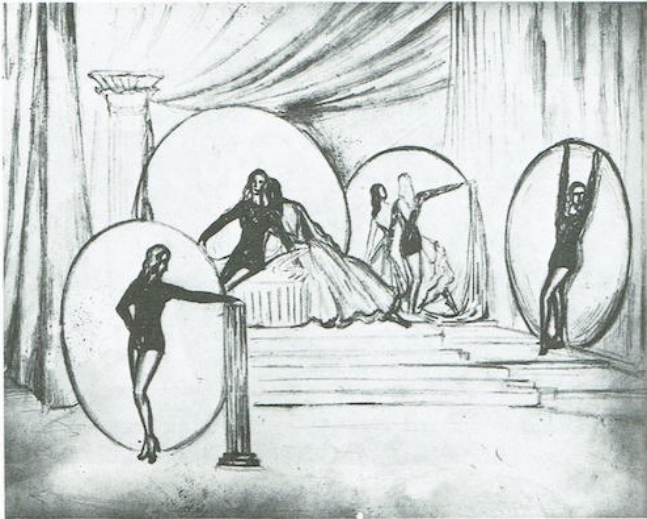


Figure 17

The illness progresses, as shown by Figure 18. Here athletic

women have incongruously masculine physical characteristics. Now the desire to be a man can no longer be repressed by the patient, who had tried to fight her own homosexuality. At this point Lucille ceases to be an artist and becomes a schizophrenic patient. There is here no artistic blending of femininity and masculinity, no artistic synthesis and reintegration but bizarre concretization and schizophrenic fusion, which the observer is not going to accept. The illness progresses and the sexual orientation manifests itself, not as it does in common homosexuality, but in schizophrenic forms. The patient desperately tries to rebuild the image of woman, but let us see what happens. Figure 19 is a typical schizophrenic drawing. Bizarreness in the formalism, regularity in the irregularity, mannerism and distortion are seen in what is supposed to be a woman, or Woman. Again the left arm and hand, which are often symbols of homosexuality, appear bigger than the right heterosexual arm. The hebephrenic illness progresses and dilapidation occurs. Figure 20 shows that the patient is no longer able to form wholes. The profiles of women are hardly recognizable. Woman has now undergone advanced schizophrenic fragmentation. The patient can no longer be helped. She is totally smashed by the weight of her psychological problem; she had searched for a solution

but had found none—no mythical country of Valtua, no fairy land, no women’s liberation.



Figure 18

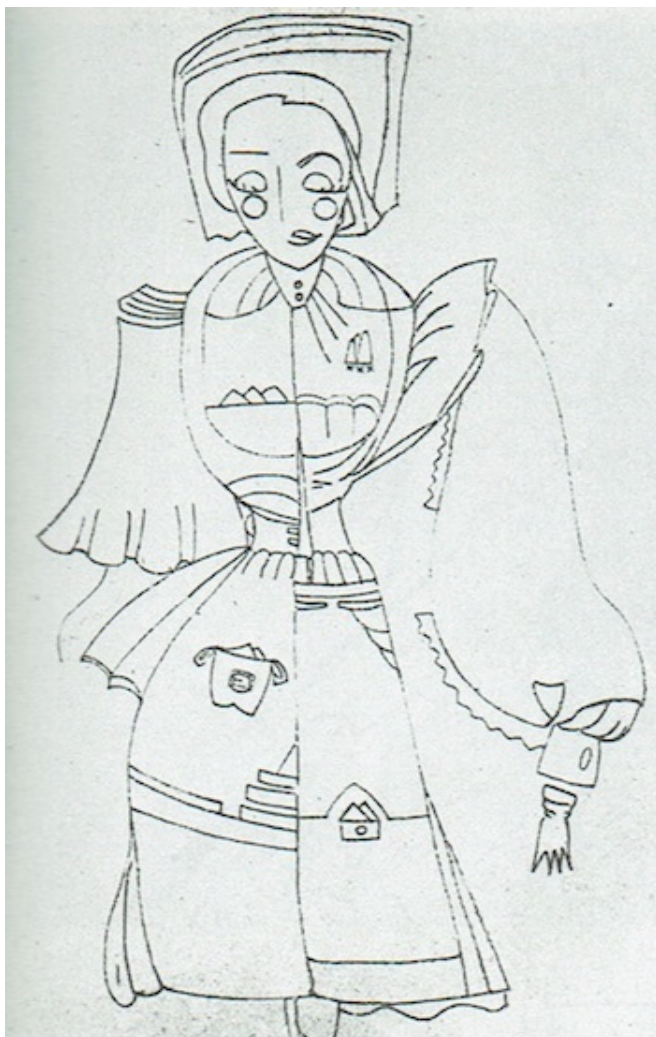


Figure 19



Figure 20

And yet our imagination wanders in the realm of theoretical

possibilities. Had Lucille been helped by psychotherapy to accept her problem, had she revealed her secret to her mother and father, had society not shown her that intolerance and shame were connected with the intimate part of her individuality, had the hospital been a therapeutic community and not a forced confinement, had her therapists (of whom I was one) not been so young (we too were in our twenties, were residents in psychiatry, and were not yet trained psychodynamically), she might have uplifted the burden that crushed her tender spirit.

A case in which this transformation or deterioration of forms occurred in a period of a few hours has been described by Crahay and Bobon (1961). These authors described the case of Octave, who developed an acute and severe schizophrenic episode that required five months of hospitalization. The authors have since followed the patient for seven years and consider him recovered.

When Octave was 7 years old he saw his father for the first time. His father had returned home after having been a prisoner of war for a few years. His father died when Octave was 11 years old, and so Octave knew his father only for about four years. With the death of his

father he lost somebody “with whom he could talk.” He witnessed then with great distress a metamorphosis of his mother. She became “a sort of man,” and at the same time a person who sacrificed herself to help her children. Octave became a student of architecture. At the age of 18 he became acutely ill. During the episode he was incoherent and claimed he was soon going to marry a girl whom he had occasionally seen at the railroad station. During a session that took place during the acute stage of the illness, he made some drawings that reproduced the experience he had dramatically lived.

The following is a summary of the episode, as reported by the authors. What is in brackets has been added by me. The report discusses thirteen drawings made by the patient, which were selected from a total of thirty.

The subject of the woman first appears in a dozen distinctly erotic nudes, skillfully drawn in black pencil with artistic excellence. Then the graphic is gradually disconnected from the real object: the woman is completely transformed into a violently red-colored, ambiguous, bisexual being, loaded with culpability and aggressiveness. [She appears devilish; her feet having an animal-like or demonic form.]

The succeeding drawings [representing a male figure;

perhaps the patient himself, having, however, big breasts like a woman], where red and black alternate, progressively deviate from naturalistic representation. The human being is dislocated, dismembered; only a huge eye, a greedy mouth with enormous teeth, and fingers resembling these teeth (paramorphism) remain. The general form retains a certain dynamism but becomes more and more schematized, geometrized, and destructurized, and finally disintegrates into a complete scrawl, the result of an almost pure motor outburst. [To me the last drawing seems to reproduce a swastika: a nude human being has been actually transformed into the Nazi emblem, possibly the symbol of evil. Remember that the father of the patient had been taken prisoner during World War II, presumably by the Germans, and had died a few years after his return.] At this moment the patient is in a condition of extreme agitation; he is anxious and semi-confused; speech is incoherent, and he has to be isolated. The drawings, in their succession, are particularly expressive and eloquent; they do not only depict the preferred contents of the usual pathologic condition but also convey the progress of a depersonalization crisis, where reality, first experienced as controlled imagination, gradually becomes disorganized and dehumanized in the abstract and finally dissolves up to the point of disappearing. The drawings also raise the problem of the formal modifications of spontaneous artistic expression in relation with the distortions of the patient's experience.

We must at this point mention that the mobilization of the

primary process form of expression often starts before the illness manifests itself clinically as schizophrenic in nature. We have already mentioned that Karpov (1926) and Vinchon (1926, 1950) reported that the pathological art may occur before the onset of the overt psychosis. Patient Henriette may illustrate this point. She came for therapy at the age of 19 at the request of her family. She had dropped out of college and felt no motivation to go to school or to work. For several months she had as a boy friend a psychopath who used and pushed drugs, would occasionally steal, and eventually died of an overdose. Henriette occasionally helped him to get out of trouble at her own risk. Henriette's identity was made more difficult by the fact that she had an identical twin sister. Like her twin sister, she felt rejected by both parents and was unable to relate to anybody except her sister. Her only satisfaction was in drawing and painting. She was unusually intelligent and deep in her feelings, but she felt she could not sustain any psychological effort. She would always yield to immediate pleasure or a quick solution. When she first came for therapy, she seemed at first oriented more toward a psychopathic pattern of behavior. She would often draw or paint flowers that appeared to be distortions of real ones, even though they were similar

to natural flowers. The patient used to say that she wanted to create and not reproduce reality.

To remove her from her boy friend the parents sent her to live in another city, and she interrupted therapy. On her return a few months later, she was much worse. Although not clear-cut, schizophrenic symptoms were evident; quasischizophrenic symptomatology was prominent. She would say that occasionally in the subway she felt *as if* people were talking about her or looking at her. She knew it was not so, but nevertheless the experience made her uncomfortable. In the subway she would see people who looked like other people she knew, and often she had them confused. She had to go through the trouble of seeing whether these people were really the people she knew or not. These symptoms were indications that primary process cognition (like projection, confusion of similarity for identity, and so forth) would threaten to come to the surface. However, as a whole she managed to maintain a fairly integrated ego and did not appear schizophrenic to anybody except the therapist. It is in her artwork that pathology clearly appeared. After a long period during which she painted unrealistic flowers, she painted geometrical, simple designs, either as a form of relaxation, or perhaps to preserve some regularity in her

disorderly experience of life. At the same time she painted different subjects in unusual ways, for instance, repulsive faces (Figure 21). Figure 21B was supposed to represent a hand; but what was intended to be a finger looked like a hat and inspired the patient to make a head out of a hand. Figure 21C represents a vase, which is also a head. In the ears of the central face she saw other faces. We have here again the irresistible need to succumb to similarity. The orgy of similarity, however, does not introduce her to an artistic transformation of reality. Whatever comes from reality is made worse and is magnified in its negative aspects. She portrays a world of repulsive ugliness from which she wants to escape. This world is made worse by her illness, and she finds herself trapped in it. After the marriage of her twin sister, on whom she depended so much, Henriette became worse. She felt threatened, isolated, incapable of fulfillment. She interrupted therapy again and had a full-blown psychotic episode, with delusions and hallucinations that were grandiose and religious in content. The episode lasted six months.

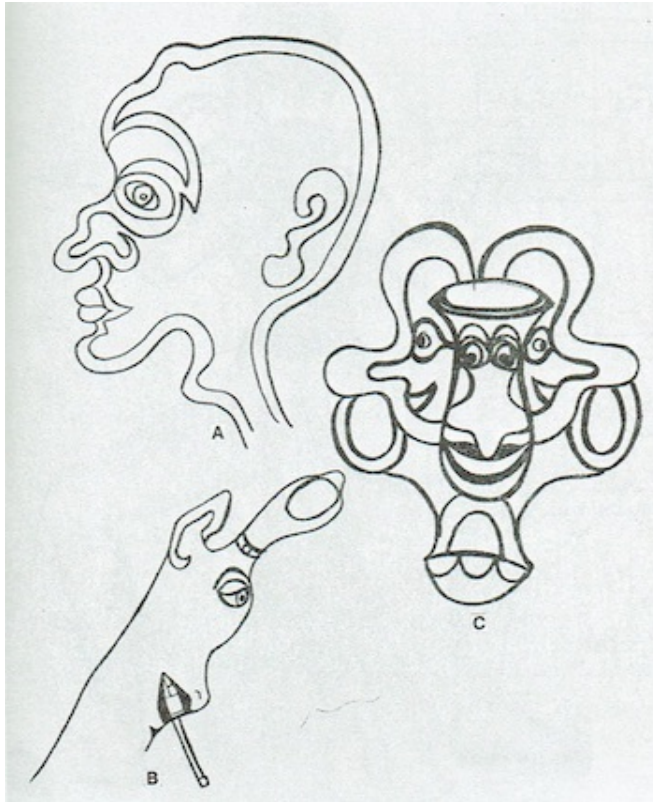


Figure 21

V Crystallization of Primary Process Mechanisms

The previous examples have shown how even the schizophrenic who draws or paints for the first time in his life may immediately find at his disposal an emerging personal style and a new technique. At first

the style is mixed with the ones he observed in his cultural background. Relatively soon, however, as the detachment from the environment increases and the illness progresses, regressive forms prevail and give to the art product its characteristic pathological aspect. Finally the work of art becomes crystallized in typical schizophrenic forms. Even the motivation to draw a specific object seems overpowered by the laws of schizophrenic cognition.

In some of the examples given there was a complete application of Von Domarus's principle. For instance, in the case of Gaston, the father was identified with the rhinoceros because of his terrifying quality. In the case of Pauline, the palette was identified with the womb because of similar shape and similar creative possibility. But the most characteristic feature of schizophrenic art is a partial application of Von Domarus's principle. Some partial identity among the subjects is based upon partial or total identity of a predicate or a part. In these cases, we have no total identity but fusion or condensation of two or more subjects. Figures 22 and 23 are drawings made by a female patient with unresolved homosexual conflicts. She sees herself as a devil. The tail and the snake are phallic symbols.



Figure 22



Figure 23

The condensation assumes more bizarre forms when no unity is reached; that is, when the different subjects, although fused together, fail to identify with one another or to converge into a unity. The

disparate elements do not produce a harmonious combination but a bizarre product (*une bizarrerie*), as in Figure 24. We shall focus on the central and main part of the picture. Because they are all strong, an ancient warrior, a horse, a mythical bird, mountains, and people are partially identified and fused. The patient wants to convey an ideal of grandeur and strength. Somehow the artist fails to convince us; his inner world does not evoke in us a sense of participation. However, although no universal chord is struck, the work is not without merit. We sense in it the presence of mysteriousness and grandeur. We would be willing to accept the mysteriousness and grandeur, but not the pathology that is connected with it. What is private here, what pertains only to the artist's way of seeing the world, is more prominent than what elicits collective resonance. The patient has failed to convince us, because he has not been able to control the eruption of primary process mechanisms. Their emergence was so strong that the various elements of the work of art became fused, in spite of the fact that such fusion was unacceptable to mental mechanisms that follow the secondary process.



Figure 24

Schizophrenics soon learn the technique of fusing together numerous subjects, and the results at times are the most strange and the most unpredictable. Figure 25, reproduced with permission from a work by Bobon and Maccagnani (1962), shows how with the progressive fusion of six original words and images (the fish, the girl, the nipple, the caterpillar, the cow, and the steam engine) the patient produced an amazing list of neologisms and neoformisms. Here Von Domarus's principle and primary process mechanisms reach extreme supremacy, and the result is completely unacceptable to the secondary process of the normal observer.

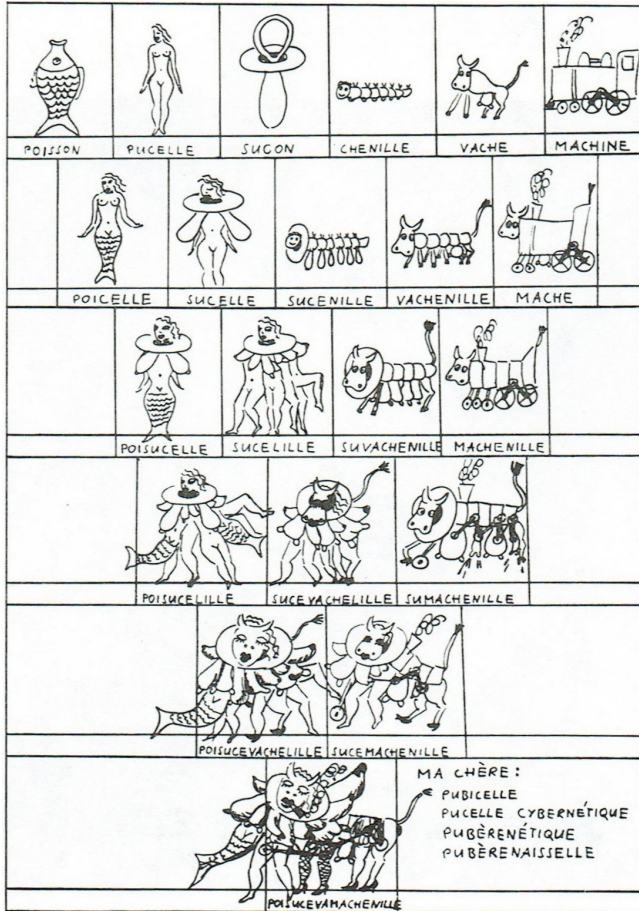


Figure 25

But this is not always the case. In the following illustration (Figure 26), the fusion is almost acceptable and may be considered not schizophrenic condensation but creative synthesis. The patient was a

30-year-old woman who, during her psychosis, thought her husband was the Messiah, she the Virgin Mary, and her child the Holy Ghost. It is relevant to mention that she was a teacher of art and always felt in competition with her husband, who was a painter. She felt alone, in spite of the fact that she was married and had a child. She reminds me of a patient of Frieda Fromm-Reichmann's who, as I have reported elsewhere (Arieti, 1969), walked with a finger extended and the other fingers flexed over the palm of her hand. Fromm-Reichmann did not interpret this gesture as others would have. For her, the extended finger was not a phallic symbol, nor did it indicate penis envy. It meant, "I am one: alone, alone, alone!"



Figure 26

It is easy to understand why I was struck by the similarity with Fromm-Reichmann's patient. What does the drawing represent? A finger? A hand? An arm? A female body? It is all of them in a creative fusion. The fusion portrays unity: being one and alone and walking in

the spiral world. Will she be able to walk in the circular paths? The spiral threads interfere between her legs and perhaps will not permit the woman to go ahead. But more than that. Looking closely, one can see that the path of life seems to originate from her, like a tail of an animal above the buttocks. At a certain point it reaches the hand, and the hand holds it, almost to control it and direct it. But the whirl of life forms something like a cocoon or a cage, and she becomes a prisoner. Thus she recognizes that she is sick; she points out that she is sick, alone, and isolated.

But let us continue our analysis. The extended finger, which represents her and says that she is alone, says something else. It is pointed toward somebody else; it seems to say "You." The finger thus says, "I" and "You." Probably it says in a paranoid way, "You, the other, did this to me." But we would be poor therapists if we would stop at this manifest content. We must interpret it in an additional way: "You, you, fellow human being, must help me, you, you must." This is the message she was sending. Her message was heard. The spiraling life that imprisoned her in a cage of autistic solitude was transformed by therapy into a place where she could commune with people.

In Chapter 16 we have seen that when schizophrenic regression goes beyond the level of Von Domarus's principle, objects and their mental constructs are no longer identified or fused, but put together to form "primary aggregations."

In language the primary aggregation assumes the form generally called "word-salad." In artwork it is represented by drawings and paintings that portray strange agglomerations of disparate objects. Figure 27 was made by the same patient who made the drawing shown in Figure 24. The patient is now at a more advanced stage of illness. We cannot call the drawing shown in Figure 27 a collage, because it lacks cognitive or aesthetic unifying principles. In Figure 27, as in Figure 24, expressions of grandeur recur in visual forms: cathedrals, castles, mountains, high stairs to be climbed. The patient wants to escape from the world of mediocre reality but somehow does not convince us to be his companions.



Figure 27

As the schizophrenic process continues, condensations and primary aggregations become more and more fragmented. Many

phenomena of progressive disintegration occur. It is important to emphasize, however, that the tendency toward progressive fragmentation of units is resisted with some defenses similar to those that occur in patients' thinking processes. These defenses slow down the process of disintegration and confer to the work of art some typical schizophrenic features. They are all related. The most important are mannerism, ornamentation, simplification or stylization, stereotypy, spatial alteration, overfilling, and infantilization. Mannerism is perhaps the most typical. "Manneristic" generally means excessive adherence to style or to the influence of another school or artist. But the mannerism of the schizophrenic comes from inner sources, resembles that of other schizophrenics, and seems to have the purpose of filling an empty life with formalisms and decorations. In some cases the formalism and stylization are almost acceptable, as in Figures 28, 29, 30, and 31. Stereotypies and archaic features are evident in Figures 30 and 31.



Figure 28

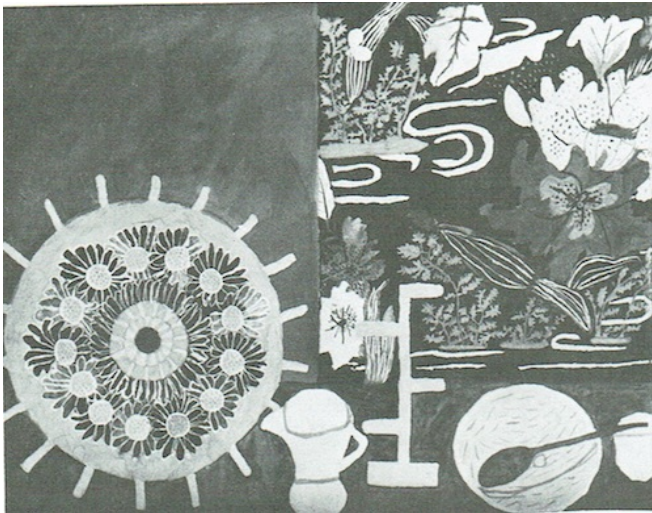


Figure 29



Figure 30



Figure 31

In other cases the results are less acceptable, although at times the technique is vaguely reminiscent of that used in some forms of modern art. Figures 32, 33, 34, and 35 illustrate typical schizophrenic formalism and stylization.



Figure 32



Figure 33

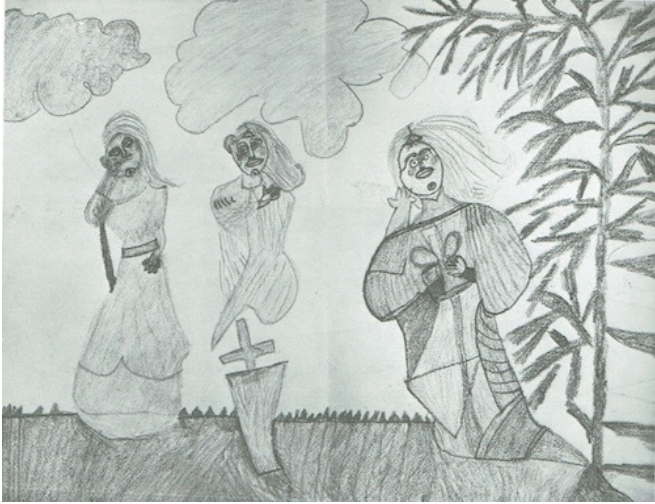


Figure 34

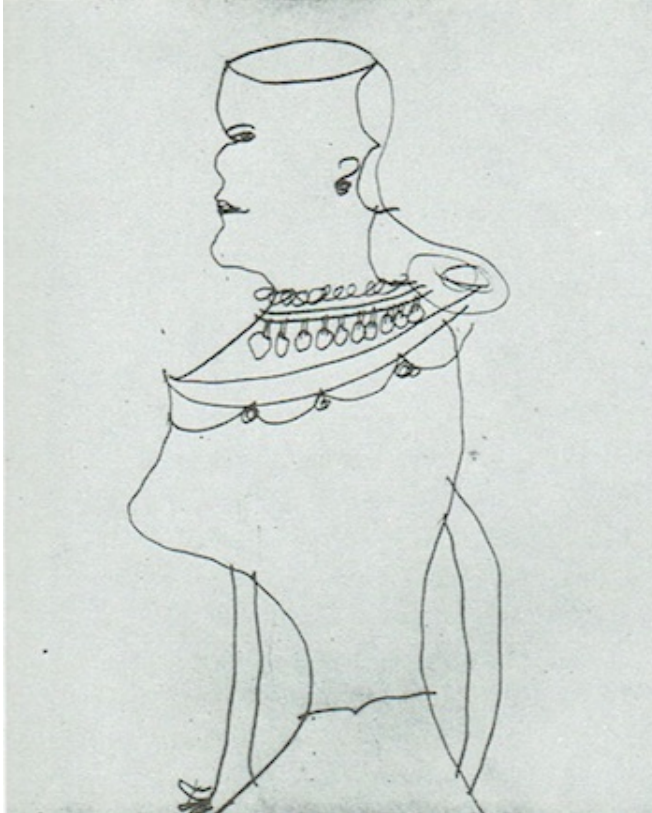


Figure 35

Stereotypy is an attempt to arrest the flux of the world. Reality escapes and has to be stated and restated many times, as in Figure 36, which is reproduced with permission from the collection of Enzo Gabrici.

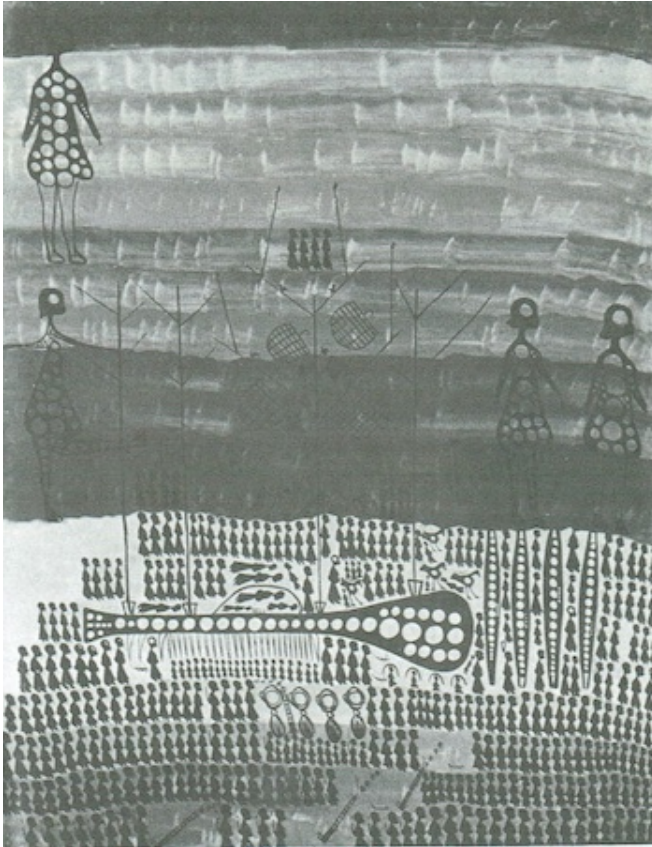


Figure 36

In the state of flux in which the patient sees the world, it is difficult for him to register natural spatial perspectives. Each element or part may be abstracted from the rest. Actually this is not real abstraction but the most concrete way of seeing the world. For

instance, in Figure 37 each fruit is conceived, perceived, and drawn by itself, with no respect for spatial relation with the other objects.



Figure 37

Some writers, for instance Billig (1957, 1968), speak of transparency, or X-ray pictures, in such cases as when the schizophrenic draws the interior of the house and the facade at the same time. Again it is not a question of X rays or of transparency but of disregard for spatial interrelations. Like the painter of modern art, the patient represents what occurs in his mind by association and not in accordance with the law of geometry.

An additional characteristic of many schizophrenic artworks is infantilism. Infantilism may appear in the content, as it does in Figure 38, where the watermelons are as big and abundant as the patient's desire to eat them. It may manifest itself in regression to infantile forms, as it does in Figure 39, which shows how an adult patient represents his family.

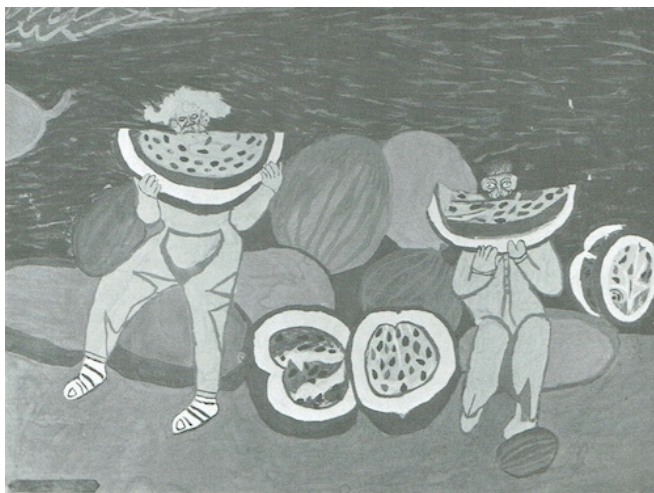


Figure 38



Figure 39

VI Artwork of Patients Suffering from Schizophrenic-Like Toxic Psychoses

Difficult to recognize as nonschizophrenic are works of art made by patients suffering from toxic psychoses, especially as a consequence of mescaline and LSD. The picture shown in Figure 40 was made by a patient recovering from toxic psychosis, probably due to LSD. He said, however, that he made this drawing under the influence of the psychedelic world.

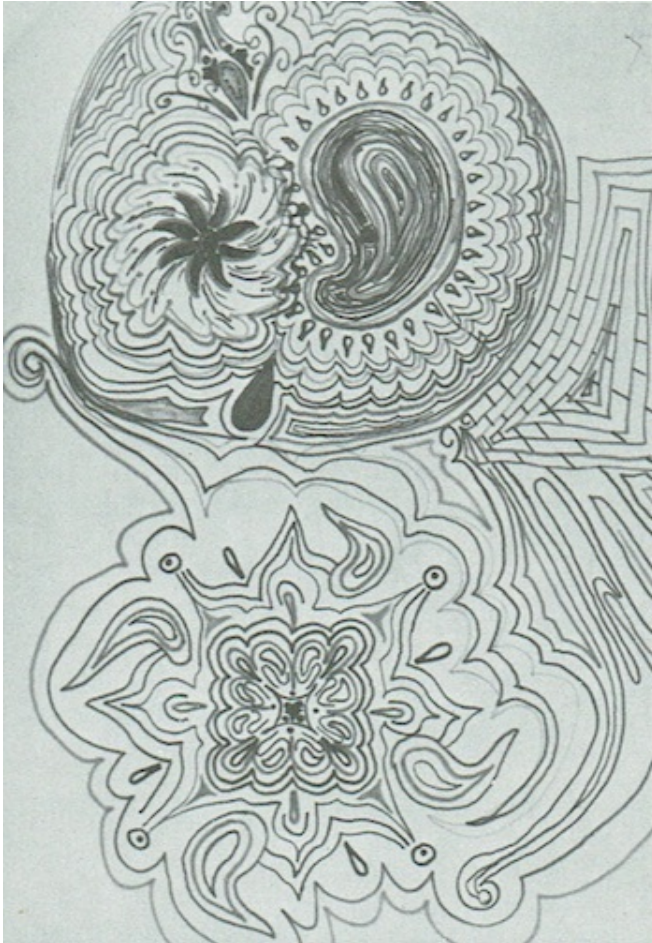


Figure 40

The next three pictures (Figures 41, 42, and 43) were made by a patient who, after recovering from alcoholism, became addicted to amphetamines, turbine hydrate, marijuana, heroin, morphine, and

nutmeg. He stated that he never took LSD but claimed that people gave it to him. He had many delusions of persecution. He thought people wanted to kill him. In his despair he attempted suicide by stabbing himself in the neck, chest, abdomen, and arms. Figure 41 portrays the theme of being buried alive after the long, descending journey of life. In the coffin he would not be able to see the sun and the stars. Figure 42 repeats the paranoid theme of the evil eye, which watches, condemns, persecutes, and traps poor people. The persecutory eye becomes a spider in whose web fly-people are caught. Here we have again the phenomenon of the double vision: the eye becomes a spider. Figure 43 shows an improved outlook. The person who is provided with a benevolent eye is now a domestic animal—donkey or horse—representing the patient. The animal is able to bear the big burden of life.



Figure 41



Figure 42



Figure 43

As a rule of thumb we may state that in psychosis caused by drugs the conflicts of the person and paranoid ideation are similar to those appearing in schizophrenic psychoses. However, the artwork

shows a sense of completeness and integration uncommon in regressed schizophrenics.

VII

Relation of Schizophrenic Artwork to Primitive, Ancient, and Modern Art

From the pioneer works of Simon (1876, 1888) and Lombroso (1880) to those of Kretschmer (1934), schizophrenic works of art have repeatedly been compared to those of primitives and ancients. Kretschmer referred to what he called “imaginal agglutination” in the mythology and art of ancient Egypt, India, and Greece. In those cultures we can find many examples of composite figures, such as centaurs, sphinxes, fauns, griffins, sirens, and so forth. Egyptian deities were often represented with heads of snakes, frogs, or other animals. In Christian art, too, angels are represented as human beings having wings like birds.

Stylization, geometrical simplification, bilateral symmetry, repetition of forms vaguely reminiscent of schizophrenic productions prevailed also in Egyptian, African, and Indian sculptures.

It is also worthwhile to compare schizophrenic art to the modern art of Western culture, which also departs from objective reality and opens up new worlds. It has been said that the modern artist relies for inspiration not on external reality and outer space but on his unconscious inner space. Not only does he allow inner conflicts to come to the surface—the conflicts that other people would suppress, repress, or disguise because they are not acceptable to society—but also the forms of the primary process that are rejected by the logical mind. This topic is too vast to be treated adequately in this book. Certainly the similarities are striking, especially in expressionistic and surrealist painters. A comparison between surrealism and schizophrenia has been made by several authors (for instance, Roi, 1953).

The case of Salvador Dali is one of the most typical. Not only do his paintings afford an opportunity for a study like the present one, but his own writings on the subject are very illuminating. Dali referred often to his own paranoia and wrote, “. . . all men are equal in their madness . . . madness constitutes the common basis of the human spirit.” I believe that what he calls “the common basis of the human spirit” is the primary process; it is not Plato’s universals but the

fantastic universals that Giambattista Vico described. Dali seems to have access to the mechanisms of the primary process more than many other painters. One of these mechanisms is the phenomenon of the double image. An image suggests, or turns into, a second and possibly a third one, instantly or after some contemplation.

Let us take, for instance, a drawing by Dali of a hamlet, a copy of which the author owns. The picture portrays a group of homes, a small village, protected from predatory birds: the rest of the world. A tree in the middle beautifies this little oasis of love and harmony. But if we view the picture in its totality it represents not a hamlet, but man himself. We may also distinguish the vertebral column, the trunk, ribs, arms, and legs. Man is identified with the hamlet because of the similar shape; each part of the hamlet is identified with a similarly shaped part of man. Some observers may also see a phallus in the act of ejaculation.

Here Von Domarus's principle is applied visually. We do not deal with identical predicates, but with visually similar parts that lead to the identification. The result is that man is identified with his habitat or with his social nature. This phenomenon of the double or third

image occurs frequently in Dali's works—for instance, in such a well-known painting as *Apparition of Face and Fruit Dish on a Beach*. The mysteriousness of the metamorphosis, as made possible by the primary process, is appreciated by Dali, who does not consider the phenomenon as merely a game. He suggests that the hidden image may be reality itself. In “La Femme Visible” he wrote, “I challenge materialists ... to inquire into the more complex problem as to which of these images has the highest probability of existence if the intervention of desire is taken into account” (quoted by Soby, 1946). Dali correctly believes that paranoiacs (but of course in this category he includes also paranoids) have “a special capacity for the recognition of double images inasmuch as their disordered minds are hypersensitive to hidden appearances, real or imagined.” [\[1\]](#)

If we think of some of the schizophrenic drawings referred to in this chapter (the palette that becomes a womb, the eye that becomes a spider), we must agree with Dali. Is Dali paranoiac? Is he paranoid? Not in a legal or clinical sense. As he expresses himself in his writings, he has “his own paranoia.” I interpret his words as meaning that he has a unique accessibility to the primary process. Generally people who have such accessibility are psychotics who partially or totally

have lost contact with the secondary process. But Dali is exceptional in that he retains complete contact with the secondary process, so that the secondary process is able to control the primary. This control is well demonstrated in his paintings, which disclose an overall pattern of exactitude, superimposed on an absurd content. The almost photographic exactitude that gives an aspect of reality to many of his paintings not only strikingly contrasts with the absurd content but also mingles with it in an unparalleled way. Thus Dali maintains an aesthetic distance that the schizophrenic does not possess. On the one hand, he seems to be an explorer of a primary process land who comes from a country where the secondary process reigns; but, on the other hand, we know that this primary process land is Dali's own psyche. Dali explores himself as an artist does, not as a scientist. What we experience in his paintings is not scientific or old-fashioned clinical distance but aesthetic distance in the sense that no matter how naked the primary process is, it will still permit the hand that holds the brush to be guided by the secondary process.

I believe that psychiatry owes a debt of gratitude to Salvador Dali. By making available in pictorial medium "madness ... as common basis of the human spirit" he has reasserted the universality of the primary

process and has shown that schizophrenic madness has intrapsychic origin. Psychodynamic forms transmitted by the environment trigger the mechanisms of the primary process and become mediated or channeled by them.

Of course, imitations of primary process may be carried out through the secondary process, by imitators and second- and third-rate artists. Culture itself may adopt primary process ways and use them as secondary process cultural characteristics; but this important topic will be the object of a future study. I shall simply mention that permissiveness toward the unique, the original, and the irrational, which has become so prominent in some avant-garde segments of society today, makes it more difficult to distinguish schizophrenic art from nonschizophrenic art. Just as delusional or irrational myths have been accepted by many societies throughout the course of history, some forms of art may accept pure expressions of primary process and disregard those of the secondary. However, not only in Dali but in all great artists we find no disregard for the secondary process, nor disharmony between primary and secondary process; instead we discover fusion. These matchings or special harmonious combinations of the primary and secondary processes constitute what I have called

the tertiary process. In *The Intrapsychic Self* (Arieti, 1967) I have described the various ways by which these matches and combinations occur in various fields of creativity, such as wit, poetry, religion, and science.

In modern art we find that the artist plunges much deeper than usual into the primary process, as in the case of Dali. But no matter how deeply he plunges, the artist resurges to attune his work with the secondary process. Thus what at first seems to be a private experience receives a collective consensus. The artist allows himself to be alone and lonely, but only to a degree that facilitates the emergence of his own individuality, not to a degree that necessitates desocialization. He makes the details merge into a unity, the parts into a whole, and forces the concrete to become the incorporation of the abstract.

In conclusion I wish to express the opinion that schizophrenic art teaches us basic facts and basic values that transcend schizophrenia. The basic facts are the primacy of the primary process as a universal human phenomenon and, in particular, its emergence and role in the tertiary creative process.

The basic values concern the bond between those human beings who achieve the pinnacles of creativity and those human beings who are seriously ill and in some cases locked in back wards of psychiatric hospitals. Great artists and the mentally ill are shaken by what is terribly absent in our daily reality, and they send us messages of their own search and samples of their own findings. The schizophrenic cannot send us the message of peace and beauty of a *Mona Lisa* or a *Birth of Venus*, and very, very seldom is he able to transform his personal need into a spiritual vision. Often we have a hard time retrieving in his work even a trace of aesthetic pleasure. And yet, in some of his works, we hit unsuspected treasures of concentrated meanings. In some others we can get to share the worldwide threat, the unmitigated sorrow, the secret despair, the childish wish, and the hopeless concern, even if expressed by the secret eye (Figure 13), the watermelon bonanza (Figure 38), or the enigma of mixed sexuality (Figures 17 and 18).

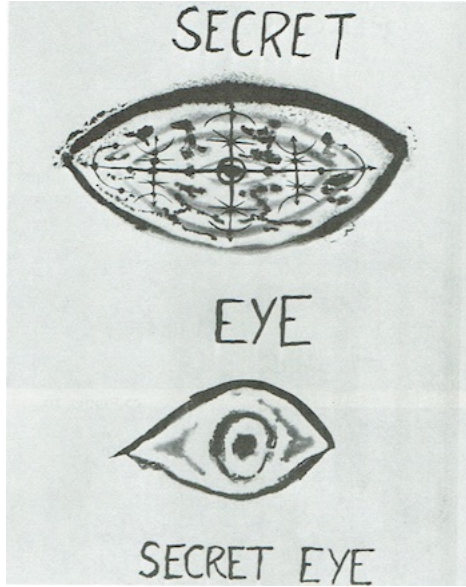


Figure 13



Figure 38

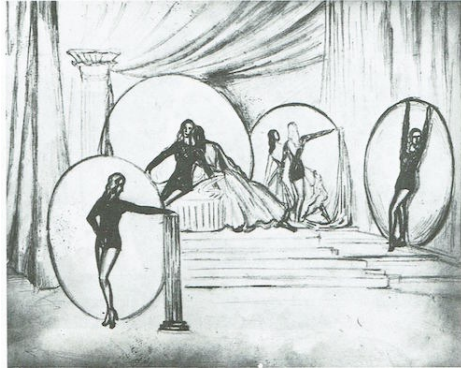


Figure 17



Figure 18

VIII Poetry

Poetry is a form of creativity that appears relatively frequently in schizophrenic patients. It has not received as vast consideration as visual art for several reasons: (1) it is less frequent; (2) it is less conspicuous; (3) it blends often imperceptibly with other language

and thought characteristics of the psychotic.

Relatively few are the reports in the literature. Noteworthy from the point of view of psychodynamic content is the case of Harriet, an 18-year-old schizophrenic girl whom Naumburg (1950) studied particularly in relation to her visual art. The themes of death and rebirth that appeared in Harriet's paintings were also present in her poems, which did not show schizophrenic characteristics. Harriet recovered. A second case reported by Naumburg is that of a 25-year-old girl who was particularly interested in visual art and wrote poems that revealed a well-integrated and deep-feeling person. Poems of patients have been reported by Fromm-Reichmann (in Bullard, 1959) and other authors in the context of psychodynamic studies only. Grassi (1961) studied the poems written in Italian by a 29-year-old paranoid patient. Although these poems showed the characteristic language and thought disorders of the schizophrenic, some fragments of them retained intense aesthetic beauty. Grassi pointed out that some characteristics, like lack of adherence to such things as grammar, syntax, and punctuation were not an attempt on the part of the patient to follow the schools of modern poetry but were indications of schizophrenic disintegration. The content of the poems belonged more

to the romantic era than to modern poetry. The patient also wrote some poems in a new language, a pseudo-French that was actually Italian with some added characteristics of the French language.

Forrest (1965, 1968) has made an accurate study of schizophrenic poetry. Forrest sees many similarities between real poetry of the best-known poets and the language and poetry of the schizophrenic patient. He agrees that not only the psychodynamic need is important in schizophrenic productions, but also the adherence to a paleologic rule. The schizophrenic and the legitimate poet “bring to the words the authority of a phonetic order.” Forrest states that there are several differences between normal poets and schizophrenics who write poetry:

1. The normal poet is still able to distinguish the word from the object represented by the word.
2. “The poet is a master of language, and the schizophrenic, even more than everyone else, is a slave to language. . . . The poet’s purposes are triumphant in language, but the schizophrenic’s purposes are often lost in or originate in language, to a greater degree than most people’s.”

3. The patient has difficulty in distinguishing levels of abstraction and differentiating concrete from abstract.

In previous writings (Arieti, 1955, 1966a) and especially in Chapter 21 of *The Intrapsychic Self* (Arieti, 1967) I have discussed relations between schizophrenia and poetry. Any reader who is interested in the relation between primary process and literary creativity is referred to that chapter. Here I shall mention only a few of the main points.

What was said previously in this chapter about visual art could be repeated in relation to poetry. Schizophrenic poetry discloses a struggle between psychodynamic content that searches for expression in artistic actualization and the specific linguistic media that are available to the patient. Inasmuch as the normal poet, too, uses cognitive media that derive from the primary process, the similarities between his poetry and schizophrenic productions are impressive. On closer analysis the observer soon realizes, however, that whereas the poet integrates primary process mechanisms with those of the secondary process, to achieve a tertiary process product, the schizophrenic most of the time cannot. Whereas the poet is aware that he substitutes the abstract with the concrete, the patient is not. The

metaphor is not a metaphor for the patient. Like the delusional patient, the poetic patient lives a metaphorical reality. Some forms, usually considered poetical devices, like rhyme, rhythm, alliteration, assonance, onomatopoeia, repetition, homonyms, and similarities of verbalization are used by the schizophrenic, too, whether he intends to write poetry or to speak in prose.

We have seen in Chapter 16 that in schizophrenic cognition there is an emphasis on verbalization, emphasis that manifests itself in various forms. When the disintegration is moderate, we can still recognize a motive and a content.

The following poem was written by the same patient who wrote the poem reported in Chapter 16.

MOUNTY

Oh Mounty Of The Circus
In Cap And Balloon Dress
How Strangely You Resemble
The One That I Adore
The Feelings You Reveal
Or A Secret you Conceal

Always Envelope

Always Caress

The Man Of Sacred Lore
The One Who Is My Husband.
Toss At Me Your Playful Balls
With Cauliflowers Applaud Me
Knife Thou Me Against The Walls
And With Pies, Dear, Land Me

That Through Thee

I Might Find Him

The Man That I Adore

The Man Who Is My Husband

Oh Mounty Of The Circus.

The poem is difficult to interpret, and the patient could not explain it. The thought disorder and the schizophrenic formulations (like starting every word with a capital letter) are recognizable. In other poems the patient praised the man of the circus who does wonderful things. In this poem she seems to identify him with a member of the Royal Canadian Mounted Police. If the two of them, or the best qualities of the two of them, including “the playful balls,” were combined, they would make “the one that she adores,” the imaginary husband.

In more advanced regression or in acute psychosis no sustained attempt is made to retain a content. The verbalization and the phonetic effect take over, replacing any other consideration, as in the following poem written by an 18-year-old boy:

I think a little
even a chittle
if don't mittle
on the tittle
in the middle
of a diddle
of a kiddie
in my middle
don't you taddle
or I'll saddle
then good bye
good bye.

The patient, once he recovered from the attack, during which he had grandiose religious delusions, said that he wrote the poem in reference to his brother, who used to tell on him, so that he (the patient) was punished and made to feel responsible (saddle). Neologisms and paralogisms abound here.

In his important contribution, Forrest (1965) wrote that the schizophrenic's utterances do not necessarily originate in his emotions or in meanings. They need not be determined by intrapsychic factors, but rather by the exigencies of his language, by relationships, and by verbal characteristics that inhere in the language that he uses.

It is true that the patient, like the poet, finds inspiration from the language; however, he goes further. He creates neologisms. His need to

focus on the verbalization at the exclusion of the connotation comes from an intrapsychic mechanism. To take into consideration again the last example, the English language may have given the possibility to the patient of using certain words, but when he wrote

I think a little
even a chittle
if don't mittle
on the tittle

the supremacy of intrapsychic primary process mechanisms cannot be doubted. Contrary to the real poet, he did not bother to find agreement with secondary process mechanisms. The patient gave exclusive consideration to rhyme and assonance and disregarded meaning, or consensual validation. As already mentioned in reference to severe language disorders; semantic evasion is accompanied by accentuated phonetic formalism.

When the patient becomes more regressed, his "poetic" productions become so disorganized that they cannot be distinguished from word-salad.

Much more important for prognostic reasons as well as for gaining insight into the nature of the creative process is the study of

poems, and of linguistic productions in general, of recovering patients. As I described in *The Intrapsychic Self* (Arieti, 1967), some recovering schizophrenics retain a greater accessibility to the primary process than normal persons and are nevertheless in a position to use the secondary process. Reports of such cases are rare because the examiner has to see them during a special transitional stage that lasts a short time and is easily missed if not looked for.

Such a patient was Rosette, a 13-year-old schizophrenic girl who was admitted to the hospital following an acute psychotic episode in which she experienced hallucinations, delusions, and ideas of reference. Three days after admission, during a routine mental examination, she was asked to explain the difference between character and reputation. She replied, "Character is your personality. Reputation is stamped on and can never be erased. Your reputation is a bed, and when you get in, you can't get out of it. Character is like a bedspread which can be taken off, or character is like dirt on a sheet which, if you wash it, can be removed." The patient was asked to define the word *despair*. She answered, "Despair is like a wall covered with thick grease, and a person is trying to climb up this wall by digging his fingers in. Down below is a deep, bottomless pit. Up at the top of the

wall on the ceiling is a big, black spider. I have been in this deep pit during the past year, but now I am climbing up a rope, trying to get out of it.”

When Rosette was asked to tell the difference between idleness and laziness, she said, “Both have to be present for one to be present. You have to be idle to be lazy, but you don’t have to be lazy to be idle. When you’re idle, you are living physically, but not really living. Laziness is when you give up.” When she was asked the difference between poverty and misery, she replied, “Poverty is poor; misery is agony.”

It is very unusual for a 13-year-old to express herself with such depth. She was not physically mature for her age; on the contrary, she looked younger than 13. Although bright, she did not give the impression of being exceptionally intelligent. And yet her expressions often revealed that uncommon faculties were at her disposal. Her definitions of character, personality, and despair are not those to be found in a dictionary. She did not explain the concept or the connotation of these three words. She defined them by transforming the concept into a constellation of perceptual images. Webster’s

defines despair, for example, as loss of hope—an accurate but also circular and prosaic definition in comparison with that of the patient, who resorted to a sequence of vivid images: the wall covered with thick grease, the person who tries to climb up and digs his fingers in, the bottomless pit, the black spider. The girl's definition is a poetic definition; so are her definitions of character and reputation.

Was Rosette's illness at least partially responsible for her ability to translate concepts into images? Most probably. She was in that rare condition where both primary and secondary processes are accessible and can be coordinated. We know that some poets, artists, as well as some preschizophrenics and addiction-prone people have tried to obtain similar states by alcoholic intoxication or the use of opium, marijuana, mescaline, LSD, or other drugs. Mescaline or LSD may also produce mental conditions reminiscent of the one experienced by Rosette. The trouble with these artificially induced conditions is that they either do not regress sufficiently to a primary process level, or, if they do, they lose the use of the secondary process or the capacity to coordinate it artistically with the primary.

The particular state of Rosette permitted her to change from a

language of classification (or of concepts) to a language of experience, for instance, when she gave definitions of character and despair. Her language was certainly not based on classifications or ideas prevailing in her social environment. In addition to visual imagery, other aesthetic characteristics were recognizable in the statements of this girl. One was the emphasis on verbalization, which appeared, for instance, when she explained the difference between idleness and laziness. As she started to define the words, she had the idea, which she later discarded, that idleness and laziness are correlational terms—that is, one cannot exist without the other (for example, the words *husband* and *wife*). Bertrand Russell, in his *Introduction to Mathematical Philosophy*, calls this a one-one relation. How much more beautiful is the girl's definition: "Both have to be present for one to be present." The contrast between the words *both* and *one* and the repetition of the words *to be present* confer aesthetic qualities on her expression.

This girl actually contradicted herself almost immediately when she stated correctly that "You have to be idle to be lazy, but you don't have to be lazy to be idle." Here again the repetition of the same words gives rhetorical emphasis. In the rest of her reply, "When you're idle,

you are living physically, but not really living,” she achieved an aesthetic effect by repeating the word *living*, which assumed a different meaning. “Really living” meant to her a full living, one not compatible with idleness, which permits living in a vegetative way. When she was asked what the difference is between poverty and misery, again she gave an artistic definition. The usual dictionary definitions are “state of being poor” for poverty and “state of great distress” for misery. Rosette includes these definitions in hers, but offers much more: she succeeds in accentuating the contrast between poverty and misery. *Poverty* is a *poor* word in comparison with *misery*, which has much stronger affective associations, evoked by the word *agony*.

It is not enough to conclude that this girl had greater accessibility to the mechanisms of the primary process. We must recognize that she was also able to make good selections among the various possibilities offered by her primary process and that she could coordinate them with secondary process mechanisms.

Another patient, a 35-year-old poet, occasionally experienced quasischizophrenic episodes that were elusive in nature; often it was

difficult to determine whether she was in a psychotic state or not. At times her poems almost resembled schizophrenic word-salad; at other times they had a genuine beauty. They were nevertheless always difficult to understand, like much of contemporary poetry.

At the beginning of this woman's treatment she used to speak of human beings as worms, and she wrote poems in which they were represented as worms. Her ideas could have been accepted at a metaphorical level except that she insisted that people really were worms. It was impossible to determine whether the statement was made in a metaphorical sense or not. There was a flavor of literalness in her remarks; even if she meant "worms" metaphorically, there was a resolute attachment to this metaphor, as if it literally represented reality. Her expressions seemed to me to belong to an intermediary stage, hard to delineate, between metamorphosis and metaphor. As her condition improved, she wrote poems in which the metaphorical meaning of the word *worm* could no longer be doubted.

IX Comedy and Wit

Occasionally the patients' remarks appear witty, just as their

appearance and demeanor do. But we must remember that what appears comic or witty to us is not so for the patient, who means literally what he says, expresses, or does. We cannot therefore speak in these cases of real creativity. We have already mentioned the patient who had the habit of wetting her body with oil. Asked why she did so, she replied, "The human body is a machine and has to be lubricated." The word *machine*, applied in a figurative sense to the human body, had led to her identification with man-made machines.

A creative process is not involved in what this patient said. She did not know that her explanation was witty; she meant it literally. Her delusional remark is witty only for us. Apparent witticisms of schizophrenics have been reported in the literature. These witticisms generally result from paleological identifications or from extreme literalness, which follows reduction of the connotation power and emphasis on verbalization.

One of Levin's (1938a) patients believed that she was in a ward for blacks. Asked why she thought so, she replied, "Because I was brought here by Miss Brown" (the nurse who had accompanied her to the hospital). A patient of Bychowski (1943), asked where her

husband was, replied, “On our wedding picture.”

The already mentioned tendency to see puns all over makes patients discover real puns, not seldom sexual in content. Such words as “soft, hard, big, small” are often interpreted as referring to the penis and seem to be used in a witty frame of reference.

There is indeed a similarity, based on the common use of the primary process, between witticism, comic, as acts of creativity, and schizophrenic thinking (see *The Intrapsychic Self*, Arieti, 1967).

Notes

- [1] In an introductory paper, Weckowicz (1960) has reported that schizophrenic patients performed much worse than normal persons (but better than organic patients) in the test devised by Gelb and Goldstein (1920) that requires recognition of hidden figures. At first this would seem to indicate that schizophrenic patients have less accessibility to primary process. It is not really so. The test requires secondary process mechanisms. The patient may have easier access to his own primary process and create or discover his own similarities. The capacity to discover the hidden pictures created by secondary process mechanisms of other people is certainly a function of the secondary process, and it is mostly (but not exclusively) impaired in organic conditions.

Bibliography

- Abraham, K., 1908, "The Psycho-Sexual Differences between Hysteria and Dementia Praecox." In Abraham, K., *Selected Papers in Psychoanalysis*. New York: Basic Books, 1953.
- _____, 1912, "Notes on the Psycho-Analytical Investigation and Treatment of Manic-Depressive Insanity and Allied Conditions." In *Selected Papers*. New York: Basic Books, 1953.
- _____, 1913, "Restrictions and Transformations of Scopophilia in Psycho-neurotics." In *Selected Papers*. New York: Basic Books, 1953.
- _____, 1916, "The First Pregonal Stage of the Libido." In *Selected Papers*. New York: Basic Books, 1953.
- Abramson, D. I., 1944, *Vascular Responses in the Extremities of Man in Health and Disease*. Chicago: University of Chicago Press, 1944.
- Accomero, F., 1939, "L'istopatologia del sistema nervoso centrale nello shock insulinico." *Riv. di Pat. Nerv.*, 53:1.
- Ach, N., 1935, *Analyse des Willens*. Berlin. Quoted by Humphrey, G., *Thinking: An Introduction to Experimental Psychology*. London and New York: Methuen & Wiley, 1951.
- Ackerman, N. W., 1954, "Interpersonal Disturbances in the Family: Some Unsolved Problems in Psychotherapy." *Psychiatry*, 17:359-368.
- _____, 1958, *The Psychodynamics of Family Life*. New York: Basic Books.

- ____, 1960, "Family-Focused Therapy of Schizophrenia." In Sher, S. C., and Davis, H. R. (eds.), *The Out-Patient Treatment of Schizophrenia*. New York: Grune & Stratton.
- Adler, A., 1944, "Disintegration and Restoration of Optic Recognition in Visual Agnosia." *Archives of Neurology and Psychiatry*, 51:243-259.
- ____, 1950, "Course and Outcome of Visual Agnosia." *Journal of Nervous and Mental Disease*, 111:41-51.
- Akerfeldt, S., 1957, "Oxidation of N-N-dimethyl-p-phenylenediamine by Serum with Mental Disease." *Science*, 125:117.
- Alanen, Y. O., 1958, "The Mothers of Schizophrenic Patients." Supplement No. 124, *Acta Psychiatrica et Neurologica Scandinavica*, Helsinki.
- Allen, M. G., and Pollin, W., 1970, "Schizophrenia in Twins and the Diffuse Ego Boundary Hypothesis." *American Journal of Psychiatry*, 127:437-442.
- Alpert, H. S., Bigelow, N. J. T., and Bryan, L. L., 1947, "Central Arteriosclerosis in the Paranoid State," *Psychiatric Quarterly*, 21:305-313.
- Altshuler, K. Z., 1957, "Genetic Elements in Schizophrenia. A Review of the Literature and Resume of Unsolved Problems." *Eugenics Quarterly*, 4:92-98.
- Alzheimer, A., 1897, "Beitrage zur pathologischen Anatomie der Hirnrinde und zur anatomischen Grundlage einiger Psychosen." *Monatsschr. Psychiat. u. Neurol.*, 2:82.

- Appleton, W. S., 1967, "A Guide to the Use of Psychoactive Agents." *Diseases of the Nervous System*, 28:609-613.
- Arieti, S., 1941, "Histopathologic Changes in Experimental Metrazol Convulsions in Monkeys." *American Journal of Psychiatry*, 98:70.
- ____, 1944a, "The 'Placing-into-Mouth' and Coprophagic Habits." *Journal of Nervous and Mental Disease*, 99:959-964.
- ____, 1944b, "An Interpretation of the Divergent Outcome of Schizophrenia in Identical Twins." *Psychiatric Quarterly*, 18:587-599.
- ____, 1945a, "Primitive Habits and Perceptual Alterations in the Terminal Stage of Schizophrenia." *Archives of Neurology and Psychiatry*, 53:378-384.
- ____, 1945 b, "Primitive Habits in the Preterminal Stage of Schizophrenia." *Journal of Nervous and Mental Disease*, 102:367-375.
- ____, 1946, "Histopathologic Changes in Cerebral Malaria and Their Relation to Psychotic Sequels." *Archives of Neurology and Psychiatry*, 56:79-104.
- ____, 1947, "The Processes of Expectation and Anticipation. Their Genetic Development, Neural Basis and Role in Psychopathology." *Journal of Nervous and Mental Disease*, 100:471—481.
- ____, 1948, "Special Logic of Schizophrenia and Other Types of Autistic Thought." *Psychiatry*, 11:325-338.
- ____, 1950a, "Primitive Intellectual Mechanisms in Psychopathological

Conditions. Study of the Archaic Ego." *American Journal of Psychotherapy*, 4:4.

____, 1950b, "New Views on the Psychology and Psychopathology of Wit and of the Comic." *Psychiatry*, 13:43-62.

____, 1955, *Interpretation of Schizophrenia*. New York: Brunner.

____, 1956a, "The Possibility of Psychosomatic Involvement of the Central Nervous System in Schizophrenia." *Journal of Nervous and Mental Disease*, 123:324-333.

____, 1956b, "Some Basic Problems Common to Anthropology and Modern Psychiatry." *American Anthropologist*, 58:26-39.

____, 1957a, "The Two Aspects of Schizophrenia." *Psychiatric Quarterly*, 31:403-16.

____, 1957b, "What is Effective in the Therapeutic Process?" *Am. J. Psychoanalysis*, 17:30-33.

____, 1959, "Some Socio-Cultural Aspects of Manic-Depressive Psychosis and Schizophrenia." In Masserman, J., and Moreno, J. (eds.), *Progress in Psychotherapy*, vol. 4, pp. 140-152. New York: Grune & Stratton.

____, 1960, "Recent Conceptions and Misconceptions of Schizophrenia." *American Journal of Psychotherapy*, 14:1-29.

____, 1961a, "Volition and Value: A Study Based on Catatonic Schizophrenia." *Comprehensive Psychiatry*, 2:74.

- ____, 1961b, "Introductory Notes on the Psychoanalytic Therapy of Schizophrenia." In Burton, A. (ed.), *Psychotherapy of Psychoses*. New York: Basic Books.
- ____, 1962a, "Hallucinations, Delusions and Ideas of Reference Treated with Psychotherapy." *American Journal of Psychotherapy*, 16:52-60.
- ____, 1962b, "Psychotherapy of Schizophrenia." *Archives of General Psychiatry*, 6:112-122.
- ____, 1962c, "The Microgeny of Thought and Perception," *Archives of General Psychiatry*, 6:454-468.
- ____, 1963a, "The Psychotherapy of Schizophrenia in Theory and Practice." American Psychiatric Association, *Psychiatric Research Report* 17.
- ____, 1963 b, "Studies of Thought Processes in Contemporary Psychiatry." *American Journal of Psychiatry*, 120:58-64.
- ____, 1963c, "Psychopathic Personality: Some Views on Its Psychopathology and Psychodynamics." *Comprehensive Psychiatry*, 4:301-312.
- ____, 1964, "The Rise of Creativity: From Primary to Tertiary Process." *Contemporary Psychoanalysis*, 1:51-68.
- ____, 1965a, "The Schizophrenic Patient in Office Treatment." In *Psychotherapy of Schizophrenia, 3rd Int. Symp., Lausanne, 1964*. Basel: Karger.
- ____, 1965b, "Conceptual and Cognitive Psychiatry." *American Journal of Psychiatry*, 122:361-366.

- ____, 1965c, "Contributions to Cognition from Psychoanalytic Theory." In Masserman, J. (ed.), *Science and Psychoanalysis*, vol. 8, pp. 16—37. New York: Grune & Stratton.
- ____, 1966a, "Creativity and Its Cultivation: Relation to Psychopathology and Mental Health." In Arieti, S. (ed.), *American Handbook of Psychiatry*, 1st ed., vol. 3, pp. 720—741. New York: Basic Books.
- ____, 1966b, "Transferencia e contra-transferencia no tratamento do paciente esquizofrênico." *Jornal Brasileiro de Psiquiatria*. 15:163-174.
- ____, 1967, *The Intrapsychic Self: Feeling, Cognition and Creativity in Health and Mental Illness*. New York: Basic Books.
- ____, 1968a, "The Psychodynamics of Schizophrenia: A Reconsideration." *American Journal of Psychotherapy*, 22:366-381.
- ____, 1968b, "The Meeting of the Inner and the External World: In Schizophrenia, Everyday Life and Creativity." *American Journal of Psychoanalysis*, 29:115-130.
- ____, 1968c, "New Views on the Psychodynamics of Schizophrenia." *American Journal of Psychiatry*, 124:453—458.
- ____, 1968d, "Some Memories and Personal Views." *Contemporary Psychoanalysis*, 5:85-89.
- ____, 1969, "Current Ideas on the Problem of Psychosis." *Excerpta Medica International Congress Series*, No. 194:3-21.

- ____, 1971a, "The Origins and Development of the Psychopathology of Schizophrenia." In Bleuler, M., and Angst, J. (eds.), *Die Entstehung der Schizophrenic*. Bern: Huber.
- ____, 1971b, "Psychodynamic Search of Common Values with the Schizophrenic." *Proceedings of IV International Symposium, Turku, Finland, 1971. Excerpta Medica International Congress Series*, No. 259:94-100. Amsterdam.
- ____, 1972 a, *The Will To Be Human*. New York: Quadrangle Books.
- ____, 1972 b, "Discussion of Otto Allen Will's Paper." *Contemporary Psychoanalysis*, 9:58-62.
- ____, 1972c, "The Therapeutic-Assistant in Treating the Psychotic." *International Journal of Psychiatry*, 10:7-11.
- ____, 1973, "Anxiety and Beyond in Schizophrenia and Depression." *American Journal of Psychotherapy*, 17:338-345
- ____, 1974, "Psychoses." In *Encyclopaedia Britannica*.
- Arieti, S., and Bemporad, J. R., 1974, "Rare, Unclassifiable, and Collective Psychiatric Syndromes." In Arieti, S. (ed.), *American Handbook of Psychiatry*. 2nd ed., vol. 3, pp. 710-722. New York: Basic Books.
- Arieti, S., and Meth, J., 1959, "Rare, Unclassifiable, Collective, Exotic Syndromes." In Arieti, S. (ed.), *American Handbook of Psychiatry*, 1st ed., vol. 1, pp. 546-563. New York: Basic Books.
- Arlow, J. A., 1958, "Report on Panel: The Psychoanalytic Theory of Thinking."

J. Am. Psychoanal Ass., 6:143.

Arlow, J. A., and Brenner, C., 1964, *Psychoanalytic Concepts and the Structural Theory*. New York: International Universities Press.

_____, 1969, "The Psychopathology of the Psychoses: A Proposed Revision." *The International Journal of Psychoanalysis*, 50:5-14.

Artiss, K. L., 1962, *Milieu Therapy in Schizophrenia*. New York: Grune & Stratton.

Astrachan, J. M., 1965, "Severe Psychological Disorders in Puerperium." *Obstetrics and Gynecology*, 25:13-25.

Astrup, C., and Odegaard, O., "Internal Migration and Mental Disease in Norway." *Psychiatric Quarterly*, 34:116-130.

Axel, M., 1959, "Treatment of Schizophrenia in a Day Hospital. Preliminary Observations on an Eclectic Approach." *International Journal of Social Psychiatry*, 5.

Ayd, F. J., 1961, "A Survey of Drug-Induced Extrapyramidal Reactions." *JAMA*, 175:1054-1060.

_____, 1963, "Chlorpromazine: Ten Years' Experience." *JAMA*, 184:173.

Ayllon, T., and Azrin, N. H., 1965, "The Measurement and Reinforcement of Behavior of Psychotics." *Journal of Exper. Anal. Behav.*, 8:357-383.

Bacciagaluppi, M., and Serra, A., 1963, "Sull'eredita' della schizofrenia tardiva." *Il Lavoro Neuropsichiatrico*, 33:1-7.

Balakian, A., 1970, *Surrealism: The Road to the Absolute*. New York: Dutton.

Baldessarini, R. J., 1966, "Factors Influencing Tissue Levels of the Major Methyl Donor in Mammalian Tissue." In Himwich, H. E., Kety, S. S., and Smythies, J. R. (eds.), *Amine Metabolism in Schizophrenia*. Oxford: Pergamon.

Baldwin, J. M., 1929. Quoted by Piaget, 1929.

Balken, E. R., 1943, "A Delineation of Schizophrenic Language and Thought in a Test of Imagination." *Journal of Psychology*, 16:239.

Bard, P., and Mountcastle, V. B., 1947, "Some Forebrain Mechanisms Involved in the Expression of Rage with Special Reference to Suppression of Angry Behavior." *Res. Pub. A. Nerv. e. Merit. Dis.*, 27:362.

Barison, F., 1934, "L'Astrazione formale del pensiero quale sintomo di schizofrenia." *Schizophrenie*, 3, 1934. Quoted by Piro, 1967.

_____, 1948, "Il Manierismo schizofrenico." *Riv. Neurol.* 18:1.

_____, 1949, "Dissociazione e incomprendibilita schizofreniche." *Riv. Neurol.*, 19:1.

Barr, M. L., and Bertram, E. C., 1949, "A Morphological Distinction between Neurons of the Male and Female, and the Behavior of the Nucleolar Satellite during Accelerated Nucleoprotein Synthesis." *Nature*, 163:676-677.

Barsa, K., and Kline, N. S., 1956, "Use of Reserpine in Disturbed Psychotic Patients." Quoted by Kline, 1956.

- Bartlet, J. E. A., 1957, "Chronic Psychosis following Epilepsy." *American Journal of Psychiatry*, 114:338-343.
- Bastide, R., 1965, *Sociologie des maladies mentales*. Paris: Flammarion.
- Bateson, G., Jackson, D. D., Haley, J., and Weakland, J., 1956, "Toward a Theory of Schizophrenia." *Behavioral Science*, 1:251.
- Baynes, H G., 1949, *Mythology of the Soul. A Research into the Unconscious from Schizophrenic Dreams and Drawings*. London: Methuen.
- Beard, A. W., and Slater, E., 1962, "The Schizophrenic-like Psychoses of Epilepsy." *Proceedings of the Royal Society of Medicine*, 55:311-316.
- Becker, E., 1962, "Toward a Theory of Schizophrenia. External Objects and the Creation of Meaning." *Archives of General Psychiatry*, 7:170-181.
- Beckett, P. G. S., and Gottlieb, J. S., 1970, "Advances in the Biology of Schizophrenia." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 1, pp. 505-528. New York: Basic Books.
- Beliak, L., 1948, *Dementia Praecox. The Past Decade's Work and Present States: A Review and Evaluation*. New York: Grune.
- _____. 1957, *Schizophrenia: A Review of the Syndromes*, New York: Logos Press.
- Beliak, L., and Loeb, L., 1969, *The Schizophrenic Syndrome*. New York: Grune & Stratton.
- Beliak, L., and Willson, E., 1947, "On the Etiology of Dementia Praecox."

Journal of Nervous and Mental Disease, 105:1-24.

Belloni, L., 1956, "Dali' Elleboro alia reserpina." *Archivio di Psicologia, Neurologia e Psichiatria*, 17:115.

Bemporad, J. R., 1967, "Perceptual Disorders in Schizophrenia." *American Journal of Psychiatry*, 123:971-975.

Bemporad, J. R., and Dunton, H. D., 1972, "Catatonic Episodes in Childhood." *International Journal of Child Psychotherapy*, 1:19-44.

Bender, L., 1947, "Childhood Schizophrenia." *American Journal of Orthopsychiatry*, 17:40-56.

_____, 1953, "Childhood Schizophrenia." *Psychiatric Quarterly*, 27:663-687.

Bender, L., and Schilder, P., 1930, "Unconditioned and Conditioned Reactions to Pain in Schizophrenia." *American Journal of Psychiatry*, 10:365.

Bendi, S. B., Beckett, P. G. S., Caldwell, D. F., Grisell, J., and Gottlieb, J. S., 1969, "Nailfold Capillary Structure and Skin Temperature in Schizophrenia." *Clinical and Basic Science Correlations. Supplement to Diseases of the Nervous System*, 30:2.

Benedetti, G., 1955, "Il problema della coscienza nelle allucinazioni degli schizofrenici." *Archivio di Psicologia, Neurologia e Psichiatria*, 16:287.

_____, 1956, "Analisi dei processi di miglioramento e di guarigione nel corso della psicoterapia." *Archivio di Psicologia, Neurologia e Psichiatria*, 17:971.

____, 1971, "Ich-Strukturierung und Psychodynamik in der Schizophrenie." In Bleuler, M., and Angst, J. (eds.), *Die Entstehung der Schizophrenie*. Bern: Huber.

____, 1972, "Response to Frieda Fromm-Reichmann Award Presentation." Meeting of the American Academy of Psychoanalysis, May 1972.

Benedetti, G., Kind, H., and Mielke, F., 1957, "Forschungen zur Schizophrenielehre 1951 bis 1955." *Fortschritte Neur. Psychiatrie*, 25:101-179.

Benjamin, J. D., 1944, "A Method for Distinguishing and Evaluating Formal Thinking Disorders in Schizophrenia." In Kasanin (1944a), *Language and Thought in Schizophrenia: Collected Papers*. Berkeley: University of California Press.

Bennett, A. E., 1940, "Preventing Traumatic Complications in Convulsive Shock Therapy by Curare." *JAMA*, 114:322.

Berger, H., 1931, "Über das Elektroenzephalogramm des Menschen." *Arch. f. Psychiat.*, 94:16-60.

____, 1933, "Über das Elektroenzecephalogramm des Menschen." *Arch. f. Psychiat.*, 100:302-321.

Berk, N., 1950, "A Personality Study of Suicidal Schizophrenics." *Microfilm Abstracts*, 10:155.

Bernard, P., and Bobon, J., 1961, "Le 'Rinhauzhairrhauses' neomorphisme compensatoire chez un paraphrene debile." In *Premier Colloque International sur V Expression Plastique*. Brussels: Les Publications "Acta Medica Belgica."

- Best, C. H., and Taylor, N. B., 1939, *The Physiological Basis of Medical Practice*. Baltimore: Williams and Williams.
- Bettelheim, B., 1956, "Schizophrenia as a Reaction to Extreme Situations." *American Journal of Orthopsychiatry*, 26:507-518.
- _____, 1967, *The Empty Fortress: Infantile Autism and the Birth of the Self*. New York: Free Press.
- _____, 1969, *The Children of the Dream*. New York: Macmillan.
- _____, 1970, "Infantile Autism." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 1, pp. 400-425. New York: Basic Books.
- Betz, B. J., 1947, "A Study of Tactics for Resolving the Autistic Barrier in the Psychotherapy of the Schizophrenic Personality." *American Journal of Psychiatry*, 104:267.
- _____, 1950, "Strategic Conditions in the Psychotherapy of Persons with Schizophrenia." *American Journal of Psychiatry*, 107:203.
- Bexton, W. H., Heron, W., and Scott, T. H., 1954, "Effects of Decreased Variation in the Sensory Environment." *Canadian Journal of Psychology*, 8:70-76.
- Bieber, I., 1958, "A Critique of the Libido Theory." *American Journal of Psychoanalysis*, 18:52-65.
- Bieber, I., et al., 1962, *Homosexuality: A Psychoanalytic Study*. New York: Basic Books.

- Billig, O., 1957, "Graphic Communication in Schizophrenia." *Congress Report 2*, Intern. Congress for Psychiatry, Zurich, Vol. 4.
- _____, 1968, "Spatial Structure in Schizophrenic Art." *Psychiatry and Art Proceedings IVth Int. Coll. Psychopathology of Expression* 1-16. Basel and New York: Karger.
- Binswanger, L., 1949, "Der Fall Lola Voss." *Schweizer Archiv für Neurologie und Psychiatrie*, 63:29.
- _____, 1957, *Le Cas Suzanne Urban, etude sur la schizophrenic*. Paris: Desclée de Brouwer.
- _____, 1958a, "The Case of Ellen West." In May, R., Angel, E., and Ellenberger, H. F. (eds.), *Existence*. New York: Basic Books.
- _____, 1958b, "Insanity as Life-Historical Phenomenon and as Mental Disease: The Case of Ilse." In May, R., Angel, E., and Ellenberger, H. F. (eds.), *Existence*. New York: Basic Books.
- Bion, W. R., 1954, "Notes on the Theory of Schizophrenia." In Bion, W. R., *Second Thoughts*. London: Heinemann.
- _____, 1956, "Development of Schizophrenic Thought." In Bion, *Second Thoughts*. London: Heinemann.
- _____, 1957, "Differentiation of the Psychotic from the Non-Psychotic Personalities." In Bion, W. R., *Second Thoughts*. London: Heinemann.
- Black, B. J., 1963, *Guides to Psychiatric Rehabilitation*. New York: Altro Health

and Rehabilitation Services.

Blacker, K. H., Jones, R. T., Stone, G. C., and Pfefferbaum, 1968, "Chronic Users of LSD: The 'Acidheads.'" *American Journal of Psychiatry*, 125:341-351.

Blanshard, B., 1967, "Internal Relations and Their Importance to Philosophy." *The Review of Metaphysics*, 21:227-236.

Blaschko, H., 1959, "The Development of Current Concepts of Catecholamine Formation." *Pharmacol. Rev.*, 11:307—316.

Bleuler, E., 1912a, *The Theory of Schizophrenic Negativism*. Nervous and Mental Disease Monograph Series No. 11. New York.

____, 1912b, *Affectivity, Suggestibility, Paranoia*. Utica, N.Y.: State Hospital Press.

____, 1913a, "Autistic Thinking." *American Journal of Insanity*, 69:873.

____, 1913b, "Kritik der Freudschen Theorien." *Allg. Z. Psychiatrie*, 70:665-718.

____, 1913c, *Textbook of Psychiatry*. Translated by A. A. Brill. New York: Macmillan.

____, 1913d, "Die Spatschizophrenen Krankheitsbilder." *Fortschr. Neur.*, 15:259.

____, 1913e (originally in German, 1911), *Dementia Praecox on the Group of Schizophrenias*. Translated by J. Zinkin. New York: International Universities Press.

- Bleuler, M., 1954, *Endokrinologische Psychiatrie*. Stuttgart: Thieme.
- _____, 1963, "Conception of Schizophrenia within the Last Fifty Years and Today." *Proceedings of the Royal Society of Medicine*, 56:945-952.
- _____, 1968, "A Twenty-Three-Year Longitudinal Study of 208 Schizophrenics and Impression in Regard to the Nature of Schizophrenia." In Rosenthal, D. and Kety, S.S. (eds) in *The Transmission of Schizophrenia*: London: Pergamon Press.
- Blondel, C., 1939, "Les Volitions." In Dumas, G. (ed.), *Nouveau Traite de Psychologie*. Paris: Alcan.
- Bloom, J. B., and Davis, N., 1970, "Changes in Liver Disturbance Associated with Long-term Tranquilizing Medication." *Diseases of the Nervous System*, 31:309-317.
- Blum, R. A., Livingston, P. B., Shader, R. I., 1969, "Changes in Cognition, Attention and Language in Acute Schizophrenia." *Diseases of the Nervous System*, 30:31-36.
- Boas, F., 1927, *Primitive Art*. Oslo: H. Aschehøng & Company.
- Bobon, J., 1955, "Psychopathologie de l'expression plastique (mimique et picturale). Note préliminaire sur les 'neomimismes' et les 'neomorphismes.'" *Acta Neurologica et Psychiatrica Belgica*, 11:923-929.
- _____, 1957, "Contribution à la psychopathologie de l'expression plastique, mimique et picturale: Les 'neomimismes' et les 'neomorphismes.'" *Acta Neurologica et Psychiatrica Belgica*, 12:1031-1067.

- Bobon, J., and Maccagnani, G., 1962, "Contributo alio studio della comunicazione nonverbale in psicopatologia: Il 'linguaggio' dell'espressione plastica." *Rivista Sperimentale di Freniatria*, 86:1097-1173.
- Boernstein, W. S., 1940a and b, "Cortical Representation of Taste in Man and Monkey." (a) Functional and Anatomical Relations of Taste, Olfaction and Somatic Sensibility. *Yale Journal of Biology and Medicine*, 12:719. (b) The Localization of the Cortical Taste Area in Man and a Method for Measuring Impairment of Taste in Man. *Yale Journal of Biology and Medicine*, 13:133.
- Bonfiglio, F., 1952, "Considerazioni sulla morbosita per malattie mentali in Italia nel triennio 1947-1948-1949." *Lavoro Neuropsichiat*, 10:22.
- Book, J. A., 1960, "Genetical Aspects of Schizophrenic Psychoses." In Jackson, D. D. (ed.), *The Etiology of Schizophrenia*. New York: Basic Books.
- Boss, M., 1963, *Psychoanalysis and Daseinanalysis*. New York: Basic Books.
- _____, 1973, "The Phenomenological Approach to Schizophrenia." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 2, pp. 314—335.
- Bostroem, A., 1928, "Storungen der Wollens." In Bumke, O. (ed.), *Handbuch des Geisteskrankheiten*, vol. 11, pp. 1-90. Berlin: Springer.
- Bourdillon, R. E., Clarke, C. A., Ridges, A. P., Sheppam, P. M., Harper, P., and Leslie, S. A., 1965, " 'Pink Spot' in the Urine of Schizophrenics." *Nature*, 208:453-455.

- Boutonier, J., 1951, *Les Defaillances de la volonte*. Paris: Presses Universitaires de France.
- Bowers, M. K., 1961, "Theoretical Considerations in the Use of Hypnosis in the Treatment of Schizophrenia." *International Journal of Clinical and Experimental Hypnosis*, 9:39-46.
- Bowlby, J., 1951, *Maternal Care and Mental Health*. World Health Organization Monograph, Series n. 2.
- _____, 1960, "Grief and Mourning in Infancy." In *The Psychoanalytic Study of the Child*, vol. 15. New York: International Universities Press.
- Bowman, K. M., 1935, "Psychoses with Pernicious Anemia." *American Journal of Psychiatry*, 92:372.
- Boyd, D. A., 1942, "Mental Disorders Associated with Child Bearing." *American Journal of Obstetrics and Gynecology*, 43:148-163, 335-349.
- Braceland, F. J., 1966, "Rehabilitation." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 3, pp. 643-656. New York: Basic Books.
- Bradley, C., 1941, *Schizophrenia in Childhood*. New York: Macmillan.
- Breton, A., 1932, *Les Vases Communicants*. Paris: Cahiers Libres.
- _____, 1952, *La Cle des Champs*. Paris: Sagittaire.
- Breton, A., and Eluard, P., 1930, *L'Immaculee Conception*. Paris: Editions Surrealistes.

- Brickner, R. M., 1936, *The Intellectual Functions of the Frontal Lobes: A Study Based upon Observation of a Man Following Partial Bilateral Frontal Lobectomy*. New York: Macmillan.
- Brill, H., and Patton, R. E., 1957, "Analysis of 1955-1956 Population Fall in New York State Mental Hospitals in First Year of Large-Scale Use of Tranquillizing Drugs. ' ' *American Journal of Psychiatry*, 114:509.
- _____, 1964, "The Impact of Modern Chemotherapy on Hospital Organization, Psychiatric Care, and Public Health Policies: Its Scope and Its Limits." *Proceedings Third World Congress of Psychiatry*, vol. 3, pp. 433-437.
- Brill, N. G., 1969, "General Biological Studies." In Beliak, L., and Loeb, L. (eds.), *The Schizophrenic Syndrome*. New York: Grune & Stratton.
- Brody, M. W., 1959, *Observations on "Direct Analysis," The Therapeutic Technique of Dr. John N. Rosen*. New York: Vantage Press.
- Brooks, G. W., Deane, W. N., and Hugel, R. W., 1968, "Some Aspects of the Subjective Experience of Schizophrenia." In *Supplement to Diseases of the Nervous System*, vol. 29, pp. 78-82.
- Brown, J. W., 1972, *Aphasia, Apraxia and Agnosia*. Springfield, Ill.: Thomas.
- Bruch, H., 1957, *The Importance of Overweight*. New York: Norton.
- _____, 1962, "Perceptual and Conceptual Disturbances in Anorexia Nervosa." *Psychosomatic Medicine*, 24:187.
- Bruch, H., and Palombo, S., 1961, "Conceptual Problems in Schizophrenia. ' ' "

Journal of Nervous and Mental Disease, 132:114—117.

Bruetsch, W. L., 1940, "Chronic Rheumatic Brain Disease as a Possible Factor in the Causation of Some Cases of Dementia Praecox." *American Journal of Psychiatry*, 97:276.

Bruner, J. S., 1951, "Personality Dynamics and the Process of Perceiving." In Blake, R. R., and Ramsey, G. V. (eds.), *Perception, an Approach to Personality*. New York: Ronald Press.

Buber, M., 1953, *I and Thou*. Edinburgh: Clark.

Bullard, D. M., 1959, *Psychoanalysis and Psychotherapy. Selected Papers of Frieda Fromm-Reichmann*. Chicago: University of Chicago Press.

Bumke, O., 1924, *Lehrbuch der Geisteskrankheiten*, 2nd ed. Munich: Bergmann.

Burlingame, C. C., 1949, "Rehabilitation after Leucotomy." *Proceedings of the Royal Society of Medicine*, 42:31.

Burney, C., 1952, *Solitary Confinement*. New York: Coward-McCann.

Burton, A., and Adkins, J., 1961, "Perceived Size of Self-Image Body Parts in Schizophrenia." *Archives of General Psychiatry*, 5:131-140.

Burton, A., and Bird, J. W., 1963, "Family Constellation and Schizophrenia." *Journal of Psychology*. 55:329-336.

Buscaino, V. M., 1921, "Nuovi date sulla distribuzione e sulla genesi delle 'zolle di disintegrazione a grappolo' dei dementi precoci." *Riv. di Pat. Nerv.*, 26:57.

- ____, 1952, "Extraneural Pathology of Schizophrenia (Liver, Digestive Tract, Reticulo-Endothelial System). In *Proceedings of the First International Congress of Neuropathology*. Turin: Rosenberg & Sellier.
- ____, 1970, "Biologia e terapia della schizofrenia." *Acta Neurologica*, 25:1-58.
- Bychowski, G., 1943, "Physiology of Schizophrenic Thinking." *Journal of Nervous and Mental Disease*, 98:368—386.
- ____, 1952, *Psychotherapy of Psychosis*. New York: Grune & Stratton.
- Byrd, R. E., 1938, *Alone*. New York: Putnam.
- Cade, J. F., and Krupinski, J., 1962, "Incidence of Psychiatric Disorders in Victoria in Relation to Country of Birth." *Medical Journal of Australia*, 49:400-404.
- Cairns, H., Oldfield, R. C., Pennybacker, J. B., and Whitteridge, D., 1941, "Akinetic Mutism with an Epidermoid Cyst of the Third Ventricle." *Brain*, 64:273.
- Callieri, B., 1954, "Contributo alio studio psicopatologico dell' esperienza schizofrenica della fine del mondo." *Archivio Psicologia, Neurologia e Psichiatria*, 16:379.
- Cameron, D. C., and Jellinek, E. M., 1939, "Physiological Studies in Insuline Treatment of Acute Schizophrenia: Pulse Rate and Blood Pressure." *Endocrinology*, 25:100.
- Cameron, N., 1938, "Reasoning, Regression and Communication in

Schizophrenics." *Psychological Monograph*, 50:1.

____, 1939, "Deterioration and Regression in Schizophrenic Thinking." *Journal of Abnormal and Social Psychology*, 34:265.

____, 1947, *The Psychology of Behavior Disorders. A Biosocial Interpretation*. Cambridge, Mass.: Mifflin Co.

Cameron, N., and Margaret, A., 1951, *Behavior Pathology*. Cambridge, Mass.: Mifflin Co.

Cancro, R., 1971, 1972, *The Schizophrenic Syndrome*, vols. 1, 2. New York: Brunner-Mazel.

Cantor, M. B., 1968, "Problems in Diagnosing and Prognosing with Occult Schizophrenic Patients." *American Journal of Psychoanalysis*, 39:36-47.

Capgras, J., and Carrette, P., 1924, "L'illusion des sosies et complexe d'Oedipe." *Ann. med.-psych.*, 82:48.

Capgras, J., Lucettini, P., and Schiff, P., 1925, "Du Sentiment d'étrangeté a l'illusion des sosies." *Ann. med.-psych.*, 83:93.

Capgras, J., and Reboul-LaChaux, J., 1923, "L'illusion des sosies dans un delire systematise chronique." *Soc. Clin. Med. Psych.*, 81:186.

Caplan, G., 1964, *Principles of Preventive Psychiatry*. New York: Basic Books.

Cargnello, D., 1964, "Fenomenologia del corpo." *Annali di Freniatria e Scienze Affini*, 77:365-379.

- Cagnello, D., and Della Beffa, A.A., 1955, "L'illusione del Sosia." *Archivio di Psicologia, Neurologia e Psichiatria*, 16:173.
- Carothers, J. C., 1947, "A Study of Mental Derangement in Africans." *Journal of Ment. Sci.*, 93, No. 392:548-597.
- _____, 1951, "Frontal Lobe Function and the African." *J. Ment. Sci.*, 97, n. 406, pp. 12—48.
- Cassirer, E., 1946, *Language and Myth*. New York: Harper and Brothers.
- _____, 1953, *The Philosophy of Symbolic Forms*, vol. 1. New Haven: Yale University Press.
- _____, 1955, *The Philosophy of Symbolic Forms*, vol. 2. New Haven: Yale University Press.
- _____, 1957, *The Philosophy of Symbolic Forms*, vol. 3. New Haven: Yale University Press.
- Cerletti, U., and Bini, L., 1938, "L'Electroshock." *Arch. Gen. di Neurol., Psichiat., e Psicoanal.*, 19:266.
- _____, 1940, "Le alterazioni istopatologiche del sistema nervoso nell' electroshock." *Rivista Sperimentale di Freniatria*, 64:2.
- Chapman, J., 1966, "The Early Diagnosis of Schizophrenia." *British Journal of Psychiatry*, 112:225-238.
- Chapman, L. J., 1958, "Intrusion of Associative Responses into Schizophrenic Conceptual Performance." *Journal of Abnormal Social Psychology*,

56:374-379.

____, 1960, "Confusion of Figurative and Literal Usages of Words by Schizophrenics and Brain-Damaged Patients." *Journal of Abnormal Social Psychology*, 60:412-416.

____, 1961, "A Re-interpretation of Some Pathological Disturbances in Conceptual Breadth." *Journal of Abnormal Social Psychology*, 62:514-519.

Chapman, L. J., and Chapman, J. P.____, 1965, "The Interpretation of Words in Schizophrenia." *Journal of Personality and Social Psychology*, 1:135-146.

Chapman, L. J., Chapman, J. P., and Miller, G. A., 1964, "A Theory of Verbal Behavior in Schizophrenia." In Maher, B., *Progress in Experimental Personality Research*, vol. 1, pp. 49-77. New York: Academic Press.

Chertok, L., 1969, *Motherhood and Personality. Psychosomatic Aspects of Childbirth*. London: Tavistock. Originally published in French, 1966.

Chrzanowski, G., 1943, "Contrasting Responses to Electric Shock Therapy in Clinically Similar Catatonics." *Psychiatric Quarterly*, 17:282.

Clark, L. P., 1933, "Treatment of Narcissistic Neuroses and Psychoses." *Psychoanalytic Quarterly*, 20:304-326.

Clements, S. D., 1966, *Minimal Brain Dysfunction in Children*. NINDB Monograph No. 3, Washington, D.C.: U. S. Public Health Service.

- Cole, E., Fisher, G., Cole, S. S., 1968, "Women Who Kill. A Sociopsychological Study." *Archives of General Psychiatry*, 19:1-8.
- Colony, H. S., and Willis, S. E., 1956, "Electroencephalographic Studies of 100 Schizophrenic Patients." *American Journal of Psychiatry*, 113:163.
- Conant, J. B., 1952, *Modern Science and Modern Man*. New York: Columbia University Press.
- Courbon, P., and Fail, J., 1927, "Syndrome de Fregoli et schizophrenic." *Soc. Clin. Med. Ment*.
- Courbon, P., and Tusques, J., 1932, "Illusion d'intermetamorphose et de charme." *Ann. Med.-Psych.*, 90:401.
- Courtauld, A., 1932, "Living Alone under Polar Conditions." Cambridge: *The Polar Record*, No.4.
- Crahay, S., and Bobon, J., 1961, "De la representation naturaliste a l'abstraction morbide des formes." In *Premier Colloque International sur VExpression Plastique*. Brussels: Les Publications "Acta Medica Belgica."
- Critchley, M., 1953, *The Parietal Lobes*. London: Arnold.
- Croce, B. 1947, *La Filosofia di Giambattista Vico*. Laterza: Bari.
- Dahl, M., 1958, "A Singular Distortion of Temporal Orientation." *American Journal of Psychiatry*, 115:146-149.
- Dali, S., 1930, *La Femme visible*. Paris: Editions Surrealistes.

____, 1935, *Conquest of the Irrational*. New York: Julian Levy.

____, 1942, *The Secret Life of Salvador Dali*. New York: Dial Press.

Dally, P., 1967, *Chemotherapy of Psychiatric Disorders*. New York: Plenum Press. London: Logos Press.

Dastur, D. K., 1959, "The Pathology of Schizophrenia." *A.M. A. Archives of Neurology & Psychiatry*, 81:601-614.

Davidson, G. M., 1936, "Concerning Schizophrenia and Manic-Depressive Psychosis Associated with Pregnancy and Childbirth." *American Journal of Psychiatry*, 92:1331.

____, 1941, "The Syndrome of Capgras." *Psychiatric Quarterly*, 15:513.

Davis, P. A., 1940, "Evaluation of the Electroencephalograms of Schizophrenic Patients." *American Journal of Psychiatry*, 96:850.

____, 1942, "Comparative Study of the EEG's of Schizophrenic and Manic-Depressive Patients." *American Journal of Psychiatry*, 99:210.

Dawson, J. G., and Burke, G. W., 1958, "*Folie a Deux* in Husband and Wife." *Journal of Psychology*, 46:141-148.

Dax, E. C., 1953, *Experimental Studies in Psychiatric Art*. Philadelphia: Lippincott.

DeJong, H., 1922, "Ueber Bulbocapninkatalepsie." *Klinische Wochenschi*, 1:684.

DeJong, H., and Baruk, H., 1930a, "Pathogenie du syndrome catatonique."

Encephale, 25:97.

____, 1930b, *La Catatonie experimental par la bulbo-capnine; Etude physiologique et clinique.*

Paris: Masson,

Delgado, H., 1922, *El Dibujo des los psicopatos.* Lima.

Delay, J., and Deniker, P., 1952a, "Le traitement des psychoses par une methode neurolytique derivee de l'hibemotherapie (le 4560 RP utilise seul en cure prolongee et continue). L. eme Cong, des Alien, et Neurol, de Langue Frangaise, Luxemburg, 21-27 July." *Comptes-Rendus du Congres*, 497-502. Paris: Masson.

____, 1952b, "38 Cas de psychoses traitees par la cure prolongee et continue de 4560 RP. L. eme Cong, des Alien et Neurol, de Langue Franjaise, Luxemburg, 21-27 July. *Comptes-Rendus du Congres*, 503-513. Paris: Masson.

____, 1961, *Methodes Chimiotherapiques en Psychiatrie.* Paris: Masson.

Delong, S. L., 1967, "Chlorpromazine-induced Eye Changes." Quoted by Kalinowsky and Hippus, 1969.

De Martino, E., 1964, "Apocalissi culturali ed apocalissi psicopatologiche." *Nuovi Argomenti.* Quoted by De Martis, 1967.

De Martis, D., 1964, "LaCorporeitanellaschizofrenia." *Rassegnadi Studi Psichiatrici*, 53:412-428.

- ____, 1965, "Reflexions sur les delires de negation et de fin du monde."
L'Evolution Psychiatrique, 1:111.
- ____, 1967, "Note sui deliri di negazione." *Rivista Sperimentale di Freniatria*,
91:1119-1143.
- De Martis, D., and Petrella, F., 1964, "Le Stereotipie. Studio psicopatologico e
clinico (con particolare riferimento alia stereotipia schizofrenica)."
Rivista Sperimentale di Freniatria, 88:946-1005.
- De Martis, D., Petrella, F., and Petrella, A. M., 1967, "Ricerche sull' evoluzione
dell' esperienza di esordio della malattia nella schizofrenia
cronica." *Psichiatria Generale e dell' Eta Evolutiva*, 5:1-17.
- De Martis, D., and Porta, A., 1965, "Ricerche sulla qualita della percezione del
proprio corpo in un gruppo di soggetti psicotici." *Rivista
Sperimentale di Freniatria*, 89:779-810.
- Denber, H. C. B., and Teller, D. N., 1963, "A Biochemical Genetic Theory
Concerning the Nature of Schizophrenia." *Dis. Nerv. Syst.*, 29:106-
114.
- Denny-Brown, D., 1960, "Motor Mechanisms. Introduction: The General
Principles of Motor Integration." In Field, J. (ed.), *Handbook of
Physiology*, vol. 2, p. 781. Washington: American Physiological
Society.
- De Sanctis, S., 1925, *Neuropsichiatria infantile. Patologia e diagnostica*. Turin:
Lattes.
- Despert, L., 1941, "Thinking and Motility Disorder in a Schizophrenic Child."

Psychiatric Quarterly, 15:522-536.

____, 1968, *Schizophrenia in Children*. New York: Brunner.

Deutsch, H., 1945, *Psychology of Women*, vol. 1, 2. New York: Grune & Stratton.

Dewhurst, K. E., El Kabir, D. J., Harris, G. W., and Mandelbrote, B. M., 1969, "Observations on the Blood Concentration of Thyrotrophic Hormone (T.S.H.) in Schizophrenia and Affective States." *The British Journal of Psychiatry*, 115:1003-1011.

Diamond, S., Balvin, R. S., and Diamond, F. R., 1963, *Inhibition and Choice: Neurobehavioral Approach to Problems of Plasticity in Behavior*. New York: Harper and Row.

Diem, 1903, "Die einfach demente." *Form der Dp. A.*, 37:111. Quoted by Bleuler, 1950.

Doust, J. W. L., 1955, "The Capillary System in Patients with Psychiatric Disorder: The Ontogenetic Structural Determination of the Nailfold Capillaries as Observed by Photomicroscopy." *Journal of Nervous and Mental Disease*, 121:516-526.

Drelich, M., 1974, "The Theory of the Neuroses." In Arieti, S., (ed.) *American Handbook of Psychiatry*, vol. 1. New York: Basic Books.

Dunlap, C. B., 1928, "The Pathology of the Brain in Schizophrenia." *Association for Research in Nervous and Mental Disease, Proceedings*, 5:371. New York: Hoeber.

Easson, W. M., 1966, "Myxedema with Psychosis." *Arch. Gen. Psychiat.*, 14:277-

283.

Eaton, J. W., and Weil, R. J., 1955a, *Culture and Mental Disorders*. Glencoe, Ill.: Free Press.

_____, 1955b, "The Mental Health of the Hutterites." In Rose, A. M., *Mental Health and Mental Disorder*. New York: Norton.

Eisenberg, L., and Kanner, L., 1957, "Early Infantile Autism." *American Journal of Orthopsychiatry*, 26:550-566.

Eissler, K. R., 1951, "Remarks on the Psycho-analysis of Schizophrenia." *Int. J. Psycho-Anal.*, 32:139.

_____, 1952, "Remarks on the Psychoanalysis of Schizophrenia." In Brody and Redlick, *Psychotherapy with Schizophrenics*. New York: International Universities Press.

Eitinger, L., 1959, "The incidence of mental disease among refugees in Norway." *Journal Ment. Sci.*, 105:326-338.

Ellinwood, E. H., 1967, "Amphetamine Psychosis: Description of the Individuals and Process." *J. Nervous Ment. Disease*, 144:273-283.

English, O. S., Hampe, W. W., Bacon, C. L., and Settlage, C. F., 1961, *Direct Analysis and Schizophrenia. Clinical Observations and Evaluations*. New York: Grune & Stratton.

Ephron, H. S., 1969, "Dreams of Schizophrenics and 'Normals': Do They Differ?" Paper presented at a Dream Symposium under the auspices of the Comprehensive Course in Psychoanalysis, New

York Medical College, November 1, 1969.

Erikson, E. H., 1940, "Problems of Infancy and Early Childhood." In *Cyclopedia of Medicine, Surgery, and Specialties*. Philadelphia: F. A. Davis, Co.

_____, 1953, "Growth and Crises of the Healthy Personality." In Kluckhohn, C., Murray, H. A., and Schneider, D. M. (eds.), *Personality in Nature, Society and Culture*. New York: Knopf.

Erlenmeyer-Kimling, L., Ranier, J. D., and Kallman, F. J., 1966, "Current Reproductive Trends in Schizophrenia." In Hoch, P. H., and Zubin, J. (eds.), *The Psychopathology of Schizophrenia*. New York: Grune & Stratton.

Erlenmeyer-Kimling, L., Van Den Bosch, E., and Denham, B., 1969, "The Problem of Birth Order and Schizophrenia: A Negative Conclusion." *British Journal of Psychiatry*, 115:659-678.

Ervin, F., Epstein, A. W., and King, H. E., 1955, "Behavior of Epileptic and Nonepileptic Patients with 'Temporal Spikes.'" *A.M.A. Archives of Neurology and Psychiatry*, 75:548.

Ey, H., 1948, "La Psychiatrie devant le surrealisme." *Evolution Psychiatrie*, 3:3-52.

Ey, H., Bernard, P., and Brisset, C., 1967, *Manuel de psychiatrie*. Paris: Masson.

Fairbairn, R., 1952, *Object-Relations Theory of the Personality*. New York: Basic Books.

Fairweather, G. W. (ed.), 1964, *Social Psychology in Treating Mental Illness: An*

Experimental Approach. New York: Wiley.

Farber, L., 1966, *The Ways of the Will: Essays Toward a Psychology and Psychopathology of the Will*. New York: Basic Books.

Farina, A., Garnezy, N., and Barry, H., 1963, "Relationship of Marital Status to Incidence and Prognosis of Schizophrenia." *Journal of Abnormal Social Psychology*, 67:624—630.

Faris, R. E. L., 1955, *Social Disorganization*. New York: Ronald Press.

Faris, R. E. L., and Dunham, H. W., 1939, *Mental Disorders in Urban Areas. An Ecological Study of Schizophrenia and Other Psychoses*. Chicago: University of Chicago Press.

Farrell, M. J., and Vassaf, F., 1940, "Observations on the Effect of Insulin Shock Therapy in Schizophrenia." *Arch. Neurol. Psychiat.*, 43:784.

Faure, H., 1971, *Les Appartenances du delirant*. 3rd ed. Paris: Presses Universitaires de France.

Federn, P., 1943, "Psychoanalysis of Psychoses. I. Errors and How to Avoid Them. II. Transference." *Psychiatric Quarterly*, 17:3, 17, 246. Reprinted in Federn, 1952.

_____, 1947, "Discussion of Rosen's Paper." *Psychiatric Quarterly*, 21:23-26.

_____, 1952, *Ego Psychology and the Psychoses*. New York: Basic Books.

Feigenbaum, D., 1930, "Analysis of a Case of Paranoia Persecutoria. Structure and Cure." *Psychoanalytic Review*, 17:159.

- Feinberg, I., Koresko, R. L., and Gottlieb, F., 1965, "Further Observations on Electrophysiological Sleep Patterns in Schizophrenia." *Compr. Psychiat.*, 6:21-24.
- Feinberg, I., Koresko, R. L., Gottlieb, F., and Wender, P. H., 1964, "Sleep Electroencephalographic and Eye-Movement Patterns in Schizophrenic Patients." *Compr. Psychiat.*, 5:44-53.
- Fenichel, O., 1945, *The Psychoanalytic Theory of Neurosis*. New York: Norton.
- Ferenczi, S., 1950, "Some Clinical Observations on Paranoia and Paraphrenia." In Ferenczi, S., *Sex in Psychoanalysis*. New York: Basic Books.
- Ferraro, A., 1954, "Discussion at the Session of Histopathology of Schizophrenia." In *Proceedings of First International Congress of Neuropathology*. Turin: Rosenberg & Sellier.
- Ferraro, A., Arieti, S., and English, W. H., 1945, "Cerebral Changes in the Course of Pernicious Anemia and Their Relationship to Psychic Symptoms." *J. of Neuropath, and Experim. Neur.*, 4:217-239.
- Ferraro, A., and Barrera, S. E., 1932, *Experimental Catalepsy*. Utica, N.Y.: State Hospital Press.
- Ferraro, A., and Jarvis, G., 1936, "Pick's Disease. Clinico-pathologic Study with Report of Two Cases." *Archives of Neurology and Psychiatry*, 36:739.
- ____, 1939, "Brain Pathology in Four Cases of Schizophrenia Treated with Insulin." *Psychiatric Quarterly*, 13:419.

- Ferreira, A. J., 1959, "Psychotherapy with Severely Regressed Schizophrenics." *Psychiatric Quarterly*, 33:664-682.
- _____, 1963, "Family Myth and Homeostasis." *Archives of General Psychiatry*, 9:457.
- _____, 1967, "Psychosis and Family Myth." *American Journal of Psychotherapy*, 21:186-197.
- Fessel, W. J., 1962, "Blood Proteins in Functional Psychoses: A Review of the Literature and Unifying Hypothesis." *Archives of General Psychiatry*, 6:132-148.
- Festinger, L., 1957, *A Theory of Cognitive Dissonance*. Stanford, Calif.: Stanford University Press.
- Fiamberti, A. M., 1947, "Indicazioni e tecnica della leucotomia prefrontale transorbitaria." *Rassegne di Neuropsichiatria*, 1:3.
- Fink, M., Simeon, J., Hague, W., and Itil, I., 1966, "Prolonged Adverse Reactions to LSD in Psychotic Subjects." *Archives of General Psychiatry*, 15:450-454.
- Finkelman, I., and Haffron, D., 1937, "Observations on Circulating Blood Volume in Schizophrenia, Manic-Depressive Psychosis, Epilepsy, Involutional Psychosis and Mental Deficiency." *Am. J. Psychiatry*, 93:917.
- Fisher, C., 1954, "Dream and Perception. The Role of Preconscious and Primary Modes of Perception in Dream Formation." *Journal of the American Psychoanalytic Association*, 2:380-445.

- ____, 1960, "Subliminal and Supraliminal Influences on Dreams." *American Journal of Psychiatry*, 116:1009-1017.
- Fisher, C., and Dement, W., 1963, "Studies on the Psychopathology of Sleep and Dreams." *American Journal of Psychiatry*, 119:1160.
- Fisher, C., and Paul, I. H., 1959, "The Effect of Subliminal Visual Stimulation on Images and Dreams: A Validation Study." *Journal of the American Psychoanalytic Association*, 7:35-83.
- Fleck, S., 1960, "Family Dynamics and Origin in Schizophrenia." *Psychosomatic Medicine*, 22:333-344.
- Forrest, D. V., 1965, "Poiesis and the Language of Schizophrenia." *Psychiatry*, 28:1-18.
- ____, 1968, "The Patient's Sense of the Poem: Affinities and Ambiguities." In Leed (ed.), *Poetry Therapy*. Philadelphia: Lippincott.
- ____, 1969, "New Words and Neologisms with a Thesaurus of Coinages by a Schizophrenic Savant." *Psychiatry*, 32:44-73.
- Foudraine, J., 1961, "Schizophrenia and the Family, a Survey of the Literature 1956-1960 on the Etiology of Schizophrenia." *Acta Psychotherapeutica*, 9:82-110.
- Freeman, H., Hoskins, R. G., and Sleeper, F. H., 1932, "Blood Pressure in Schizophrenia." *Archives of Neurology and Psychiatry*, 27:333.
- Freeman, T., 1951, "Pregnancy as a Precipitant of Mental Illness in Men." *British Journal of Med. Psychol.*, 24:49-54.

- Freeman, T. (ed.), 1966, *Studies in Psychosis*. New York: International Universities Press.
- Freeman, W., 1949, "Transorbital Leucotomy: The Deep Frontal Cut." In *Proceedings of the Royal Society of Medicine*, 47:8.
- Freeman, W., and Watts, J. W., 1942, *Psychosurgery*. Springfield, 111.: Thomas.
- Freud, S., 1894, "The Defence Neuro-Psychoses." *Neurologisches Zentralblatt*, vols. 10, 11. Reprinted in *Collected Papers*, vol. 1, pp. 59-75.
- _____, 1896, "Further Remarks on the Defence Neuro-Psychoses." *Neurologisches Zentralblatt*, October 1896, No. 10. Reprinted in *Collected Papers*, vol. 1, pp. 155-182.
- _____, 1901, *The Interpretation of Dreams*. New York: Basic Books, 1960.
- _____, 1904, "On Psychotherapy." *Collected Papers*, vol. 1. London: Hogarth Press, 1946.
- _____, 1911, "Psycho-Analytic Notes upon an Autobiographical Account of a Case of Paranoia (Dementia Paranoides)." *Jahrbuch für psychoanalytische und psychopathologische Forschungen*, vol. 3, 1911. Reprinted in *Collected Papers*, vol. 3, pp. 387—470.
- _____, 1914. "On Narcissism: An Introduction." *Jahrbuch*, vol. 4, 1914. Reprinted in *Collected Papers*, vol. 4, pp. 30-59.
- _____, 1923, *The Ego and the Id. Standard Edition*, vol. 19, pp. 12-63. London: Hogarth. New York: Macmillan. First published as *Das Ich und das Es*.

- ____, 1924a, "Neurosis and Psychosis." *Zeitschrift*, vol. 4. Reprinted in *Collected Papers*, vol. 2, pp. 250-254.
- ____, 1924b, "The Loss of Reality in Neurosis and Psychosis." In *Collected Papers*, vol. 2, pp. 277-282.
- ____, 1931, "Female Sexuality." In *Collected Papers*, vol. 5, pp. 252-272. New York: Basic Books, 1959.
- ____, 1937, "Constructions in Analysis." Reprinted in *Collected Papers*, vol. 5, p. 358. London: Hogarth.
- ____, 1938a, "Psychopathology of Everyday Life." In Brill, A. A. (ed.), *The Basic Writings of Sigmund Freud*, pp. 33-178. New York: modern Library.
- ____, 1938b, *A General Introduction to Psychoanalysis*. New York: Garden City Publishing Co.
- ____, 1940, "An Outline of Psychoanalysis." *Standard Edition*, vol. 23, pp. 141-208. London: Hogarth. New York: Macmillan. First published as "Abriss der Psychoanalyse."
- ____, 1946, *Collected Papers*, vols. 1-5. New York, London, Vienna: The International Psychoanalytical Press.
- Friedhoff, A. J., and Van Winkle, E., 1967, "New Developments in the Investigation of the Relationship of 3,4-dimethoxyphenylethylamine to Schizophrenia." In Himwich, H. E., Kety, S. S., and Smythies, J. R. (eds.), *Amines and Schizophrenia*. Oxford: Pergamon Press.

- Frohman, C. E., and Gottlieb, J. S., 1974, "The Biochemistry of Schizophrenia." In Arieti, S. (ed.), *American Handbook of Psychiatry*, (2nd ed.), vol. 3. New York: Basic Books.
- Fromm-Reichmann, F., 1939, "Transference Problems in Schizophrenia." *The Psychoanalytic Quarterly*, 8:412.
- _____, 1942, "A Preliminary Note on the Emotional Significance of Stereotypes in Schizophrenics." *Bulletin of the Forest Sanitarium*, 1:17-21. Reprinted in Bullard, 1959.
- _____, 1948, "Notes on the Development of Treatment of Schizophrenia by Psychoanalytic Psychotherapy." *Psychiatry*, 11:263-273.
- _____, 1950, *Principles of Intensive Psychotherapy*. Chicago: University of Chicago Press.
- _____, 1952, "Some Aspects of Psychoanalytic Psychotherapy with Schizophrenics." In Brody, E. B., and Redlich, R. C., *Psychotherapy with Schizophrenics*. New York: International Universities Press.
- _____, 1954, "Psychotherapy of Schizophrenia." *American Journal of Psychiatry*, 111:410.
- _____, 1958, "Basic Problems in the Psychotherapy of Schizophrenia." *Psychiatry*, 21:1.
- Frosch, J., 1964, "The Psychotic Character." *Psychiatric Quarterly*, 38:81-96.
- Fulton, J. F., 1951, *Frontal Lobotomy and Affective Behavior*. New York: Norton.

Gabel, J., 1948, "Symbolisme et Schizophrenie," *Revue Suisse de Psychologie et de psychologie applique*, 7:268.

_____, 1962, *La Fausse conscience*. Paris: Les Editions de Minuit.

Gallant, D. M., and Steele, C. A., 1966, "DPN (NAD-oxidized form): A Preliminary Evaluation in Chronic Schizophrenic Patients." *Curr. Ther. Res.*, 8:542.

Galli, P., 1963, "The Psychotherapist and the Psychotic Family." Unpublished lecture.

Gelb, A., and Goldstein, K., 1920, *Psychologische Analysen hirnpathologischer Falle*. Leipzig: Barth.

Gentili, C., Muscatello, C. F., Ballerini, A., and Agresti, E., 1965, "Psicopatologia del vissuto corporeo nella schizofrenia: studio clinico e fenomenologico dei deliri a tema somatico." *Rivista Sperimentale di Freniatria*, 89:1077-1139.

Gibbs, F. A., and Gibbs, E. L., 1963, "The Mitten Pattern. An Electroencephalographic Abnormality Correlating with Psychosis." *Journal of Neuropsychiatry*, 5:6-13.

Giberti, F., De Carolis, V., and Rossi, R., 1961, "La Schizofrenia tardiva." *Sistema Nervoso*, 480-499.

Glaser, G. H., 1964, "The Problem of Psychosis in Psychomotor Temporal Lobe Epileptics." *Epilepsia*, 5:271-278.

Globus, J. H., Harreveld, A. Van, and Wiersma, C. A. G., 1943, "The Influence of

Electric Current Application on the Structure of the Brain of Dogs.”
J. Neuropath. & Exper. Neurol., 2:263.

Goffman, E., 1961, *Asylums. Essays on the Social Situation of Mental Patients and Other Inmates*. Garden City, N.Y.: Doubleday.

Goldberg, E. M. and Morrison. ST L., 1963, “Schizophrenia and Social Class.”
Brit. J. Psychiat., 109:785-802.

Goldfarb, W., 1961, *Childhood Schizophrenia*. Cambridge, Mass.:
Commonwealth Fund-Harvard University Press.

Goldman, A. E., 1960, “Symbolic Representation in Schizophrenia.” *Journal of Personality*, 28:293-316.

Goldstein, K., 1939, *The Organism*. New York: American Book.

____, 1943a, “The Significance of Psychological Research in Schizophrenia.”
Journal of Nervous and Mental Disease, 97:261-279.

____, 1943b, “Some Remarks on Russel Brain’s Articles Concerning Visual
Object Agnosia.” *Journal of Nervous and Mental Disease*, 98:148-
153.

____, 1959, “The Organismic Approach.” In Arieti, S. (ed.), *American Handbook
of Psychiatry*, vol. 2, pp. 1333-1347. New York: Basic Books.

Goldstein, K., and Gelb, A., 1920, *Psychologische Analyse hirnpathologischer
Falle*, vol. 1, pp. 1-43. Leipzig: Barth.

Gondor, L., 1963, “The Fantasy of Utopia.” *American Journal of Psychotherapy*,

17:606-618.

Gordon, H. L., 1948, "Fifty Shock Therapy Theories." *The Military Surgeon*, 103:397-401.

Gomall, A. G., Eglitis, B., Miller, A., Stokes, A. B., and Dewan, J. G., 1953, "Long-Term Clinical and Metabolic Observations in Periodic Catatonia. An Application of the Kinetic Method of Research in Three Schizophrenic Patients." *American Journal of Psychiatry*, 109:584-594.

Gottesman, I. I., and Shields, J., 1966, "Contributions of Twin Studies to Perspectives on Schizophrenia." In Maher, B. A. (ed.), *Progress in Experimental Personality Research 3*. New York: Academy Press.

Gottlieb, J. S., 1936, "Relationship of the Systolic to the Diastolic Blood Pressure in Schizophrenia. The Effect of Environmental Temperature." *Archives of Neurology and Psychiatry*, 35:1256.

Graetz, B., Reiss, M., and Waldon, G., 1954, "Benzoic Acid Detoxication in Schizophrenic Patients." *J. Ment. Science*, 100:145-148.

Gralnick, A., 1942, "Folie a Deux. The Psychosis of Association." *Psychiatric Quarterly*, 16:230-263, 16:491-520.

_____, 1962, "Family Psychotherapy: General and Specific Considerations." *American J. of Orthopsychiatry*, 32:515-526.

_____, 1969, *The Psychiatric Hospital as a Therapeutic Instrument*. New York: Brunner-Mazel.

- Gralnick, A., and Schween, P. H., 1966, "Family Therapy." *Psychiatric Research Report*, No. 20:212-217.
- Grassi, B., 1961, "Un contributo alio studio della poesia schizofrenica." *Rassegne di Neuropsichiatria*, 15:107-119.
- Green, H. W., 1939, *Persons Admitted to the Cleveland State Hospital, 1928-1937*. Cleveland: Cleveland Health Council.
- Greenblatt, M., and Solomon, H. C., 1953, *Frontal Lobes and Schizophrenia*. New York: Springer.
- Greene, M. A., 1962, "The Stormy Personality." *Psychoanalysis and Psychoanalytic Review*, 49:55-67.
- Greenson, R., 1974, "The Theory of Psychoanalytic Technique." In Arieti, S. (ed.), *American Handbook of Psychiatry*, 2nd ed., vol. 1. New York: Basic Books.
- Greiner, A. C., and Berry, K., 1964, "Skin Pigmentation and Comeal Lens Opacities with Prolonged Chlorpromazine Therapy." *Canadian Medical Association Journal*, 90:663-664.
- Grinspoon, L., Ewalt, J., and Shader, R., 1967, "Long-Term Treatment of Chronic Schizophrenia." *International Journal of Psychiatry*, 4:116-128.
- Grosz, H. J., and Miller, I., 1958, "Siblings Patterns in Schizophrenia." *Science*, 128:30.
- Guntrip, H., 1961, *Personality Structure and Human Interaction*. New York:

International Universities Press.

____, 1966, "The Object-Relations Theory of W. R. D. Fairbairn." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 3., pp. 230-235. York: Basic Books.

____, 1968, *Schizoid Phenomena, Object Relations and the Self*. New York: International Universities Press.

____, 1973, "Science, Psychodynamic Reality and Autistic Thinking." *Journal of the American Academy of Psychoanalysis*, 1:3-22.

Gutheil, E. A., 1951, *The Handbook of Dream Analysis*. New York: Liveright.

Guttmacher, M. S., 1960, *The Mind of the Murderer*. New York: Farrar, Straus and Cudahy.

Guze, S. B., Goodwin, D. W., and Crane, J. B., 1969, "Criminality and Psychiatric Disorders." *Archives of General Psychiatry*, 20:583-591.

Haley, J., 1959, "The Family of the Schizophrenic. A Model System." *Journal of Nervous and Mental Disease*, 129:357-374.

Halevi, H. S., 1963, "Frequency of Mental Illness among Jews in Israel." *Int. J. Soc. Psychiat.*, 9:268-282.

Hamilton, G. V., 1911, "A Study of Trial and Error Reactions in Mammals." *Journal of Animal Behavior*, 1:33.

Hamilton, J. A., 1962, *Postpartum Psychiatric Problems*. St. Louis: Mosby.

- Hanfmann, E., and Kasanin, J., 1942, *Conceptual Thinking in Schizophrenia*. Nervous and Mental Disease Monographs Series No. 67. New York.
- Hare, E. H., and Price, J. S., 1968, "Mental Disorder and Season of Birth: Comparison of Psychoses with Neurosis." *British Journal of Psychiatry*, 115:533-540.
- Harlow, H. F., Wehling, H., and Maslow, A. H., 1932, "Comparative Behavior of Primates: Delayed Reaction Tests on Primates." *J. Comp. Psychol.*, 13:13.
- Harrow, M., Tucker, G. J., and Bromet, E., 1969, "Short-Term Prognosis of Schizophrenic Patients." *Archives of General Psychiatry*, 21:195-202.
- Hartmann, H., 1950a, "Psychoanalysis and Development Psychology." In *The Psychoanalytic Study of the child*, vol. 5. New York: International Universities Press.
- _____, 1950b, "Comments on the Psychoanalytic Theory of the Ego." In *The Psychoanalytic Study of the Child*, vol. 5. New York: International Universities Press.
- _____, 1953, "Contribution to the Metapsychology of Schizophrenia." In *The Psychoanalytic Study of the Child*, vol. 8, pp. 177-198. New York: International Universities Press.
- _____, 1956, "Notes on the Reality Principle." In *The Psychoanalytic Study of the Child*, vol. 11, p. 31. New York: International Universities Press.
- _____, 1964, *Essays on Ego Psychology*. New York: International Universities

Press.

Hartmann, H., Kris, E., and Loewenstein, R. M., 1945, "Comments on the Formation of Psychic Structure." In *The Psychoanalytic Study of the Child*, vol. 2, p. 11. New York: International Universities Press.

Hauptmann, A., and Myerson, A., 1948, "Studies of Finger Capillaries in Schizophrenic and Manic-Depressive Psychoses." *Journal of Nervous and Mental Disease*, 108:91-108.

Head, H., 1920, *Studies in Neurology*. London: Oxford.

_____, 1926, *Aphasia and Kindred Disorders of Speech*. New York: Macmillan.

Heath, R. G., 1957, "Effect on Behavior in Humans with the Administration of Taraxein." *Am. J. Psychiatry*, 114:14-24.

_____, 1963, *Serological Fractions in Schizophrenia*. New York: Hoeber.

Heath, R. G., and Krupp, I. M., 1967, "Schizophrenia as an Immunologic Disorder." *Archives of General Psychiatry*, 16:1-33.

Heath, R. G., Martens, S., Leach, B. E., Cohen, M., and Feigley, C. A., 1958, "Behavioral Changes in Nonpsychotic Volunteers following the Administration of Taraxein, the Substance Obtained from the Serum of Schizophrenic Patients." *American Journal of Psychiatry*, 114:917-920.

Hebb, D. O., 1954, "The Problems of Consciousness and Introspection." In Delafresnaye, J. F. (ed.), *Brain Mechanisms and Consciousness*. Springfield, Ill.: Thomas.

- Hemphill, R. E., 1944. "Significance of Atrophy of Testis in Schizophrenia."/. *Ment. Sci.*, 90:696.
- _____, 1951, "A Case of Genital Self-Mutilation." *British Journal of Med. Psychol.*, 24:291.
- Hemphill, R. E., Reiss, M., and Taylor, A. L., 1944, "A Study of the Histology of the Testis in Schizophrenia and Other Mental Disorders." *J. Ment. Sci.*, 90:681.
- Henderson, D. K., and Gillespie, R. D., 1941, *A Text-Book of Psychiatry*. 5th ed. New York: Oxford University Press.
- Henderson, J. L., and Wheelwright, J. B., 1974, "Analytical Psy." In Arieti, S. (ed.), *American Handbook of Psychiatry*, (2nd ed.), vol. 1. New York: Basic Books.
- Henle, M., 1962, "On the Relation between Logic and Thinking." *Psychological Review*, 69:366-378.
- Heron, W., Bexton, W. H., and Hebb, D. O., 1953, "Cognitive Effects of Decreased Variation in the Sensory Environment." *Amer. Psychol.*, 8:366.
- Heron, W., Doane, B. K., and Scott, T. H., 1956, "Visual Disturbances after Prolonged Isolation." *Canadian Journal of Psychology*, 10:13.
- Higgins, J., 1964, "The Concept of Process-reactive Schizophrenia: Criteria and Related Research." *J. Nerv. Ment. Dis.*, 138:9025.
- _____, 1969, "Process-Reactive Schizophrenia." *Journal of Nervous and Mental*

Disease, 149:350-472.

Hill, D., 1957, "Electroencephalogram in Schizophrenia." In Richter, D., *Schizophrenia*. New York: Macmillan.

Hill, L. B., *Psychotherapeutic Intervention in Schizophrenia*. Chicago: University of Chicago Press, 1955.

Himwich, H. E., Kety, S. S., and Smythies, J. R. (eds.), 1966, *Amine Metabolism in Schizophrenia*. Oxford: Pergamon.

Hinsie, L. E., 1930, *The Treatment of Schizophrenia*. Baltimore: Williams and Wilkins.

Hinsie, L. E., and Campbell, R. J., 1960, *Psychiatric Dictionary*. New York: Oxford University Press.

Hinsie, L. E., and Shatzky, J., 1950, *Psychiatric Dictionary*. New York: Oxford University Press.

Hoch, P., 1955, "The Effect of Chlorpromazine on Moderate and Mild Mental Emotional Disturbance." In *Chlorpromazine and Mental Health*. New York: Lea Febiger.

Hoch, P., and Polatin, P., 1949, "Pseudoneurotic Forms of Schizophrenia." *Psychiatric Quarterly*, 23:248-276.

Hoch, P., and Zubin, J., 1966, *Psychopathology of Schizophrenia*. New York: Grune & Stratton.

Hoedemaker, F. S., 1970, "Psychotic Episodes and Postpsychotic Depression

in Young Adults." *American Journal of Psychiatry*, 127:606-610.

Hoffer, A., 1966, "The Effects of Nicotinic Acid on the Frequency and Duration of Re-Hospitalization of Schizophrenic Patients; A Controlled Comparison Study." *International Journal of Neuropsychiatry*, 2:334.

_____, 1971, "Megavitamin B3 Therapy for Schizophrenia." *Canadian Psychiatric Association Journal*, 16:499.

Hoffer, A., and Osmond, H., 1964, "Treatment of Schizophrenic with Nicotinic Acid. A Ten-Year Follow-Up." *Acta Psychiat. Scand.*, 40:171.

Hoffer, A., Osmond, H., Callbeck. M. J., and Kahan, I., 1957, "Treatment of Schizophrenia with Nicotinic Acid and Nicotinamide." *J. Clin. Exp. Psychopathol.*, 18:131-158.

Hoffer, A., Osmond, H., and Smythies, J., 1954, "Schizophrenia: A New Approach." *J. Ment. Sci.*, 100:29-54.

Hollingshead, A. B., and Redlich, F. C., 1954, "Schizophrenia and Social Structure." *American Journal of Psychiatry*, 110:695-701.

_____, 1958, *Social Class and Mental Illness*. New York: Wiley.

Hollister, L. E., 1968, *Chemical Psychoses LSD and Related Drugs*. Springfield, Ill.: Thomas.

Horney, K., 1937, *The Neurotic Personality of Our Time*. New York: Norton.

_____, 1945, *Our Inner Conflicts*. New York: Norton.

____, 1950, *Neurosis and Human Growth*. New York: Norton.

Horwitt, M. K., 1956, "Fact and Artifact in the Biology of Schizophrenia." *Science*, 124:429.

Horwitz, W. A., Polatin, P. Kolb, L. C., and Hoch, P. H., 1958, "A Study of Cases of Schizophrenia Treated by 'Direct Analysis.' " *Am. J. Psychiat.*, 114:780.

Hoskins, R. G., 1932, "Oxygen Consumption (Basal Metabolic Rate) in Schizophrenia. II. Distributions in Two Hundred and Fourteen Cases." *Archives of Neurology and Psychiatry*, 28:1346.

____, 1937, "Oxygen Metabolism in Schizophrenia." *Archives of Neurology and Psychiatry*, 38:1261.

____, 1946, *The Biology of Schizophrenia*. New York: Norton.

Huizinga, J., 1924, *The Waning of the Middle Ages*. Garden City, N.Y.: Doubleday, 1956.

Hunt, R. C., 1958, "Ingredient of a Rehabilitation Program." In *An Approach to the Prevention of Disability from Chronic Psychoses*. New York: Milbank Memorial Fund.

Hunter, W. S., 1913, "The Delayed Reaction in Animals and Children." *Behavior Monographs*, 2:86.

Igert, C., and Lairy, G. C., 1962, "Prognostic Value of EEG in the Development of Schizophrenics." *Electroenceph. Clin. Neurophysiol.*, 14:183-190.

- Itil, T. M., 1973, "Drug Treatment of Therapy-Resistant Schizophrenic Patients." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 2, pp. 246-264. New York: Basic Books.
- Ivanov-Smolenskij, A., 1934, "The Various Forms and the Neurodynamics of Catatonic Stupor." *Archives of Biological Sciences*, 36:85-106. Originally published in Russian.
- Jackson, A. P. Comments in Whitaker, C. A., *Psychotherapy of Chronic Schizophrenic Patients*. Boston: Little, Brown, 1958.
- Jackson, D. D., 1960, *The Etiology of Schizophrenia*. New York: Basic Books.
- _____, 1967a, "The Transactional Viewpoint." *International Journal of Psychiatry*, 4:453.
- _____, 1967b, "Schizophrenia. The Nosological Nexus." In Romano, J., *The Origins of Schizophrenia*. Amsterdam: Excerpta Medica Foundation, 1968.
- Jackson, J. H., 1932, *Selected Writings*. London: Hodder and Stoughton. Reprinted by Basic Books, New York, 1958.
- Jacobi, J., 1943, *The Psychology of Jung*. New Haven, Conn.: Yale University Press.
- Jacobson, E., 1967, *Psychotic Conflict and Reality*. New York: International Universities Press.
- James, W., 1950, *Principles of Psychology*. New York: Dover Publications, Inc.

- Jamieson, G. R., 1936, "Suicide and Mental Disease." *Archives of Neurology and Psychiatry*, 36:1.
- Janzarik, W., 1957, "Zur Problematik Schizophrener Psychosen im Hoheren Lebensalter." *Nervenarzt*, 28:535.
- Jaspers, K., 1946, *General Psychopathology*. Reprinted in English by University of Chicago Press, Chicago, 1964.
- Johanson, E., 1964, "Mild Paranoia. Description and Analysis of Fifty-Two In-Patients from an Open Department for Mental Diseases." *Acta Psychiatrica Scandinavica Supplement 177*, pp. 1-100.
- Johnson, A. M., Giffin, M. E., Watson, E. J., and Beckett, P. G. S., 1956, "Studies in Schizophrenia at the Mayo Clinic. II. Observations on Ego Functions in Schizophrenia." *Psychiatry*, 19:143-148.
- Jones, E., 1938, *Papers on Psycho-Analysis*. Baltimore: Wood.
- Jones, J., 1953, *The Therapeutic Community: A New Treatment Method in Psychiatry*. New York: Basic Books.
- Josephy, H., 1930, "Dementia Praecox (Schizophrenic)." In Bumke, O., *Handbuch der Geisteskrankheiten*. Berlin: Springer.
- Jung, C. G., 1910, "The Association Method." *American Journal of Psychology*, 21:219-269.
- _____, 1917, "The Content of the Psychoses." In *Collected Papers on Analytical Psychology*. London: Tindall & Cox, 1917.

- ____, 1918, *Studies in Word Association*. London: Heinemann.
- ____, 1920, "A Contribution to the Study of Psychological Types." In *Collected Papers on Analytical Psychology*. London: Bailliere, Tindall & Cox.
- ____, 1921, *Psychology of the Unconscious*. Translated by B. M. Hinkle. New York: Moffat, Yard.
- ____, 1933, *Psychological Types*. New York: Harcourt, Brace.
- ____, 1936 (originally 1903), *The Psychology of Dementia Praecox*. Nervous and Mental Disease Monograph Series No. 3. New York.
- ____, 1939, "On the Psychogenesis of Schizophrenia." Lecture given at the Section of Psychiatry of the Royal Society of Medicine, London, 1939. *Journal of Mental Science*.
- ____, 1959, "The Archetypes and the Collective Unconscious." In Jung, C. G., *Collected Works*. New York: Pantheon.
- Jung, R., and Carmichael, E. A., 1937, "Über Vasomotorische Reaktionen und Warmerregulation im Katatonischen Stupor." *Arch. f. Psychiat.*, 107:330.
- Kagan, J., 1972, "Do Infants Think?" *Scientific American*, 226(3):74-83.
- Kahlbaum, K. L., 1863, *Gruppierung der Psychischen Krankheiten*. Danzig: Kafemann.
- ____, 1874, *Die Katatonie oder das Spannungsirresein*. Berlin: Hirschwald.

Kalinowsky, L. B., 1945, "Organic Psychotic Syndromes Occurring During Electric Convulsive Therapy." *Archives of Neurology and Psychiatry*, 53:269.

Kalinowsky, L. B., and Hippus, H., 1969, *Pharmacological, Convulsive and Other Somatic Treatments in Psychiatry*. New York: Grune & Stratton.

Kallmann, F. J., 1938, *The Genetics of Schizophrenia*. Locust Valley, N.Y.: August.

____, 1953, *Heredity in Health and Mental Disorder*. New York: Norton.

____, 1959, "The Genetics of Mental Illness." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 1, pp. 175-196. New York: Basic Books.

Kallmann, F. J., and Barrera, E., 1941, "The Heredo-Constitutional Mechanisms of Predisposition and Resistance to Schizophrenia." *American Journal of Psychiatry*, 98:544.

Kanner, L., 1942, *Child Psychiatry*. Springfield: Thomas.

____, 1944, "Early Infantile Autism." *J. Pediat.*, 25:211.

____, 1946, "Irrelevant and Metaphorical Language in Early Infantile Autism." *Am. J. Psychiat.*, 103:242.

____, 1965, "Infantile Autism and the Schizophrenias." *Behavioral Science*, 10:412-420.

Kantor, D., and Gelineau, V. A., 1969, "Making Chronic Schizophrenics." *Mental*

Hygiene, 53:54-66.

Kantor, R. E., and Herron, W. G., 1966, *Reactive and Process Schizophrenia*. Palo Alto, Calif.: Science and Behavior Books.

Kaplan, A. R., 1972, *Genetic Factors in "Schizophrenia."* Springfield, Ill.: Thomas.

Kaplan, A. R., and Cotton, J. E., 1968, "Chromosomal Abnormalities in Female Schizophrenics." *Journal of Mental and Nervous Disease*, 147:402-117.

Kaplan, E. H., and Blackman, L. H., 1969, "The Husband's Role in Psychiatric Illness Associated with Childbearing." *Psychiatric Quarterly*, 43:396-409.

Karlsson, J. L., 1966, *The Biologic Basis of Schizophrenia*. Springfield, Ill.: Thomas.

Karpov, P. I., 1926. Quoted by Volmat, 1955.

Kasanin, J. S., 1933, "The Acute Schizoaffective Psychosis." *American Journal of Psychiatry*, 90:97-126.

____(ed.), 1944 a, *Language and Thought in Schizophrenia: Collected Papers*. Berkeley: University of California Press.

____, 1944b, "The Disturbance of Conceptual Thinking in Schizophrenia." In Kasanin, J. S. (ed.), *Language and Thought in Schizophrenia: Collected Papers*, pp. 41-49. Berkeley: University of California Press.

- ____, 1945, "Developmental Roots of Schizophrenia." *American Journal of Psychiatry*, 101:770.
- Kay, D. W. K., and Roth, M., 1961, "Environmental and Hereditary Factors in the Schizophrenia of Old Age (Late Paraphrenia) and Their Bearing on the General Problem of Causation in Schizophrenia." *Journal Ment. Sci.*, 107:649-686.
- Keller, H., 1951, *The Story of My Life*. New York: Doubleday.
- Kellogg, W. N., and Kellogg, L. A., 1933, *The Ape and the Child*. New York: McGraw-Hill. Quoted by Langer (1942), *Philosophy in a New Key*. Cambridge, Mass.: Harvard University Press.
- Kelman, H., 1973, "Chronic Analysts and Chronic Patients: The Therapist's Person as Instrument." *Journal of the American Academy of Psychoanalysis*, 1:193-207.
- Kelsen, H., 1943, *Society and Nature: A Sociological Inquiry*. Chicago: University of Chicago Press.
- Kety, S. S., 1959, "Biochemical Theories of Schizophrenia. A Two-Part Critical Review of Current Theories and of the Evidence Used to Support Them." *Science*, 129:1528-1532, 1590-1596.
- ____, 1966, "Current Biochemical Research in Schizophrenia." In Hoch, P. H., and Zubin, J., *Psychopathology of Schizophrenia*. New York: Grune & Stratton.
- ____, 1969, "Biochemical Hypotheses and Studies." In Beliak, L., and Loeb, L. (eds.), *The Schizophrenic Syndrome*. New York: Grune & Stratton.

- ____, 1972, "Progress in the Psychobiology of Schizophrenia: Implications for Treatment." Paper presented at a Symposium on "Treatment of Schizophrenia. Progress and Prospects," March 18, 1972. The Neuropsychiatric Institute, UCLA.
- Kiev, A., 1961, "Spirit Possession in Haiti." *American Journal of Psychiatry*, 118:133-141.
- ____, 1969, "Transcultural Psychiatry: Research Problems and Perspectives." In Plog, S. C., and Edgerton, R. B. (eds.), *Changing Perspectives in Mental Illness*. New York: Holt, Rinehart & Winston.
- Kimmins, C. W., 1937, *Children's Dreams*. London: Allen and Unwin.
- Kinsboume, M., and Warrington, E., 1963, "Jargon Aphasia." *Neuropsychologia*, 1:27-37.
- Klein, H. R., and Horwitz, W. A., 1949, "Psychosexual Factors in the Paranoid Phenomena." *American Journal of Psychiatry*, 105:697.
- Klein, M., 1948, *Contributions to Psycho-Analysis*. London: Hogarth.
- Kline, N. A., 1956, "Clinical Applications of Reserpine." In Kline, N. S., *Psychopharmacology*, No. 42 of the American Association for the Advancement of Science, Washington, D. C.
- Kline, N. S., and Tenney, A. M., 1950, "Constitutional Factors in the Prognosis of Schizophrenia." 107:434.
- Klippel, R., and Lhermitte, J., 1906, "Ruckenmarkslasion bei Dementia Praecox." *Neurolog. Zentralbl.*, 25:735.

Klüver, H., 1933, *Behavior Mechanisms in Monkeys*. Chicago: University of Chicago Press.

____, 1936, "The Study of Personality and the Method of Equivalent and Non-Equivalent Stimuli." *Character and Personality*, 5:91-112.

Klüver, H., and Bucy, P. C., 1937, " 'Psychic Blindness' and Other Symptoms Following Bilateral Temporal Lobectomy in Rhesus Monkeys." *American Journal of Physiology*, 119:352.

____, 1938, "An Analysis of Certain Effects of Bilateral Temporal Lobectomy in the Rhesus Monkey with Special Reference to 'Psychic Blindness.'" *Journal of Psychology*, 5:33.

____, 1939, "Preliminary Analysis of Functions of the Temporal Lobes in Monkeys." *Archives of Neurology and Psychiatry*, 42:972.

Kohler, W., 1925, *The Mentality of Apes*. New York: Harcourt, Brace.

Kolb, L. C., 1959a, "Disturbances of the Body-Image." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 1, pp. 749-769. New York: Basic Books.

____, 1959b, "The Body Image in the Schizophrenic Reaction." In Auerback, A. (ed.), *Schizophrenia. An Integrated Approach*. New York: Ronald Press.

____, 1968, *Noyes' Modern Clinical Psychiatry*. 7th ed. Philadelphia: Saunders.

Koller, S., 1957. Quoted by Roth, M., "Interaction of Genetic and Environmental Factors in Causation of Schizophrenia." In Richter,

- D. (ed.), *Schizophrenia: Somatic Aspects*. New York: Macmillan.
- Kopeloff, L. M., and Fischel, E., 1963, "Serum Levels of Bactericidin and Globulin in Schizophrenia." *Archives of General Psychiatry*, 9:524-528.
- Korzybski, A., 1933, *Science and Sanity: An Introduction to Non-Aristotelian Systems and General Semantics*. International Nonaristotelian Library Publishing Co.
- Kraepelin, E., 1919, *Dementia Praecox and Paraphrenia*. From 8th German ed. Edinburgh: Livingston.
- Kraft, A. M., 1966, "The Therapeutic Community." In Arieti, S. (ed.), *American Handbook of Psychiatry*, First Ed., vol. 3, pp. 542-551. New York: Basic Books.
- Kraft, D. P., and Babigian, H. M., 1972, "Somatic Delusion or Self-Mutilation in a Schizophrenic Woman: A Psychiatric Emergency Room Case Report." *American Journal of Psychiatry*, 128:893-895.
- Kramer, B., 1962, *Day Hospital*. New York: Grune & Stratton.
- Kretschmer, E., 1925, *Physique and Character*. New York: Harcourt, Brace.
- _____, 1934, *A Text-Book of Medical Psychology*. London: Oxford University Press.
- Kreig, W. J. S., 1947, *Functional Neuroanatomy*. Philadelphia: Blakiston.
- Kringlen, E., 1967, *Heredity and Environment in the Functional Psychoses: An*

Epidemiological-Clinical Twin Study. London: Heinemann.

____, 1968, "An Epidemiological-Clinical Twin Study on Schizophrenia." In Rosenthal, S., and Kety, S. S., 1968. *The Transmission of Schizophrenia*. New York: Pergamon Press.

Kris, E. B., and Carmichael, D. M., 1957, "Follow-up Study on Thorazine Treated Patients." *American Journal of Psychiatry*, 114:449.

____, 1970, "New Studies on the Genetics of Schizophrenia. In Arieti, S. (si.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 1, pp. 476-504. New York: Basic Books.

Kubie, L. S., 1971, "Multiple Fallacies in the Concept of Schizophrenia." *Journal of Nervous and Mental Disease*, 153:331-342.

Laing, R. D., 1960, *The Divided Self*. London: Tavistock.

____, 1967, *The Politics of Experience*. New York: Pantheon Books.

Laing, R. D., and Esterson, A., *Sanity, Madness and the Family*. Vol. 1, *Families of Schizophrenics*. New York: Basic Books, 1965.

Landis, C., and Page, J. D., 1938, *Society and Mental Disease*. New York: Rinehart.

Landolt, H., 1957, "Elektroenzephalografische Untersuchungen bei nicht Katatonen Schizophrenen. Eine Vorläufige Mitteilung." *Schweiz. Z. Psychol.*, 16:26-30.

Langer, S. K., 1942, *Philosophy in a New Key*. Cambridge, Mass.: Harvard

University Press.

____, 1949, "On Cassirer's Theory of Language and Myth." In *The Philosophy of Ernst Cassirer*. Evanston, Ill.: Library of Living Philosophers.

Langfeldt, G., 1939, *The Schizophreniform States*. London: Oxford University Press.

____, 1969, "Schizophrenia: Diagnosis and Prognosis." *Behavioral Science*, 14.

Laqueur, H. P., and La Burt, H. A., 1960, "Coma Therapy with Multiple Insuline Doses." *Journal of Neuropsychiatry*, 1:135.

Laubscher, B. J. F., 1937, *Sex, Custom and Psychopathology*. London: Routledge.

Layman, W. A., and Cohen, L., 1957, "Modern Concept of Folie a Deux." *Journal of Nervous and Mental Disease*, 125:412-19.

Lefebure, P., Atkins, J., Duckman, J., and Galnick, A., 1958, "The Role of the Relative in a Psychotherapeutic Program: Anxiety Problems and Defensive Reactions Encountered." *Canadian Psychiatric Association Journal*, 3:110-118.

Lehmann, H. E., 1965, "Drug Treatment of Schizophrenia." In Kline, N. S., and Lehmann, H. E. (eds.), *Psychopharmacology*. International Psychiatric Clinics, Vol. 2, No. 4, October 1965. Boston: Little, Brown.

____, 1974, "Physical Therapies of Schizophrenia." In Arieti, S. (ed.), *American Handbook of Psychiatry*, Second Edition, vol. 3. New York: Basic Books.

- Lehmann, H. E., and Knight, D. A., 1958, "Psychophysiological Testing with a New Phrenotropic Drug." In *Trifluoperazine*. Philadelphia: Lea and Febiger.
- Lehrman, N. S., 1961, "Do Our Hospitals Help Make Acute Schizophrenia Chronic?" *Diseases of the Nervous System*, 22:1-5.
- Lelut, 1846, *L'Amulette de Pascal; pour servir a l'histoire des hallucinations*.
Quoted by Morgue, 1932.
- Lemere, F., 1936, "The Significance of Individual Differences in the Berger Rhythm." *Brain*, 59:366-375.
- Lemkau, P. V., and Crocetti, G. M., 1957, "Vital Statistics of Schizophrenia." In Beliak, L., *Schizophrenia, A Review of the Syndrome*. New York: Logos Press.
- Levin, M., 1932, "Auditory Hallucinations in 'Non-Psychotic' Children." *American Journal of Psychiatry*, 11:1119-1152.
- _____, 1938a, "Misunderstanding of the Pathogenesis of Schizophrenia, Arising from the Concept of 'Splitting,' " *American Journal of Psychiatry*, 94:877.
- _____, 1938b, "On the Causation of Mental Symptoms." *Journal Ment. Sci.*, 82.
- Levy, S., 1966, "The Hyperkinetic Child—A Forgotten Entity. Its Diagnosis and Treatment." *International Journal of Neuropsychiatry*, 2:330-336.
- Levy-Bruhl, L., 1910, *Les Fonctions mentales dans les societes inferieures*. Paris: Alcan.

____, 1922, *La Mentalite primitive*. Paris: Alcan.

Lewis, N. D. C., 1923, *The Constitutional Factors in Dementia Praecox*. New York and Washington: Nervous and Mental Disease Publishing Company.

____, 1925, "The Practical Value of Graphic Art in Personality Studies. 1) An Introductory Presentation of the Possibilities." *Psychoanalytic Review*, 12:316-322.

____, 1928, "Graphic Art Productions in Schizophrenia." *Proc. A. Research Nerv. & Ment. Dis.*, 5:344-368.

____, 1933, 1934, "Studies on Suicide." *Psychoanalytic Review*, 20:241, 21:146.

____, 1936, *Research in Dementia Praecox*. New York: The National Committee for Mental Hygiene.

____, 1944. Unpublished lecture, Inter-State Hospital Meeting, October 1944, New York.

Lidz, T., 1952, "Some Remarks Concerning the Differentiation of Organic from So-called 'Functional' Psychoses." In *The Biology of Mental Health and Disease*. New York: Hoeber.

____, 1969, "The Influence of Family Studies on the Treatment of Schizophrenia." *Psychiatry*, 32:237-251.

____, 1973, *The Origin and Treatment of Schizophrenic Disorders*. New York: Basic Books.

- Lidz, T., Comelison, A. R., Fleck, S., and Tenry, D., 1957a, "The Intrafamilial Environment of Schizophrenic Patients: II. Marital Schism and Marital Skew." *American Journal of Psychiatry*, 114:241.
- _____, 1957b, "The Intrafamilial Environment of the Schizophrenic Patient: The Father." *Psychiatry*, 20:329.
- Lidz, T., Comelison, A., Terry, D., and Fleck, S., 1958, "Intrafamilial Environment of the Schizophrenic Patient: The Transmission of Irrationality." *A.M.A. Archives of Neurology and Psychiatry*, 79:305.
- Lidz, T., and Fleck, S., 1964, "Family Studies and a Theory of Schizophrenia." Paper presented at 1964 Annual Meeting of American Psychiatric Association. Reprinted in Lidz, Fleck, and Comelison, 1965.
- Lidz, T., Fleck, S., and Comelison, A. R., 1965, *Schizophrenia and the Family*, New York: International Universities Press.
- Lidz, R. W., and Lidz, T., 1952, "Therapeutic Considerations Arising from the Intense Symbiotic Needs of Schizophrenic Patients." In Brody and Redlick, *Psychotherapy with Schizophrenics*. New York: International Universities Press.
- Lidz, T., Parker, B., and Comelison, A. R., "The Role of the Father in the Family Environment of the Schizophrenic Patient." *American Journal of Psychiatry*, 113:126.
- Liebert, R. S., Wapner, S., and Werner, H., 1957, "Studies in the Effects of Lysergic Acid Diethylamide (LSD-25). Visual Perception of Verticality in Schizophrenic and Normal Adults." *Arch. Neurol. Psychiat.*, 77:193-201.

Lief, A., 1948, *The Commonsense Psychiatry of Dr. Adolf Meyer. Fifty-Two Selected Papers*. New York: McGraw-Hill.

Lief, H. I., 1957, "The Effects of Taraxein on a Patient in Analysis." *Archives of Neurology and Psychiatry*, 78:624-627.

Lilly, J. C., 1956, "Mental Effects of Reduction of Ordinary Levels of Physical Stimuli on Intact, Healthy Persons." *Psychiat. Res. Rep.*, 5:1-28.

Limentani, D., 1956, "Symbiotic Identification in Schizophrenia." *Psychiatry*, 19:231-236.

Lindgarde, B., 1953, *Variations in Human Body Build*. Copenhagen: Ejnar Munksgard.

Lindstrom, P. A., 1954, "Prefrontal Ultrasonic Irradiation—A Substitute for Lobotomy." *Archives of Neurology and Psychiatry*, 72:399.

Linn, L., 1955, *A Handbook of Hospital Psychiatry*. New York: International Universities Press.

____, 1959, "Hospital Psychiatry." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 2, pp. 1829-1839. New York: Basic Books.

____(ed.), 1961, *Frontiers in General Hospital Psychiatry*. New York: International Universities Press.

Livingston, P. B., and Blum, R. A., 1968, "Attention and Speech in Acute Schizophrenia." *Archives of General Psychiatry*, 18:373-381.

Livingston, R. B., 1955, "Some Brain Stem Mechanisms Relating to

Psychosomatic Medicine." *Psychosomatic Medicine*, 17:347.

____, 1962, "How Man Looks at His Own Brain: An Adventure Shared by Psychology and Neurophysiology." In Koch, S. (ed.), *Psychology: A Study of a Science*. Study II, vol. 4, pp. 51-99. New York: McGraw-Hill.

Locke, B. Z., Kramer, M., and Pasamanick, B., 1960, "Immigration and Insanity." *Public Health Report*, 75:301-306.

Loeb, C., and Giberti, F., 1957, "Considerazioni cliniche ed elettroencefalografiche a proposito di sindromi psicosiche in soggetti epilettici." *Sist. Nerv.*, 9:219-229.

Lombroso, C., 1880, "On the Art of the Insane." Later (1888) included as Chapter 2 of *The Man of Genius*. English edition, London: Scott, 1895.

Lorraine, S., 1972, "The Therapeutic Assistant in Treating the Psychotic Case Report." *International Journal of Psychiatry*, 10:11—22.

Lovegrove, T. D., and Nicholls, D. M., 1965, "Haptoglobin Subtypes in a Schizophrenic and Control Population." *Journal of Nervous and Mental Disease*, 141:195.

Lu, Y., 1961, "Mother-Child Role Relations in Schizophrenia." *Psychiatry*, 24:133-142.

Ludwig, A. M., 1968, "The Influence of Nonspecific Healing Techniques with Chronic Schizophrenics." *American Journal of Psychotherapy*, 22:382-404.

- ____, 1970, "Chronic Schizophrenia: Clinical and Therapeutic Issues." *American Journal of Psychotherapy*, 24:380-399.
- ____, 1973, "New Treatment Methods for Chronic Schizophrenics." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 2, pp. 232-245. New York: Basic Books.
- Ludwig, A. M., and Farrelly, F., 1966, "The Code of Chronicity." *Archives of General Psychiatry*, 15:562-568.
- Ludwig, A. M., and Marx, A. J., 1968, "Influencing Techniques on Chronic Schizophrenics." *Archives of General Psychiatry*, 18:681-688.
- ____, 1969, "The Buddy Treatment Model for Chronic Schizophrenics." *Journal of Nervous and Mental Disease*, 148:528-541.
- Ludwig, A. M., Marx, A. J., Hill, P. A., and Hermsmeier, G. I. 1967, "Forced Small Group Responsibility in the Treatment of Chronic Schizophrenics." *Psychiatric Quarterly Supplement*, 41:262-280.
- Lukianowicz, N., 1958, "Autoscopic Phenomena." *A.M.A. Arch. Neurol. & Psychiatry*, 80:199.
- ____, 1967, "Body Image Disturbances in Psychiatric Disorders." *British Journal of Psychiatry*, 113:31-47.
- Lystad, M. H., 1957, "Social Mobility among Selected Groups of Schizophrenic Patients." *American Sociological Review*, 22:288-292.
- Maccagnani, G., 1958, "L'Arte psicopatologica." *Rivista Sperimentale di Freniatria*, vol. 82, supplement to No. 2:3-126.

- MacCurdy, G. G., 1926, *Human Origins. A Manual of Prehistory*. New York: Appleton.
- Mackay, R. P., 1954, "Toward a Neurology of Behavior." *Neurology*, 4:894.
- MacLean, P. D., 1949, "Psychosomatic Disease and the 'Visceral Brain.' Recent Developments Bearing on the Papez Theory of Emotion." *Psychosomatic Medicine*, 11:338.
- Macmillan, D., 1958, "Hospital-Community Relationships." In *An Approach to the Prevention of Disability from Chronic Psychoses*. New York: Milbank Memorial Fund.
- MacNab, F. A., 1966, *Estrangement and Relationship. Experience with Schizophrenics*. Bloomington, Ind.: University Press.
- Mahler, M. S., 1952, "On Child Psychosis and Schizophrenia: Autistic and Symbiotic Infantile Psychoses." In *The Psychoanalytic Study of the Child*, vol. 7, pp. 286-305. New York: International Universities Press.
- _____, 1958, "Autism and Symbiosis: Two Extreme Disturbances of Identity." *International Journal of Psycho-Analysis*, 39:77-83.
- _____, 1968, *On Human Symbiosis and the Vicissitudes of Individuation. Vol. I, Infantile Psychosis*. New York: International Universities Press.
- Mahler, M. S., Furer, M., and Settlage, C. F., 1959, "Severe Emotional Disturbances in Childhood: Psychosis." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 1, pp. 816-839. New York: Basic Books.

- Mahler, M., Ross, J. R., Jr., De Fries, Z., 1949, "Clinical Studies in Benign and Malignant Cases of Childhood Psychosis (Schizophrenic-like)." *American Journal of Orthopsychiatry*, 19:295-305.
- Malmo, R. B., 1942, "Interference Factors in Delayed Response in Monkeys after Removal of Frontal Lobes." *Journal of Neurophysiology*, 5:295.
- Malzberg, B., 1940, *Social and Biological Aspects of Mental Disease*. Utica, N.Y. State Hospitals Press.
- ____, 1956, "Mental Disease Among Puerto Ricans in New York City." *Journal of Nervous and Mental Disease*, 123:262-269.
- ____, 1959a, "Statistical Data for the Study of Mental Disease among Negroes in New York State." Albany Research Foundation for Mental Hygiene and New York State Department of Mental Hygiene.
- ____, 1959b, "Important Statistical Data About Mental Illness." In Arieti, S. (ed.), *American Handbook of Psychiatry*, First Edition, vol. 1, pp. 161-174. New York: Basic Books.
- ____, 1962, "Migration and Mental Disease among the White Population of New York State: 1949-1951." *Hum. Bio.*, 34:89-98.
- Mann, J., Menzer, D., Standish, C., 1950, "Psychotherapy of Psychoses: Some Attitudes in the Therapist Influencing the Course of Treatment." *Psychiatry*, 13:17-23.
- Maricq, H. R., 1963, "Familial Schizophrenia as Defined by Nailfold Capillary Pattern and Selected Psychiatric Traits." *Journal of Nervous and Mental Disease*, 136:216-226.

- ____, 1966, "Capillary Morphology and the Course of Illness in Schizophrenic Patients." *Journal of Nervous and Mental Disease*, 142:63-71.
- Marram, G. D., 1970, "Problems in the After Care Management of the Schizophrenic Patient." *Journal of Psychiatric Nursing*, 8:13-16.
- Mars, L., 1955, *Im Crise de possession*. Port-au-Prince: Imprimerie de L'Etat.
- Masserman, J., 1943, "Experimental Neuroses and Psychotherapy." *Archives of Neurology and Psychiatry*, 49:43-48.
- Matte-Blanco, I., 1959, "Expression in Symbolic Logic of the Characteristics of the System UCS." *International Journal of Psychoanalysis*, 40:1-5.
- ____, 1965, "A Study of Schizophrenic Thinking: Its Expression in Terms of Symbolic Logic and Its Representation in Terms of Multi-dimensional Space." *International Journal of Psychiatry*, 1:19-26.
- May, M. R. A., 1968, *Treatment of Schizophrenia. A Comparative Study of Five Treatment Methods*. New York: Science House.
- May, R., 1969, *Love and Will*. New York: Norton.
- Mayer-Gross, W., 1950, "Psychopathology of Delusions. History, Classification and Present State of the Problem from the Clinical Point of View." In Morel, *Psychopathologie des Delires*. Paris: Hermann.
- McFarland, R. A., 1932, "The Psychological Effects of Oxygen Deprivation (Anoxemia) on Human Behavior." *Arch. Psychol.*, Monograph 145.
- McFarland, R. A., and Goldstein, H., 1938, "Biochemistry: Review." *American*

Journal of Psychiatry, 95:509.

McGeer, P. L., McNair, F. E., McGeer, E. G., and Gibson, W. C., 1957, "Aromatic Metabolism in Schizophrenia. 1) Statistical Evidence for Aromaturia. 2) Bidimensional Urinary Chromatograms." *Journal of Nervous and Mental Disease*, 125:166.

McGhie, A., 1966, "Psychological Studies of Schizophrenia." In Freeman, T. (ed.), *Studies in Psychosis*. New York: International Universities Press.

_____, 1972, "Attention and Perception in Schizophrenia." In Cancro, R. (ed.), *Annual Review of the Schizophrenic Syndrome*, vol. 2, pp. 99-134. New York: Brunner-Mazel.

McGhie, A., and Chapman, J., 1961, "Disorder of Attention and Perception in Early Schizophrenia." *British Journal of Medical Psychology*, 34:103-116.

Mead, G. H., 1934, *Mind, Self and Society*. Chicago: University of Chicago Press.

Mead, M., 1958, "Cultural Determinants of Behavior." In Roe, A., and Simpson, G. G. (eds.), *Behavior and Evolution*. New Haven, Conn.: Yale University Press.

Mednick, S. A., 1958, "A Learning Theory Approach to Research in Schizophrenia." *Psychological Bulletin*, 55:316-327.

Mednick, S. A., and Freedman, J. L., 1960, "Stimulus Generalization." *Psychological Bulletin*, 57:169-200.

- Meehl, P. E., 1962, "Schizotaxia, Schizotypy, Schizophrenia." *American Psychologist*, 17:827-828.
- Meerloo, J. A., 1954, *The Two Faces of Man*. New York: International Universities Press.
- Menninger, K., and Mayman, M., 1956, "Episodic Dyscontrol: A Third Order of Stress Adaptation." *Bulletin of the Menninger Clinic*, 20:153.
- Menninger, K. (with Mayman, M., and Pruyser, P.), 1963, *The Vital Balance: The Life Process in Mental Health and Illness*. New York: Viking Press.
- Meth, J. M., 1974, "Exotic Syndromes." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 3. New York: Basic Books.
- Mettler, F. A., 1952, *Psychosurgical Problems*. Philadelphia: Blakiston.
- _____, 1955, "Perceptual Capacity, Functions of Corpus Striatum and Schizophrenia." *Psychiatric Quarterly*, 29:89-111.
- Meyer, A., 1906, "Fundamental Conceptions of Dementia Praecox." *British Medical Journal*, 2:757. Reprinted in Lief, 1948.
- _____, 1910, "The Dynamic Interpretation of Dementia Praecox." *American Journal of Psychology*, 21:385 (July 1910). Reprinted in Lief, 1948.
- _____, 1912a, *The Role of Habit-Disorganizations*. Paper read before the New York Psychiatric Society, Jan. 3, 1905; Nervous and Mental Disease Monograph Series No. 9. New York. Reprinted in Lief, 1948.

- ____, 1912b, *Substitutive Activity and Reaction-Types*. Nervous and Mental Disease Monograph Series No. 9. New York. Reprinted in Lief, 1948.
- Meyer, A., Jelliffe, S. E., and Hoch, A., 1911, *Dementia Praecox, A Monograph*. Boston: Badger.
- Meyer, Alfred, 1954, "Critical Evaluation of Histopathological Findings in Schizophrenia." In *Proceedings of the First International Congress of Neuropathology*. Turin: Rosenberg & Sellier.
- Meyer, J. E., and Feldman, H. (eds.), 1965, *Anorexia Nervosa*. Stuttgart: Thieme.
- Miller, J. B., and Sonnenberg, S. S., 1973, "Depression Following Psychotic Episodes: A Response to the Challenge or Change?" *Journal of the American Academy of Psychoanalysis*, 1:253-270.
- Minkowski, E., 1933, *Le Temps vecu*. Paris: d'Artrey.
- ____, 1953, *La Schizophrenic*. Paris: Desclée de Brouwer.
- ____, 1958, "Findings in a Case of Schizophrenic Depression." In May, R., Angel, E., and Ellenberger, H. F., *Existence*. New York: Basic Books.
- ____, 1966, *Traite de psychopathologie*. Paris: Presses Universitaires de France.
- Minski, L., 1937, "Note on Some Vasomotor Disturbances in Schizophrenia." *J. Ment. Sci.*, 83:434.
- Mishler, E., and Waxier, N. (eds.), 1968, *Family Processes and Schizophrenia*.

New York: Science House.

Mitscherlich, A., 1969, *Society without the Father. A Contribution to Social Psychology*. London: Tavistock.

Mitscherlich, M., and Mitscherlich, A., 1973, "Fathers and Fatherhood in Our Time." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*. New York: Basic Books.

Mohr, F., 1906-1907, "Über Zeichnungen von Geisteskranken und ihre Diagnostische Verwertbarkeit." *J. f. Psychol, u. Neurol.*, 8:99-140.

Money, J., and Hirsch, S. R., 1963, "Chromosome Anomalies, Mental Deficiency, and Schizophrenia." *Archives of General Psychiatry*, 8:242-251.

Moniz, E., 1936a, "Les Possibilities de le Chirurgie Dans le traitement de certaines psychoses." *Lisboa Med.*, 13:141.

_____, 1936b, *Tentatives Operations Dans le Traitement De Certaines Psychoses*. Paris: Masson.

Morgan, C. T., 1943, *Physiological Psychology*. New York and London: McGraw-Hill.

Morgenthaler, W., 1921, "Ein Geisteskranker als Kiinstler." *Arbeit, angew Psychiat.*, 1:1-126.

Morselli, G. E., 1955, "Ce qui Demeure et ce qui est perime dans la 'Schizophrenic' de Bleuler." *L' Evolution Psychiatrique*, 645-651.

Mott, F. W., 1919, "Normal and Morbid Conditions of the Testes from Birth to

Old Age in One Hundred Asylum and Hospital Cases." *British Medical Journal*, November 22, 29, and December 6.

Mourgue, R., 1932, *Neurobiologie de l'hallucination*. Brussels: Lamertin.

Mowrer, O. H., 1946, "An Experimental Analogue of 'Regression' with Incidental Observations of 'Reaction Formations.'" *Journal of Abnormal and Social Psychology*, 35:56.

Mullahy, P., 1948, *Oedipus. Myth and Complex*. New York: Hermitage Press.

_____, 1949, *A Study of Interpersonal Relations*. New York: Hermitage Press.

_____(ed.), 1952, *The Contributions of Harry Stack Sullivan*. New York: Hermitage House.

_____, 1967, "Harry Stack Sullivan's Theory of Schizophrenia." *International Journal of Psychiatry*, vol. 4, pp. 492-521.

_____, 1968, *Psychoanalysis and Interpersonal Psychiatry*. New York: Science House.

Muller, C., 1962. Personal communication.

_____, 1963, "Psychotherapy of Schizophrenic Patients." Lecture presented to Department of Psychiatry, New York Medical College.

Muller, J. M., Schlittler, E., and Bein, H. J., 1952, "Reserpine, der sedative Wirkstoff aus *Rauwolfia serpentina* Benth." *Experientia*, 8:338.

Murphy, H. B. M., Wittkower, E. D., Fried, J., and Ellenberger, 1963, "A Cross-

cultural Survey of Schizophrenic Symptomatology." *International Journal of Social Psychiatry*, 9:237-249.

Naumburg, M., 1950, *Schizophrenic Art: Its Meaning in Psychotherapy*. New York: Grune & Stratton.

Neale, J. M., and Cromwell, R. L., 1972, "Attention and Schizophrenia." In Cancro, R. (ed.), *Annual Review of the Schizophrenic Syndrome*, vol. 2, pp. 68-98. New York: Brunner-Mazel.

Nielsen, J. M., 1946, *Agnosia, Apraxia, Aphasia. Their Value in Cerebral Localization*. New York: Hoeber.

Niskanen, P., and Achte, K. A., 1971, "Prognosis in Schizophrenia. A Comparative Follow-up Study of First Admissions for Schizophrenic and Paranoid Psychoses in Helsinki in 1950, 1960, and 1965," *Psychiatria Fennica. Year Book 1971*, pp. 117-126.

Nivoli, G., 1973, *Le Schizophrene Meurtrier*. (In preparation. Private communication.)

Noble, D., 1951, "A Study of Dreams in Schizophrenia and Allied States." *American Journal of Psychiatry*, 107:612-616.

Noiris, V., 1959, *Mental Illness in London*. New York: Oxford University Press.

Nunberg, H., 1948, "The Course of the Libidinal Conflict in a Case of Schizophrenia." In *Practice and Theory of Psychoanalysis*, Nervous and Mental Disease Monograph Series No. 74. New York.

Ogden, C. K., and Richards, I. A., 1947, *The Meaning of Meaning*. New York:

Harcourt, Brace.

Orton, S. T., 1929, "The Three Levels of Cortical Elaboration in Relation to Certain Psychiatric Symptoms." *American Journal of Psychiatry*, 8:647.

Osmond, H., and Smythies, J., 1952, "Schizophrenia: A New Approach." *J. Ment. Sci.*, 98:309-315.

Pace, R. E., 1957, "Situational Therapy." *Journal of Personality*, 25:578-588.

Papez, J. W., 1937, "A Proposed Mechanism of Emotion." *Archives of Neurology and Psychiatry*, 38:725-743.

____, 1948, "Inclusion Bodies Associated with Destruction of Nerve Cells in Scrub Typhus, Psychoses and Multiple Sclerosis." *Journal of Nervous and Mental Disease*, 108:431.

Parsons, E. H., Gildea, E. F., Ronzoni, E., and Hulbert, S. Z., 1949, "Comparative Lymphocytic and Biochemical Responses of Patients with Schizophrenia and Affective Disorders to Electroshock, Insulin Shock, and Epinephrine." *American Journal of Psychiatry*, 105:573-580.

Pasamanick, B., 1962, "A Survey of Mental Disease in an Urban Population. VIII. An Approach to Total Prevalence by Race." *American Journal of Psychiatry*, 119:299-305.

____, 1964, "Myths regarding Prevalence of Mental Disease in the American Negro: A Century of Misuse of Mental Hospital Data and Some New Findings." *Journal Nat. Med. Assoc.*, 56:6-17.

- Pasamanick, B., Scarpitti, F. R., and Dinitz, S., 1967, *Schizophrenics in the Community*. New York: Appleton-Century-Crofts.
- Pastore, N., 1949, "Genetics of Schizophrenia: A Special Review." *Psychological Bulletin*, 46:285-302.
- Pavicevic, M. B., 1966, "Psychoses in Ethiopia." Addis Ababa, typescript, 6 pp. Reported in *Transcultural Psychiatric Research*, 3:152.
- Pavlov, I. P., 1919, "Psychiatry as Auxiliary Science of Physiology." *Russian Journal of Physiology*, 2:257. Printed in Russian.
- _____, 1930, "Digression of a Physiologist in the Field of Psychiatry." *Izvestija*, 122 (3969), May 5. Printed in Russian.
- _____, 1933a, "The 'Sentiments d'Emprise' and the Ultraparadoxal Phase." Open letter to Professor Pierre Janet. Last Communications on the Physiology and Pathology of the Superior Nervous Activity, 2:5-11. Leningrad. Printed in Russian.
- _____, 1933b, "Tentative of a Physiological Explanation of Obsessive Neuroses and Paranoia." Last Communications on the Physiology and Pathology of the Superior Nervous Activity, 2:13-24. Leningrad. Printed in Russian and reprinted in English, *Journal of Mental Science*, 80:187-197 (1934).
- Payne, R. W., 1958, "Some Aspects of Perception and Thought Disorder in Schizophrenic Subjects." *Swiss Rev. Psychol. Its Applic.*, 17:300.
- _____, 1961, "Cognitive Abnormalities." In Eysenck, H. J. (eA.), *Handbook of Abnormal Psychology*. New York: Basic Books.

- ____, 1962, "An Object Classification Test As a Measure of Overinclusive Thinking in Schizophrenic Patients." *British Journal Soc. Clin. Psychol.*, 1:213.
- Payne, R. W., Mattussek, P., and George, E. I., 1959, "An Experimental Study of Schizophrenic Thought Disorder." *Journal of Mental Science*, 105:627.
- Penfield, W., and Rasmussen, T., 1952, *The Cerebral Cortex of Man*. New York: Macmillan.
- Peplau, H. E., 1952, *Interpersonal Relations in Nursing*. New York: Putnam.
- ____, 1959, "Principles of Psychiatric Nursing." In Arieti, S. (ed.), *American Handbook of Psychiatry*, First Edition, vol. 2, pp. 1840-1856. New York: Basic Books.
- Persky, H., Gamm, S. R., and Grinker, R. R., 1952, "Correlation between Fluctuation of Free Anxiety and Quantity of Hippuric Acid Excretion." *Psychosomatic Medicine*, 14:34-40.
- Petiziol, A., and Sanmartino, L., 1969, *Iconografia ed espressivita' degli stati psicopatologici*. Milan: Feltrinelli.
- Petrella, F., 1968, "Implicazioni psico e sociodinamiche di una particolare condotta istituzionale: La Tendenza ad accumulare oggetti." *Rassegna di Studi Psichiatrici*, 57:767-785.
- Pfeifer, R. A., 1925, *Der Geisteskranke und sein Werk: Eine Studie iiber Schizophrene Kunst*. Leipzig: Kroner.

Pfister, O., 1923, *Expressionism in Art: Its Psychological and Biological Basis*. Translated by B. Low and M. A. Miigge. New York: Dutton.

Phillips, R. H., and Alkan, M., 1961a, "Some Aspects of Self-Mutilation in the General Population of a Large Psychiatric Hospital." *Psychiatric Quarterly*, 35:421-423.

_____, 1961b, "Recurrent Self-Mutilation." *Psychiatric Quarterly*, 35:424-431.

Piaget, J., 1929, *The Child's Conception of the World*. New York: Harcourt, Brace.

_____, 1930, *The Child's Conception of Physical Causality*. New York: Harcourt, Brace.

_____, 1948, *The Language and Thought of the Child*. London: Routledge & Kegan Paul.

_____, 1952, *The Origins of Intelligence in Children*. New York: International Universities Press.

Pincus, G., and Hoagland, H., 1950, "Adrenal Cortical Responses to Stress in Normal Men and in Those with Personality Disorders. Part I. Some Stress Responses in Normal and Psychotic Subjects. Part II. Analysis of the Pituitary-Adrenal Mechanism in Man." *American Journal of Psychiatry*, 106:641.

Piro, S., 1967, *Il Linguaggio schizofrenico*. Milan: Feltrinelli.

Plokker, J. H., 1964, *Art from the Mentally Disturbed*. London: Mouton.

- Polyakov, V. F., 1969, "The Experimental Investigation of Cognitive Functioning in Schizophrenia." In Cole, M., and Maltzman, I. (eds.), *A Handbook of Contemporary Soviet Psychology*. New York: Basic Books.
- Pollin, W., Allen, M. G., Hoffer, A., Stabenau, J. R., and Hrubec, Z., 1969, "Psychopathology in 15,909 Pairs of Veteran Twins: Evidence for a Genetic Factor in the Pathogenesis of Schizophrenia and Its Relative Absence in Psychoneurosis." *American Journal of Psychiatry*, 126:597-610.
- Popov, E., 1957, "Some General Problems in the Pathogenesis of Schizophrenia." In *Actual Problems of Neurology and Psychiatry*, 150-157. Printed in Russian.
- Potter, H. W., 1933, "Schizophrenia in Children." *American Journal of Psychiatry*, 12:1253-1270.
- Potzl, O., 1971, "Experimentell erregte Traumbilder in ihren Beziehungen zum indirekten Sehen." *Ztschr. f. Neurol, e Psychiat.*, 37:278-349.
- Potzl, O., Allers, R., and Teler, J., 1960, *Preconscious Stimulation in Dreams, Associations, and Images*. Psychological Issues, 11 (3). New York: International Universities Press.
- Powdermaker, F., 1952, "Concepts Found Useful in Treatment of Schizoid and Ambulatory Schizophrenic Patients." *Psychiatry*, 15:61.
- Prinzhom, F., 1922, *Bildneri der Geisteskranken*. Berlin: Springer.
- Pritchard, R. M., 1961, "Stabilized Images on the Retina." *Scientific American*,

204:72-78.

Pritchard, R. M., Heron, W., and Hebb, D. O., 1960, "Visual Perception Approached by the Method of Stabilized Images." *Canadian Journal of Psychology*, 14:67-77.

Protheroe, C., 1969, "Puerperal Psychoses: A Long-Term Study 1927-1961." *British Journal of Psychiatry*, 115:9-30.

Protopopov, V., 1938, "Physiopathologic Characteristics of the Activity of the Central Nervous System in Schizophrenia." *Works of Central Psychoneurologic Institute*, vol. 10, pp. 14-26. Printed in Russian.

Queen, S. A., 1940, "The Ecological Study of Mental Disorder." *American Sociological Review*, 5:201.

Rabiner, E. L., Molinsky, H., and Gralnick, A., 1962, "Conjoint Family Therapy in the Inpatient Setting." *American Journal of Psychotherapy*, 16:618-631.

Racamier, P. C., 1959, "Psychoanalytic Therapy of the Psychoses." In Nacht, S. (ed.), *Psychoanalysis Today*. New York: Grune & Stratton.

Rado, S., Buchenholz, B., Dunton, H, Karlen, S. H., and Senescu, R., 1956, "Schizotypal Organization. Preliminary Report on a Clinical Study of Schizophrenia." In Rado, S., and Daniel, G. E., 1956.

Rado, S., and Daniel, G. E., 1956, *Changing Concepts of Psychoanalytic Medicine*. New York: Grune.

Rainer, J. D., 1966, "New Topics in Psychiatric Genetics." In Arieti, S., (ed.),

American Handbook of Psychiatry, 1st ed., vol. 3. New York: Basic Books.

Rao,S., 1964, "Birth Order and Schizophrenia." *Journal of Nervous and Mental Disease*, 138:87-89.

Rapaport, D., 1951, *Organization and Pathology of Thought*. New York: Columbia University Press.

____, 1958, "The Theory of Ego Autonomy: A Generalization." *Bulletin of the Menninger Clinic*, 22:13.

____, 1960, *The Structure of Psychoanalytic Theory*. New York: International Universities Press.

Raphael, T., and Raphael, L. G., 1962, "Fingerprints in Schizophrenia." *American Medical Association Journal*, 180:215-219.

Raphael, T., and Shaw, M. W., 1963, "Chromosome Studies in Schizophrenia." *American Medical Association Journal*, 183:1022-1028.

Rausch,H.L., 1952, "Perceptual Constancy in Schizophrenia." *Journal of Personality*, 21:176-187.

____, 1956, "Object Constancy in Schizophrenia: The Enhancement of Symbolic Objects and Conceptual Stability." *Journal of Abnormal Social Psychology*, 52:231-234.

Rechtschaffen, A., Schulsinger, F., and Mednick, S. A., 1964, "Schizophrenia and Physiological Indices of Dreaming." *Archives of General Psychiatry*, 10:89-93.

- Reed, J. L., 1970, "Schizophrenic Thought Disorder: A Review and Hypothesis." *Comprehensive Psychiatry*, 11:403-432.
- Rees, L., 1957, "Physical Characteristics of the Schizophrenic Patient." In Richter, D., *Schizophrenia: Somatic Aspects*. New York: Macmillan.
- Reichard, S., and Tillman, C., 1950a, "Patterns of Parent-Child Relationships in Schizophrenia." *Psychiatry*, 13:247-257.
- _____, 1950b, "Murder and Suicide as Defenses against Schizophrenic Psychosis." *Journal of Clinical Psychopathology*, 11:149-163.
- Reitman, F., 1951, *Psychotic Art. A Study of the Art Products of the Mentally III*. New York: International Universities Press.
- _____, 1954, *Insanity, Art, and Culture*. New York: Philosophical Library.
- Relfer, M. I., and D'Autremont, C. C., 1971, "Catatonia-like Symptomatology." *Archives of General Psychiatry*, 24:119-120.
- Rennie, T. A. C., 1941, "Analysis of One Hundred Cases of Schizophrenia with Recovery." *Archives of Neurology and Psychiatry*, 46:197.
- Revitch, E., 1954, "The Problem of Conjugal Paranoia." *Diseases of the Nervous System*, 15:2-8.
- Revitch, E., and Hayden, J. W., 1960, "The Paranoid Marital Partner: Counselor's Client, Psychiatrist's Problem." *Rutgers Law Review*, 9:512-527.
- Rheingold, J. C., 1939, "Autonomic Integration in Schizophrenia; Autonomic

Status Determined Statistically, Thyroid Factor, and Possible Thyroid-hypothalamus Mechanisms." *Psychosomatic Medicine*, 1:397.

Ribot, T., 1899, *Les Maladies de la volonte*. Paris: Alcan.

Richardson, G. A., and Moore, R. A., 1963, "On the Manifest Dream in Schizophrenia." *Journal of the American Psychoanalytic Association*, 11:281-302.

Richter, D. (ed.), 1957, *Schizophrenia: Somatic Aspects*. New York: Macmillan.

Riesen, A. H., 1947, "The Development of Visual Perception in Man and Chimpanzee." *Science*, 106:107-108.

Riesman, D., Glaser, N., and Denney, R., 1950, *The Lonely Crowd*. New Haven: Yale University Press.

Rimland, B., 1964, *Infantile Autism*. New York: Appleton-Century-Crofts.

Rioch, D. McK., and Stanton, A. H., 1953, "Milieu Therapy." *Psychiatry*, 16:65-72.

Rioch, J., 1943, "The Transference Phenomenon in Psychoanalytic Therapy." *Psychiatry*, 6:147.

Ripley, H. A., and Papanicolaou, G. N., 1942, "Menstrual Cycle with Vaginal Smear Studies in Schizophrenia." *American Journal of Psychiatry*, 98:567-573.

Ritter, C., 1954, *A Woman in the Polar Night*. New York: Dutton.

- Robins, E., and Guze, S. B., 1970, "Establishment of Diagnostic Validity in Psychiatric Illness: Its Application to Schizophrenia." *American Journal of Psychiatry*, 126:983-987.
- Robins, E., Smith, K., and Lowe, I. P., 1957. In Abramson, H. A. (ed.), *Neuropharmacology*, pp. 123-136. Transactions of the Fourth Conference. New York: Josiah Macy, Jr., Foundation.
- Robinson, E. S., 1932, *Association Theory Today*. New York: Century.
- Rochlin, L., 1969, "La Concezione pavloviana della schizofrenia." In Pavlov, I. P., *Psicopatologia e Psichiatria*, edited by E. Popov and L. Rochlin. Rome: Editori Riuniti.
- Roi, G., 1953, "Analisi fenomenologica dell' assurdo schizofrenico nei rapporti col surreale dell' arte." *Archivio di Psicologia, Neurologia e Psichiatria*, 5:605-625.
- Roizin, L., 1938, "Organi di senso quali generatori di riflessi neuro-endocrino-vegetativi della regione diencefalo-ipofisaria." *Rassegna di Neurologia Vegetativa*, 1:338.
- _____, 1952, "Histopathology of Schizophrenia." In *Proceedings of the First International Congress of Neuropathology*. Turin: Rosenberg & Sellier.
- Rosanoff, A. J., Handy, L. M., Plesset, I. R., and Brush, S., 1934, "The Etiology of So-called Schizophrenic Psychoses with Special Reference to Their Occurrence in Twins." *American Journal of Psychiatry*, 91:247-286.
- Rosanoff, A. J., and Orr, I., 1911, "A Study of Heredity in Insanity in the Light of

Mendelian Theory." *American Journal of Insanity*, 63:221-261.

Rosanoff, A. J., and Rosanoff, I. A., 1931, "A Study of Mental Disorders in Twins." *J. Juv. Res.*, 15:268-270.

Rosen, J. N., 1947, "The Treatment of Schizophrenic Psychosis by Direct Analytic Therapy." *Psychiatric Quarterly*, 2:3.

_____, 1953, *Direct Analysis: Selected Papers*. New York: Grune & Stratton.

_____, 1962, *Direct Psychoanalytic Psychiatry*. New York: Grune & Stratton.

_____, 1963, "The Concept of Early Maternal Environment in Direct Psychoanalysis." Doylestown, Pa.: The Doylestown Foundation.

_____, 1964, "The Study of Direct Psychoanalysis." In Solomon, P., and Glueck, B. C. (eds.), *Recent Research on Schizophrenia*. Report 19, Psychiatric Research Reports of the American Psychiatric Association.

Rosenfeld, H. A., 1947, "Analysis of a Schizophrenic State with Depersonalization." *International Journal of Psycho-Analysis*, 28:130-139.

_____, 1952a, "Notes on the Psychoanalysis of the Superego Conflict of an Acute Schizophrenic Patient." *International Journal of Psycho-Analysis*, 33:111-131.

_____, 1952b, "Transference-phenomena and Transference-analysis in an Acute Catatonic Schizophrenic Patient." *International Journal of Psycho-Analysis*, 33:457-464.

____, 1954, "Considerations Regarding the Psycho-analytic Approach to Acute and Chronic Schizophrenia." In Rosenfeld, 1965.

____, 1965, *Psychotic States: A Psychoanalytic Approach*. New York: International Universities Press.

____, 1969a, "Contribution to the Psychopathology of Psychotic States: The Importance of Projective Identification in the Ego Structure and the Object Relations of the Psychotic Patient." In Doucet, P., and Laurin, C. (eds.), *Problematique de la Psychose*, vol. 1. Amsterdam: Excerpta Medica Foundation.

____, 1969 b, "On the Treatment of Psychotic States by Psychoanalysis: An Historical Approach." *International Journal of Psycho-Analysis*, 50:615-631.

Rosenthal, D., 1963, *The Genain Quadruplets*. New York: Basic Books.

____, 1974, "The Genetics of Schizophrenia." In Arieti, S. (ed.), *American Handbook of Psychiatry*, Second Edition, vol. 3. New York: Basic Books.

Roth, S., 1970, "The Seemingly Ubiquitous Depression Following Acute Schizophrenic Episodes, A Neglected Area of Clinical Discussion." *American Journal of Psychiatry*, 127:51-58.

Rubino, A., and Piro, S., 1959, "Il Mutamento pauroso e la schizofrenia." *II Pisani*, 83:527.

Riidin, E., 1961, *Zur Vererbung urtd Neuentehung der Dementia Praecox*. Berlin: Springer.

- Russell, B., 1919, *Introduction to Mathematical Philosophy*. London:
- Sakel, M., 1936, "Zur Methodik der hypoglykamiebehandlung von psychosen." *Wien. Klin. Wchnschr.*, 49:1278.
- Sakurai, T., Shirafuji, Y., Nishizono, M., Hasuzawa, T., Kusuhara, G., Yoshinaga, G., and Hirohashi, S., 1964, "Changing Clinical Picture of Schizophrenia." *Seishin Igaku*, 6:369-373. Reported in *Transcultural Psychiatric Research*, 2:97-98, 1965.
- Sanders, R., Smith, R. S., Weinman, B. S., 1967, *Chronic Psychoses and Recovery*. San Francisco: Jossey-Bass.
- Sanders, R. Weinman, B., Smith, R. S., Smith, A., Kenny, J., and Fitzgerald, B. J., 1962, "Social Treatment of the Male Chronic Mental Patient." *Journal of Nervous and Mental Disease*, 134:244-255.
- Sankar, Siva D. V., 1969, *Schizophrenia. Current Concepts and Research*. Hicksville, N.Y.: PJD Publications.
- Sankar, Siva D. V., and Saladino, C. F., 1969, "Chromosome Studies in Childhood Schizophrenia." *Schizophrenia*, 1:260-270.
- Sanseigne, A., and Desrosiers, M., 1961, "The Evaluation of Psychopharmaceuticals in an Underdeveloped Country." In Kline, N. S. (ed.), *Psychiatry in the Underdeveloped Countries*. Washington: American Psychiatric Association.
- Sanua, V. D., 1962, "Comparison of Jewish and Protestant Paranoid and Catatonic Patients." *Diseases of the Nervous System*, 26:1.

- Sartre, J.-P., 1969, *Being and Nothingness*. New York: Citadel Press.
- Sato, S., Daly, R., and Peters, H., 1971, "Reserpine Therapy of Phenothiazine-Induced Dyskinesia." *Diseases of the Nervous System*, 32:680-685.
- Schachtel, E. G., 1954, "The Development of Focal Attention and the Emergence of Reality." *Psychiatry*, 17:309.
- _____, 1959, *Metamorphosis*. New York: Basic Books.
- Schachter, F., 1962, "A Study of Psychoses in Female Immigrants." *Med. J. Australia*, 49(2):458—461.
- Schefflen, A. E., 1961, *A Psychotherapy of Schizophrenia: Direct Analysis*. Springfield, Ill.: Thomas.
- Schilder, P., 1918, *Wahn und Erkenntnis: eine psychologische Studie*. N. 15 Monog. Ges. Neurol. Psychiat. 1-115.
- _____, 1931, *Brain and Personality*. New York and Washington: Nervous and Mental Diseases Publication Company.
- _____, 1935, *The Image and the Appearance of the Human Body. Studies in the Constructive Energies of the Psyche*. London: Kegan Paul.
- _____, 1953, *Medical Psychology*. New York: International Universities Press.
- Schipkowensky, N., 1938, *Schizophrenic und Mord*. Berlin: Springer.
- _____, 1967, "Les Champs de force des homicides schizophréniques. " *L'Evolution Psychiatrique*, pp. 89-113.

- Schniewind, H. E., Day, M., and Semrad, E. V., 1969, "Group Psychotherapy of Schizophrenics." In Beliak, L., and Loeb, L., *The Schizophrenic Syndrome*. New York: Grune & Stratton.
- Schooler, C., 1961, "Birth Order and Schizophrenia." *Archives of General Psychiatry*, 4:91-97.
- Schroeder, C. W., 1942, "Mental Disorders in Cities." *American Journal of Sociology*, 48:40.
- Schwing, F., 1954, *A Way to the Soul of the Mentally III*. New York: International Universities Press.
- Scott, R. D., and Ashworth, P. L., 1969, "The Shadow of the Ancestor: A Historical Factor in the Transmission of Schizophrenia." *British Journal of Medical Psychology*, 42:13-32.
- Scoville, W. B., 1949, "Selective Cortical Undercutting." *Proceedings of the Royal Society of Medicine*, 47:3.
- Searles, H., 1958, "Positive Feelings in the Relationship Between the Schizophrenic and His Mother." *International Journal of Psychoanalysis*, 39:569-586.
- _____, 1959, "The Effort to Drive the Other Person Crazy—An Element in the Aetiology and Psychotherapy of Schizophrenia." *British Journal of Medical Psychology*, 32:1-18.
- _____, 1960, *The Nonhuman Environment in Normal Development and in Schizophrenia*. New York: International Universities Press.

- ____, 1962, "The Differentiation between Concrete and Metaphorical Thinking in the Recovering Schizophrenic." *J. American Psychoanal. Ass.*, 10:22-49.
- ____, 1965, *Collected Papers on Schizophrenia and Related Subjects*. New York: International Universities Press.
- Sechehaye, M. A., 1951a, *Symbolic Realization*. New York: International Universities Press.
- ____, 1951b, *Autobiography of a Schizophrenic Girl*. New York: Grune & Stratton.
- ____, 1956, *A New Psychotherapy in Schizophrenia*. New York: Grune & Stratton.
- Segal, H., 1950, "Some Aspects of the Analysis of a Schizophrenic." *International Journal of Psycho-Analysis*, 31:268-278.
- Seitz, P. F. D., 1951, "A Dynamic Factor Correlated with the Prognosis in Paranoid Schizophrenia." *Archives of Neurology and Psychiatry*, 65:604-606.
- Seitz, P. F. D., and Molholm, H. B., 1947, "Relations of Mental Imagery to Hallucinations." *Archives of Neurology and Psychiatry*, 57:469-480.
- Selvini Palazzoli, M., 1963, *L'Anoressia Mentale*. Milan: Feltrinelli.
- ____, 1970, "Anorexia Nervosa." In Arieti, S. (ed.), *The World Biennial of Psychiatry and Psychotherapy*, vol. 1, pp. 197-218. New York: Basic Books.

- Selye, H., 1950, "Stress (The Physiology and Pathology of Exposure to Systemic Stress)." Montreal: *Acta Med. Publ.*
- _____, 1952, "The Story of the Adaptation Syndrome," Montreal: *Acta Med. Publ.*
- Semrad, E. J., 1952, "Discussion of Dr. Frank's Paper." In Brody, E. B., and Redlich, F. C. (eds.), *Psychotherapy with Schizophrenics*. New York: International Universities Press.
- Semrad, E. J., Menzer, D., Mann, J., and Standish, C., 1952, "A Study of the Doctor-Patient Relationship in Psychotherapy of Psychotic Patients." *Psychiatry*, 15:377.
- Serieux and Capgras, J. Quoted by Mayer-Gross, 1950.
- Shainberg, D., 1973, *The Transforming Self. New Dimensions in Psychoanalytic Process*. New York: Intercontinental Medical Book Corporation.
- Shainess, N., 1966, "Psychological Problems Associated with Motherhood." In Arieti, S. (ed.), *American Handbook of Psychiatry*, vol. 3, p. 47. New York: Basic Books.
- Shakow, D., 1963, "Psychological Deficit in Schizophrenia." *Behavioral Science*, 8:275.
- Shattock, M. F., 1950, "The Somatic Manifestations of Schizophrenia. A Clinical Study of Their Significance." *Journal of Mental Science*, 96:32-142.
- Sheldon, W. H., Stevens, S. S., and Tucker, W. B., 1940, *The Varieties of Human Physique*. New York: Harper.

- Shenkin, H. A., and Lewey, F. H., 1944, "Taste Aura Preceding Convulsions in a Lesion of the Parietal Operculum." *Journal of Nervous and Mental Disease*, 100:352.
- Shulman, B. H., 1968, *Essays in Schizophrenia*. Baltimore: Williams and Wilkins.
- Siddiqui, S. S., and Siddiqui, R. H., 1931,7. *Ind. Chem. Soc.*, 8:667. Quoted by Muller, Schlitter, and Bein, 1952.
- Siirala, M., 1961, *Die Schizophrenie-des Einzelnen und der Allgemeinheit*. Gottingen: Vandenhoeck & Ruprecht.
- _____, 1963, "Schizophrenia: A Human Situation." *American Journal of Psychoanalysis*, 23:39.
- Silberer, H., 1909, "Report on a Method of Eliciting and Observing Certain Symbolic Hallucination-Phenomena." Reprinted in Rapaport, D. (ed.), *Organization and Pathology of Thought*. New York: Columbia University Press, 1951.
- _____, 1912, "On Symbol-Formation." Reprinted in Rapaport, D. (ed.), *Organization and Pathology of Thought*. New York: Columbia University Press, 1951.
- Silverman, J., 1964, "The Problem of Attention in Research and Theory in Schizophrenia." *Psychol. Rev.*, 71:352-379.
- _____, 1967, "Variations in Cognitive Control and Psychophysiological Defense in the Schizophrenias." *Psychosomatic Medicine*, 29:225-251.

- Simon, M., 1876, "L'Imagination dans la folie: fetude sur les dessins, plans, descriptions, et costumes des alienes." *Ann. Med.-Psychol.*, 16:358-390
- _____, 1888, "Les Ecrits et les Dessins des Alienés." *Arch. Anthropol. Crim.*, 3:318-355.
- Simpson, G. M., Cranswick, E. H., and Blair, J. H., 1963, "Thyroid Indices in Chronic Schizophrenia." *Journal of Nervous and Mental Disease*, 137:582-590.
- Singer, M. T., and Wynne, L. L., 1965, "Thought Disorder and Family Relations of Schizophrenics." *Archives of General Psychiatry*, 12:187-212.
- Slater, E., 1951, *An Investigation into Psychotic and Neurotic Twins*. London: University of London Press.
- _____, 1968, "A Review of Earlier Evidence on Genetic Factors in Schizophrenia." In Rosenthal, D., and Kety, S. S. (eds.), *The Transmission of Schizophrenia*. London: Pergamon Press.
- Slocum, J., 1901, *Sailing Alone Around the World*. New York: Dover, 1956.
- Small, J. G., and Small, I. F., 1965, "Reevaluation of Clinical EEG Findings in Schizophrenia." *Dis. Nerv. System*, 26:345-349.
- Smith, R. B., 1878, *The Aborigines of Victoria*. Quoted by Werner, 1957.
- Smith, S., 1954, "Problems of Liver Function in Schizophrenia." *Journal of Nervous and Mental Diseases*, 120:245-252.

- Smith, C. M., and McIntyre, S., 1963, "Family Size, Birth Rank, and Ordinal Position in Psychiatric Illness." *Canadian Psychiatric Association Journal*, 8:244-248.
- Smith, K., and Sines, J. O., 1960, "Demonstration of a Peculiar Odor in the Sweat of Schizophrenic Patients." *Archives of General Psychiatry*, 2:184-188.
- Soby, J. I., 1946, *Salvador Dali*. The Museum of Modern Art. Distributed by Simon and Schuster, New York.
- Spiegel, R., 1973, "Gray Areas Between the Schizophrenias and the Depressions." *Journal of the American Academy of Psychoanalysis*, 1:179-192.
- Spielmeier, W., 1931, "The Problem of the Anatomy of Schizophrenia." *Proceedings of the Association for Research in Nervous and Mental Disease*, 10:105. Baltimore: Williams and Wilkins.
- Spitz, R., 1945, "Diacritic and Coenesthetic Organization." *Psychoanal. Rev.*, 32:146.
- Stabenau, J. R., Pullin, W., Moshe, R. L. R., Froman, C., Friedhoff, A. J., and Turner, W., 1969, "Study of Monozygotic Twins Discordant for Schizophrenia. Some Biologic Variables." *Archives of General Psychiatry*, 20:145-158.
- Staercke, A., 1920, "The Reversal of the Libido Sign in Delusions of Persecutions." *International Journal of Psychoanalysis*, 1:120.
- Stanton, A. H., and Schwartz, M. S., 1949a, "The Management of a Type of

- Institutional Participation in Mental Illness." *Psychiatry*, 12:13.
- ____, 19496, "Observations on Dissociation as Social Participation." *Psychiatry*, 12:339.
- ____, 1954, *The Mental Hospital*. New York: Basic Books.
- Stein, W. J., 1967, "The Sense of Becoming Psychotic." *Psychiatry*, 30:262-275.
- Steinen, K., 1894, *Unter den Naturvdlkern Zentral-Brasiliens*. Quoted by Werner, 1957.
- Stern, E. S., 1937, "Acrocyanosis." *Journal of Mental Science*, 83:408.
- Stem, K., and MacNaughton, D., 1945, "Capgras Syndrome, a Peculiar Illusionary Phenomenon, Considered with Special Reference to the Rorschach Findings." *Psychiatric Quarterly*, 19:139.
- Stierlin, H., 1956, *Der gewalttdtige Patient*. Basel: Karger.
- ____, 1965, "Bleuler's Concept of Schizophrenia in the Light of Our Present Experience." In *International Symposium on the Psychotherapy of Schizophrenia*, pp. 42-55. New York and Basel: Karger.
- ____, 1967, "Bleuler's Concept of Schizophrenia: A Confusing Heritage." *American Journal of Psychiatry*, 123:996-1001.
- Storch, A., 1924, *The Primitive Archaic Forms of Inner Experiences and Thought in Schizophrenics*. New York and Washington: Nervous and Mental Disease Publication Company.

- Stransky, 1903, "Zur Kenntniss gewisser erworbener Blodsinnformen." *Jahrb. f. Psych.*, 24:1.
- Strauss, H., 1959, "Epileptic Disorders." In Arieti, S. (ed.), *American Handbook of Psychiatry*, 1st ed. vol. 2, pp. 1109-1143. New York: Basic Books.
- Strecker, E. A., and Ebaugh, F., 1926, "Psychoses Occurring during the Puerperium." *Archives of Neurology and Psychiatry*, 15:239.
- Stromgren, E., 1950, *Statistical and Genetical Population Studies with Psychiatry. Methods and Principal Results*, vol. 6. Paris: Hermann. Quoted by Kallmann, 1959.
- Sturm, I. E., 1965, "Overinclusion and Concreteness Among Pathological Groups." *Journal of Consulting Psychology*, 29:9-18.
- Sullivan, H. S., 1924, "Schizophrenia: Its Conservative and Malignant Factors." *American Journal of Psychiatry*, 81:77-91.
- _____, 1925, "Peculiarity of Thought in Schizophrenia" *American Journal of Psychiatry*, 5:21-86.
- _____, 1929, "Research in Schizophrenia." *American Journal of Psychiatry*, 9:553-567.
- _____, 1931, "The Modified Psychoanalytic Treatment of Schizophrenia." *American Journal of Psychiatry*, 11:519.
- _____, 1953a, *Conceptions of Modern Psychiatry*. New York: Norton.
- _____, 1953b, *The Interpersonal Theory of Psychiatry*. New York: Norton.

- ____, 1956, *Clinical Studies in Psychiatry*. New York: Norton.
- ____, 1962, *Schizophrenia As a Human Process*. New York: Norton.
- ____, 1964, *The Fusion of Psychiatry and Social Science*. New York: Norton.
- Suttie, I. E., 1952, *The Origins of Love and Hate*. New York: Julian Press.
- Suwa, N., and Yamashita, I., 1972, *Psychophysiological Studies of Emotion and Mental Disorders*. Sapporo, Japan: Hokkaido University.
- Swanson, D. W., Brown, E. M., and Beuret, L. J., 1969, "A Family with Five Schizophrenic Children." *Diseases of the Nervous System*, 30:189-193.
- Szalita, A. B., 1955, "The 'Intuitive Process' and Its Relation to Work with Schizophrenics." *Journal of the American Psychoanalytic Association*, 3:7.
- ____, 1958, "Regression and Perception in Psychotic States." *Psychiatry*, 21:53-63.
- Szasz, T., 1957a, *Pain and Pleasure*. New York: Basic Books.
- ____, 1957b, "The Psychology of Bodily Feelings in Schizophrenia." *Psychosomatic Medicine*, 19:11-16.
- ____, 1957c, "A Contribution to the Psychology of Schizophrenia." *A.M.A. Archives of Neurology and Psychiatry*, 77:420-436.
- ____, 1957d, "The Problem of Psychiatric Nosology: A Contribution to a

Situational Analysis of Psychiatric Operations." *Am. J. Psychiatry*, 114:405.

____. 1961, *The Myth of Mental Illness*. New York: Harper and Row.

Szurek, S. A., and Berlin, I. N. (eds.), 1973, *Clinical Studies in Childhood Psychoses*. New York: Brunner-Mazel.

Tanzi, E., 1909, *A Text-Book of Mental Diseases*. New York: Rebman.

Tedeschi, G., 1957, "Psicosi epilettica o schizofrenia in epilettico?" *Lav. Neuropsichiat.*, 21:35—48.

____, 1969, "Analytical Psychotherapy with Schizophrenic Patients." *Journal of Analytical Psychology*, 14:152-162.

Terzuolo, C. A., and Adey, W. R., 1960, "Sensorimotor Cortical Activities." In Field, J. (ed.), *Handbook of Physiology: Section I, Neurophysiology*, vol. 2, pp. 797-835. Washington: American Physiological Society.

Thom'a, H., 1967, *Anorexia Nervosa*. New York: International Universities Press.

Thompson, C., 1938, "Development of Awareness of Transference in a Markedly Detached Personality." *International Journal of Psychoanalysis*, 19:299.

____, 1941, "The Role of Women in This Culture." *Psychiatry*, 4:1.

____, 1942, "Cultural Pressures in the Psychology of Women." *Psychiatry*, 5:331.

- ____, 1950, *Psychoanalysis, Evolution and Development*. New York: Hermitage House.
- ____, 1952a, "Sullivan and Psychoanalysis." In Mullahy, P., *The Contributions of Harry Stack Sullivan*. New York: Hermitage House.
- ____, 1952b, "Counter-Transference." *Samiksa*, 6:205.
- Tienari, P., 1968, "Schizophrenia in Monozygotic Male Twins." In Rosenthal, D., and Kety, S., *The Transmission of Schizophrenia*, 1968. London: Pergamon Press.
- Tilney, F., 1928, *The Brain from Ape to Man*. New York: Hoeber.
- Tinbergen, N., 1951, *The Study of Instinct*. Oxford: Oxford University Press.
- Tjio, H., and Levan, A., 1956, "The Chromosome Number of Man." *Hereditas*, 42:1-6.
- Todd, J., 1957, "The Syndrome of Capgras." *Psychiatric Quarterly*, 31:250.
- Tolentino, I., 1957a, "Diario di un paranoico considerazioni psicopatologiche e psicodinamiche. 1) Il Diario." *Rassegna di Studi Psichiatrici*, 46:681-715.
- Tolentino, I., 1957b, "Diario di un Paranoico (1) Considerazioni, Psicopatologiche e Psicodinamiche (2) Considerazioni Psicopatologiche e Psicodinamiche." *Rassegna di Studi Psichiatrici*, 46:716-730.
- Tooth, G., 1950, *Studies in Mental Illness in the Gold Coast*. Research

Publication No. 6. London: H.M.S.O.

Tower, S. S., 1947, "Management of Paranoid Trends in Treatment of a Post-Psychotic Obsessional Condition." *Psychiatry*, 10:157.

Tyhurst, J. S., 1957, "Paranoid Patterns." In Leighton, A. H., Clausen, J. A., and Wilson, R. N., (eds.), *Explorations in Social Psychiatry*. New York: Basic Books.

Ungerleider, J. T., Fisher, D. D., Goldsmith, S. R., Fuller, M., and Forgy, E., 1968, "A Statistical Survey of Adverse Reactions to LSD in Los Angeles County." *American Journal of Psychiatry*, 125:352-357.

Vaillant, G. E., 1967, "The Prediction of Recovery in Schizophrenia." In *Current Issues in Psychiatry*, vol. 2. New York: Science House.

Vetter, H. J., 1968, "New-Word Coinage in the Psychopathological Context." *Psychiatric Quarterly*, 42:298-312.

Vico, G., 1725, *Principi di Una Scienza Nuova*. Naples.

Vinchon, J., 1926, "Essai d'analyse des tendances de l'art chez les fous." *L'Amour de l'Art*, 7:246-248.

_____, 1950, *L'Art et la Folie*. Paris: Stock.

Vogt, C., and Vogt, O., 1954, "Alterations anatomiques de la schizophrénie et d'autres psychoses dites fonctionnelles." In *Proceedings of the First International Congress of Neuropathology*. Turin: Rosenberg & Sellier.

Volmat, R., 1955, *L'Art Psychopathologique*. Paris: Presses Universitaires de France.

Von Domarus, E., 1925, "Über die Beziehung des Normalen zum Schizophrenen Denken." *Arch. Psychiat.*, 74:641.

____, 1944, "The Specific Laws of Logic in Schizophrenia." In Kasanin, J. S. (ed.), *Language and Thought in Schizophrenia: Collected Papers*, pp. 104-114. Berkeley: University of California Press.

Von Meduna, L., 1937, *Die Konvulsionstherapie der Schizophrenie*. Halle: Marhold.

Von Monakow, C. V., 1914, *Die Lokalisation in Grosshirn und der Abbau der Functionen durch Korticale*. Wiesbaden, Herde: Bergmann.

Von Monakow, C. V., and Mourgue, R., 1928, *Introduction biologique a Vetude de la neurologie et de la psychopathologie*. Paris: Alcan.

Von Senden, M., 1960, *Space and Sight. The Perception of Space and Shape in Congenitally Blind Patients Before and After Operation*. London: Methuen.

Vygotsky, L. S., 1934, "Thought in Schizophrenia." *Archives of Neurology and Psychiatry*, 31:1036.

____, 1962, *Thought and Language*. Cambridge, Mass.: M.I.T. Press.

Waelder, R., 1925, "The Psychoses: Their Mechanisms and Accessibility to Influence." *International Journal of Psychoanalysis*, 6:259-281.

- Wainwright, W. H., 1966, "Fatherhood as a Precipitant of Mental Illness." *American Journal of Psychiatry*, 123:40-44.
- Wallace, M., 1956, "Future Time Perspective in Schizophrenia." *Journal of Abnormal Social Psychology*, 52:240-245.
- Walter, W. G., 1942, "Electro-Encephalography in Cases of Mental Disorder." *Journal of Mental Science*, 88:110.
- Waring, M., and Ricks, D., 1965, "Family Patterns of Children Who Became Adult Schizophrenics." *Journal of Nervous and Mental Disease*, 140:351-364.
- Wames, H., 1968, "Suicide in Schizophrenics." In *Toward a Definition of Schizophrenia*, Supplement to Diseases of the Nervous System, 29 (5).
- Watzlawick, P., 1963, "A Review of the Double Bind Theory." *Family Process*, 2:132-153.
- Weckowicz, T. E., 1957, "Size Constancy in Schizophrenic Patients." *Journal of Mental Science*, 103:432.
- _____, 1960, "Perception of Hidden Pictures by Schizophrenic Patients." *Archives of General Psychiatry*, 2:521-527.
- Weckowicz, T. E., and Blewett, D. B., 1959, "Size Constancy and Abstract Thinking in Schizophrenic Patients," *Journal of Mental Science*, 105:909.
- Weckowicz, T. E., and Sommer, R., 1960, "Body Image and Self-Concept in

Schizophrenia." *Journal of Mental Science*, 106:17-39.

Weckowicz, T. E., Sommer, R., and Hall, R., 1958, "Distance Constancy in Schizophrenic Patients." *Journal of Mental Science*, 104:436.

Weil-Malherbe, H., and Szara, S. I., 1971, *The Biochemistry of Functional and Experimental Psychoses*. Springfield, 111.: Thomas.

Weil, A., Liebert, E., and Heilbrunn, G., 1938, "Histopathologic Changes in the Brain in Experimental Hyperinsulinism." *Archives of Neurology and Psychiatry*, 39:467.

Weiner, I. B., 1966, *Psychodiagnosis in Schizophrenia*. New York: Wiley.

Weinstein, M. R., 1954, "Histopathological Changes in the Brain in Schizophrenia." *Archives of Neurology and Psychiatry*, 71:539-553.

Werner, H., 1956, "Microgenesis and Aphasia." *Journal of Abnormal Social Psychology*, 52:347-353.

____, 1957, *Comparative Psychology of Mental Development*. New York: International Universities Press.

Werner, H., and Kaplan, B., 1963, *Symbol Formation: An Organismic-Developmental Approach to Language and the Expression of Thought*. New York: Wiley.

Werry, J. S., 1968, "Studies on the Hyperactive Child. An Empirical Analysis of the Minimal Brain Dysfunction Syndrome." *Archives of General Psychiatry*, 19:9—16.

- Wertham, F., 1937, "The Catathymic Crisis." *Archives of Neurology and Psychiatry*, 37:974.
- Wertheimer, N., and Wertheimer, M., 1955, "Capillary Structure: Its Relation to Psychiatric Diagnosis and Morphology." *Journal of Nervous and Mental Disease*, 122:14-27.
- West, L. J. (ed.), 1962a, *Hallucinations*. New York: Grune & Stratton.
- _____, 1962b, "A General Theory of Hallucinations and Dreams." In West, 1962a.
- Wexler, M., 1952, "The Structural Problem in Schizophrenia: The Role of the Internal Object." In Brody, M. W., and Redlich, F. C., *Psychotherapy with Schizophrenics*. New York: International Universities Press.
- Weygandt, W. 1902, *Atlas und Grundriss der Psychiatrie*. Lehmanns Atlantin. Quoted by Bleuler, 1950.
- White, M. J., 1952, "Discussion of Paper by Semrad, Menzer, Mann, and Standish." *Psychiatry*, 15:384-385.
- Will, O. A., 1967, "Schizophrenia: Psychological Treatment." In Freedman, A. M., and Kaplan, H. I., *Comprehensive Textbook of Psychiatry*. Baltimore: Williams and Wilkins.
- _____, 1970, "The Psychotherapeutic Center and Schizophrenia." In Cancro, B. (ed.), *The Schizophrenic Reactions*. New York: Brunner-Mazel.
- _____. 1972, "Catatonic Behavior in Schizophrenia." *Contemporary Psychoanalysis*, 9:29-58.

- Wilson, G. C., 1968, "Suicide in Psychiatric Patients Who Have Received Hospital Treatment." *American Journal of Psychiatry*, 125:752-757.
- Wing, J. K., 1967, "Social Treatment, Rehabilitation and Management." In Copper, A., and Wall, A., *Recent Developments in Schizophrenia*. Ashford: Headley.
- Wing, J. K., and Brown, G. W., 1961, "Social Treatment of Chronic Schizophrenia: A Comparative Survey of Three Mental Hospitals." *The Journal of Mental Science*, 107:847-861.
- Winkelman, N. W., 1952, "Histopathology of Mental Disease." In *The Biology of Mental Health and Disease*. New York: Hoeber.
- Winkelman, N. W., and Moore, M. T., 1944, "Neurohistological Findings in Experimental Electric Shock Treatment." *Journal of Neuropathology and Experimental Neurology*, 3:199.
- Winnicott, D. W., 1945, "Primitive Emotional Development." In Winnicott, D. W., *Collected Papers*. London: Tavistock, 1958.
- Witenberg, E. G., 1974, "The Interpersonal and Cultural Approaches." In Arieti, S. (ed.), *American Handbook of Psychiatry*, Second Edition, vol. 1. New York: Basic Books.
- Witte, F., 1922, "Über Anatomische Untersuchungen der Schilddrüse bei der Dementia Praecox." *Ztschr.f. d. ges. Neurol, u. Psychiat.*, 80:1901.
- Wolf, A., and Cowen, D., 1952, "Histopathology of Schizophrenia and Other Psychoses of Unknown Origin." In *The Biology of Mental Health and Disease*. New York: Hoeber.

- Wolman, B. B., 1966, *Vectoriasis Praecox or the Group of Schizophrenia*. Springfield, Ill.: Thomas.
- Woolley, D. W., and Shaw, E., 1954, "A Biochemical and Pharmacological Suggestion about Certain Mental Disorders." *Science*, 119:587-588.
- Wynne, L. C., Ryckoff, I. M., Day, J., and Hirsch, S., 1958, "Pseudomutuality in the Family Relations of Schizophrenics." *Psychiatry*, 21:205-220.
- Wynne, L. C., and Singer, M. T., 1963, "Thought Disorder and Family Relations of Schizophrenics. A Research Strategy. II. A Classification of Forms of Thinking." *Archives of General Psychiatry*, 9:191-206.
- Yap, P. M., 1952, "The Latah Reaction: Its Pathodynamics and Nosological Position." *Journal of Mental Science*, 98:515.
- Yerkes, R. M., 1934, "Modes of Behavioral Adaptation in Chimpanzees to Multiple Choice Problems." *Comp. Psychol. Mono.*, 10.
- Yerkes, R. M., 1943, *Chimpanzees. A Laboratory Colony*. New Haven, Conn.: Yale University Press.
- Yolles, S. F., and Kramer, M., 1969, "Vital Statistics." In Beliak, L., and Loeb, L., *The Schizophrenic Syndrome*. New York: Grune & Stratton.
- Zee, N. R., 1965, "Pseudoschizophrenic Syndrome." *Psychiat. et Neurol.*, 149:197-209.
- Zeigamik, B., 1965, *The Pathology of Thinking*. New York: Consultants Bureau Enterprises.

- Ziferstein, I., 1967, "Psychological Habituation to War: A Sociopsychological Case Study." *American Journal of Orthopsychiatry*, April.
- Zilboorg, G., 1928, "Malignant Psychoses Related to Childbirth." *American Journal of Obstetrics and Gynecology*, 15:145—158.
- ____, 1929, "The Dynamics of Schizophrenic Reactions Related to Pregnancy and Childbirth." *American Journal of Psychiatry*, 8:733-767.
- ____, 1941, *A History of Medical Psychology*. New York: Norton.
- Zwerling, I., 1966, "The Psychiatric Day Hospital." In Arieti, S. (ed.), *American Handbook of Psychiatry*, 1st ed., vol. 3, pp. 563-576. New York: Basic Books.

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“The ‘Placing into Mouth’ and Coprophagic Habits.” *Journal of Nervous and Mental Disease*. Vol. 99, 1944, pp. 959-964.

“Primitive Habits in the Preterminal Stage of Schizophrenia.” *Journal of Nervous and Mental Disease*. Vol. 102, 1945, pp. 367-375.

“The Processes of Expectation and Anticipation.” *Journal of Nervous and Mental Disease*. Vol. 106, 1947, pp. 471-481.

“Autistic Thought. Its Formal Mechanisms and Its Relationship to Schizophrenia.” *Journal of Nervous and Mental Disease*. Vol. III, 1950, pp. 288-303.

“The Possibility of Psychosomatic Involvement of the Central Nervous System in Schizophrenia.” *Journal of Nervous and Mental Disease*, Vol. 123, 1956, pp. 324-333.

“Volition and Value: A Study Based on Catatonic Schizophrenia.”

Comprehensive Psychiatry, Vol. 2, 1961, pp. 74-82.

"Schizophrenic Thought." *American Journal of Psychotherapy*, Vol. XIII, 1959, pp. 537-552.

"Hallucinations, Delusions, and Ideas of Reference." *American Journal of Psychotherapy*, Vol. 16, 1962, pp. 52-60.

"The Schizophrenic Patient in Office Treatment." *Psychother. Schizophrenia*, 3rd International Symposium, Lausanne, Switzerland, 1964, pp. 7-23. (Karger)

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