THOMAS A. BAN: THE WERNICKE-KLEIST-LEONHARD TRADITION WITH SPECIAL REFERENCE TO MANIA, MELANCHOLIA AND MANIC-DEPRESSIVE PSYCHOSIS

Collated Document

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This document includes Thomas A. Ban’s five essays on the Wernicke-Kleist-Leonhard tradition with special reference to mania, melancholia and manic-depressive psychosis. It also includes Ernst Franzek’s comment and Ban’s reply to the last essay.

The document is now open for a final comment to all INHN members.

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Fundamentals of the Wernicke-Kleist-Leonhard Tradition

Thomas A Ban

In 1956, Fritz Freyhan, a German born American pioneer of neuropsychopharmacology focused attention on the heterogeneity in responsiveness to neuroleptics in patients with the diagnosis of schizophrenia and called for a pharmacological re-evaluation of Kraepelin’s diagnostic concepts (Bleuler 1911; Freyhan 1956; Kraepelin 1899). One year later, in 1957, Karl Leonhard, a German professor of psychiatry, presented his “classification of endogenous psychoses”, in which Kraepelin’s diagnoses, “dementia praecox” and “manic-depressive insanity” were split into several forms and sub-forms of diseases (Leonhard 1957).

In 1959, Christian Astrup, a Norwegian professor of psychiatry was first to report that patients with “slight paranoid defect” and ”periodic catatonia”, i.e., those with a diagnosis within the class of “unsystematic schizophrenias” in Leonhard’s classification, responded more favorably to “neuroleptics” than patients with “severe paranoid defects”, “hebephrenic defect”, and “systematic catatonia”, i.e., those with a diagnosis within the class of “systematic schizophrenias” (Astrup 1957; Ban 1990; Leonhard 1957). Astrup’s observations were further substantiated in the mid-1960’s by Frank Fish, a British professor of psychiatry, who found significant differences in responsiveness to neuroleptics in the different forms and sub-forms of schizophrenia (Fish 1964; see also Part 4).

In spite of Astrup’s observations and Fish’s findings, Leonhard’s classification remained unrecognised during the “neurotransmitter era”, the first epoch in the history of neuropsychopharmacology. Moreover, by the dawn of the 21st century, a whole tradition of psychiatry, the Wernicke-Kleist-Leonhard (WKL) tradition (of which Leonhard was the last prominent representative), has become a “forgotten language of psychiatry” (Ban 2013).
Outline of Development: From Griesinger to Wernicke

The roots of the WKL tradition are in the mid-19th century, in Wilhem Griesinger’s contributions (Griesinger 1845). Stimulated by Sir Charles Bell’s discovery and François Magendie’s recognition of the importance of the “reflex arc” that links sensory input with motor output in the functioning nervous system (spinal cord), Griesinger was first to perceive mental activity as “reflex” activity (Bell 1811; Magendie 1822). He was also first to describe, in 1843, “psychic reflex actions” (psychische Reflexactionen) (Griesinger 1823).

The role of the “reflex” in mental activity was further elaborated about 20 year later, in the 1860’s, by Ivan Mihailovich Sechenov, a Russian physiologist, while studying “nervous inhibition” in the central nervous system of the frog, in Claude Bernard’s laboratory in Paris. In his monograph, Reflexes of the Brain, Sechenov concludes that all activity in the brain, including the “psychological”, is reflex (activity) and as such follows fixed laws determinable by investigation (Sechenov 1863, 1935; Wells 1956).

The structural underpinning of “reflex” was established between the 1870’s and the early years of the 20th century by: Camillo Golgi (1874), an Italian histologist, who described with the employment of silver staining multi-polar (Golgi) cells in the “olfactory bulb”; Santiago Ramón y Cajal (1894), a Spanish histologist, who established that the “neuron” is the morphological and functional unit of the nervous system and Sir Charles Sherrington (1906), an English physiologist, who demonstrated that the “synapse” is the functional site of transmission from one neuron to another (Cajal 1894; Golgi 1874; Sherrington 190).

Griesinger’s notion that mental activity is reflex activity was adopted in the late 19th century by Carl Wernicke, the professor of neurology and psychiatry in Breslau (Germany at the time) (Wernicke 1899b). He classified “psychoses,” i.e., psychiatric diseases, on the basis of “hyper-functioning,” “hypo-functioning, or “para-functioning” in the “psycho-sensory”, “intra-psychic” and/or “psychomotor” components of the “reflex arc” and postulated that the substrate of mental pathology was in the “transcortical area” between the motor and sensory “projection fields” in the cerebral cortex (Franzek 1990; Wernicke 1881-3, 1889, 1900, 1906). Wernicke divided consciousness into consciousness of the body (somaatopsyche), consciousness of the self (autopsyche) and consciousness of the external word (allopsyche) and argued, in the 1890’s, that
mental pathology should be identified by “elementary symptom” (elementarsymptom) from which all other symptoms of the pathology were derived. Pursuing his approach, Wernicke identified clinical entities, such as “anxiety psychosis” and “hallucinosis” (Krahl 2000; Wernicke 1893, 1895).

Outline of Development: From Kraepelin through Kleist to Leonhard

Emil Kraepelin’s division (“dichotomy”) of the “endogenous psychoses towards the end of the 19th century, in the 6th edition of his textbook”, on the basis of “temporal characteristics”, i.e., “course” and “outcome, into “manic depressive insanity”, a disease that follows an episodic course with full remission between episodes, and “dementia praecox”, a disease that follows a continuous deteriorating course, distracted attention from Wernicke’s contributions (Kraepelin 1899). Thereafter, in the 1920’s, Kraepelin’s dichotomy of “endogenous psychoses” was re-evaluated by Karl Kleist (1921, 1923, 1928), a disciple of Wernicke, and subsequently by Karl Leonhard, a disciple of Kleist. (Kleist 1921, 1923, 1928; Leonhard 1936, 1957).

In his re-evaluation, Leonhard employed Edna Neele’s concept of “polarity” and Wernicke’s concept of “mental structure” in classifying patients (Neele 1948; Wernicke 1881, 1899). With the employment of “polarity”, he divided the population already separated by “course” and “outcome”, into “bipolar” and “unipolar diseases”, and separated within both, several subpopulations on the basis of the site of the dominant psychopathology, i.e., the afferent-cognitive (“psychosensory”), central-affective (“intrapsychic”), or efferent-motor (“psychomotor”) component, in Wernicke’s “mental structure” (Leonhard 1936, 1957, 1979, 1986).

In Leonhard’s classification, “bipolar diseases” are characterized by a continuously changing, “polymorph” (multiform), disease picture with a potential to display both extremes in mood, thinking, emotions and/or motility, whereas “unipolar (monopolar) diseases” are characterized by a consistent, unchanging, “monomorph” (simple, also referred to as pure) disease picture with no variation of mood, thinking, emotions and/or motility.

On the basis of “polarity”, Leonhard splits Kraepelin’s “dementia praecox” and Bleuler’s “schizophrenias”, into two classes of disease: “(bipolar) unsystematic (non-systematic) schizophrenias” and “(unipolar) systematic schizophrenias”; and on the basis of Wernicke’s
“mental structure”, he divides “unsystematic schizophrenias” into three diseases, i.e., “cataphasia”, “affect-laden paraphrenia” and “periodic catatonia” (Bleuler 1911). Similarly, on the basis of Wernicke’s “mental structure”, he divides the “systematic schizophrenias” into three groups of diseases, i.e., paraphrenias” (with six psychopathology-based sub-forms: hypochondriacal, phonemic, incoherent, fantastic, confabulatory and expansive), “hebephenrias” (with four psychopathology-based sub-forms: silly, eccentric, insipid or shallow and autistic), and “catatonias” (with six psychopathology-based sub-forms: parakinetic, affected or manneristic, proskinetic, negativistic, voluble or speech prompt and sluggish or speech inactive).

On the basis of “polarity”, Leonhard also splits Kraepelin’s “manic depressive insanity” into “(bipolar) manic depressive disease” and “(unipolar) phasic psychoses”, and with consideration of Wernicke’s “mental structure”, he separates from “manic depressive disease” the “cycloid psychoses”, and divides the “cycloid psychoses” into “excited-inhibited confusion psychosis”, “anxiety-happiness psychosis”, and “hyperkinetic-akinetic motility psychosis”. Furthermore, on the basis of “totality”, the organizing principle introduced by William Cullen, he separates “pure mania” and “pure melancholia” from the “pure euphorias” (unproductive, hypochondriacal, enthusiastic, confabulatory and non-participatory) and “pure depressions” (harried, hypochondriacal, self-torturing, suspicious and non-participatory), each displayed in five distinct psychopathology-based forms (Cullen 1769, 1772, 1776).

Within the “bipolar-polymorph” diseases, the signal difference between “manic depressive disease” and the “cycloid psychoses” is that in “manic depressive disease”, the “polarity” primarily is in mood, whereas in the “cycloid psychoses”, the “polarity” primarily is in thinking (“excited-inhibited confusion psychosis”), emotions (“anxiety-happiness psychosis”) or psychomotility (“hyperkinetic-akinetic motility psychosis”); and within the “unipolar-monomorph” diseases, the signal difference between “pure mania/melancholia” and the “pure euphorias/depressions” is that in “pure mania” and in “pure melancholia”, the entire “mental” structure is affected, whereas in the “pure euphorias” and “pure depressions” only parts of the mental structure is involved.

Leonhard’s classification of “endogenous psychoses” was first published in 1957, just about the time when neuropsychopharmacology was born (Ban 2013).

References:


Cullen W. First Lines of the Practice of Physics. Edinburgh: Kincaid & Creech; 1777.


Carl Wernicke’s classification of psychoses with special reference to mania and melancholia

Thomas A. Ban

Stimulated by Sir Charles Bell’s (1811) discovery and François Magendie’s (1822) recognition of the importance of the “reflex arc” that links sensory input with motor output in the functioning of the nervous system (spinal cord), Griesinger (1843) was first to perceive mental activity as “reflex” activity. He was also the first to describe, in 1843, “psychic reflex actions” (psychische Reflexactionen).

Carl Wernicke (1848-1905), the professor of neurology and psychiatry in Breslau, Germany (1890-1904), adopted Griesinger’s view that mental activity is “reflex” activity, and perceived “psychoses,” as “hypo (deficit)-functioning,” “hyper (excess)-functioning”, or “para (distorted)-functioning” of one or more components (paths, phases) of the “psychic reflex” (Ban 2013; Franzek 1990; Wernicke 2000). Accordingly, he attributed “psychoses” displayed by “anaesthesia”, “hyperaesthesia” or “paraesthesia” to malfunctioning of “psychosensory” brain areas; “psychoses” displayed by “afunction”, “hyperfunction” or “parafunction” to malfunctioning of “intrapsychic” (trans-cortical) brain areas, and “psychoses” displayed by “akinesia”, “hyperkinesia” or “parakinesia” to malfunctioning of “psychomotor” brain areas (Wernicke 1899).

Wernicke was operating within the frame of reference of contemporary “associationism”. He conceptualized the brain as an associative organ, consciousness as a product of associative activity and the “soul”, as the sum of all possible associations (Menninger, Mayman and Pruyser 1968). He divided consciousness into consciousness of the outside world (“allopsyche”), consciousness of one’s body (“somatopsyche”) and consciousness of one’s self-individuality (“autopsyche”) and classified psychoses into “allopsychoses”, characterized by disorientation in the representation of the outside world, “somatopsychose”, characterized by disorientation in the representation of one’s own body and “autopsychose”, characterized by disorientation in the representation of one’s own self-individuality. In diagnosing and classifying, Wernicke
employed his “elementary symptom” approach (Ban 2015; Krahl 1910; Wernicke 1893) and, in 1900, in his *Fundamentals (Grundriss) of Psychiatry*, he classified “delirium tremens”, “Korsakoff psychosis” and “presbyophrenia” as “allopsychoses”; “anxiety psychoses” and “hypochondriacal psychoses” as “somatopsychoses”; and “mania” and “melancholia” as “autopsychoses”.

In describing “mania”, Wernicke emphasized the presence of “ideas of grandeur”, and in describing “melancholia”, he emphasized “ideas of indignity”. He saw “manic” and “melancholic” psychoses as independent from each other, but recognized that they frequently occur in the same patient. He also noted that “mania” was “more recurrent” with “shortening intervals between episodes” than “melancholia”, and that the prognosis of ”mania” was worse than of “melancholia” (Angst and Grobler 2015; Menninger, Mayman and Puyser 1968; Wernicke1896).

**References**


Karl Kleist and the deconstruction of Kraepelin’s diagnostic concept of manic-depressive psychosis

Thomas A. Ban
Deconstruction of Kraepelin’s (1899, 1913) diagnostic concept of “manic depressive psychosis” began in 1911 by Karl Kleist, a former assistant to Wernicke during his short tenure, from 1904 to 1905, as professor of Neurology and Psychiatry in Halle, Germany.

In a paper published, in 1911, in the Zeitschrift für die Gesamte Neurologie and Psychiatrie, Kleist, challenged Kraepelin’s (1899) diagnostic concept of “manic-depressive insanity”, and argued for the independence of the “manic syndrome” from the “melancholic syndrome”. By using the terms “einpolig mania” that translates into English as “unipolar mania” and the term, “einpolig melancholia”, in reference to these distinct syndromes, Kleist (1911) set the stage for a development that led in the 1940’s to the “unipolar-bipolar dichotomy” of ”mood disorders” (Angst and Grobler 2015; Kleist 1943; Leonhard 1948). Subsequently, in the next three decades, Kleist referred to “unipolar mania” and “unipolar melancholia” as “pure mania” and “pure melancholia”, respectively, and to “bipolar (zweipolig) mania” and “bipolar (zweipolig) melancholia” as “ polymorphous mania” and “ polymorphous melancholia”.

It was also in his 1911 paper that Kleist (1911) described several syndromes, in which changes in “motility” were central (Shorter 2005). Included among them was the syndrome that was to become the diagnostic concept of “akinetic motility psychosis” and the syndrome that was to become the diagnostic concept of “hyperkinetic motility psychosis”. Recognition of the affinity of this pair of “motility syndromes” to each other, opened the path for the development of the diagnostic concept of “cycloid psychoses”, in the mid-1920’s (Kleist 1925).

The term “cycloid psychoses” was introduced by Kleist, in 1925, for a group of recurrent psychoses with full remission between episodes, which circled between two “poles”, as “manic-depressive psychosis” but in which the dominant psychopathology was not “elated” and “melancholic” mood, as in “manic-depressive insanity”, but in another area of mental pathology. He also referred to the same group of psychoses as “marginal psychoses” (Randpsychosen) or “marginal degeneration (constitutional) psychoses” as he perceived them as psychoses which are bordering on “manic-depressive insanity” (Kleist 1928; Teichmann 1990). By the time of the mid-1930’s, he recognized three “cycloid psychoses”: “anxiety-ecstatic delusional psychosis”, “excited-inhibited confusion psychosis” and “hyperkinetic-akinetic motility psychosis” (Funfgeld 1935).
The distinctiveness of the “cycloid psychoses”, “mania”, “melancholia” from each other and from “manic-depressive insanity” received support by the findings of Edda Neele, a student of Kleist. She evaluated all “phasic sicknesses” diagnosed at Kleist’s University Clinic in Frankfurt between 1938 and 1942 and presented the results of her “genetic study”, in 1949, in a monograph with the title Die phasischen Psychosen nach ihrem Erscheinungs und Erbbild (The Phasic Psychoses According to Presentation and Family History). It was in Neele’s monograph, in which the “phasic psychoses” were separated for the first time into “pure (unipolar) phasic psychoses”, that included “melancholia”, “anxious melancholia”, “anxious reference psychosis”, “hypochondriacal depression”, “depressive stupor”, mania”, “ecstatic inspiration psychosis” and “hypochondriacal excitement”, and “polymorphous (bipolar) phasic psychoses” that included “manic-depressive illness of affect”, “hyperkinetic-akinetic motility psychosis”, “excited-stuporous confusion psychosis” and “anxious-ecstatic delusional psychosis” (Angst and Grober 2015; Shorter 2005; Teichmann 1990). Her classification of “phasic psychoses” was endorsed by Kleist (1953).

References


Kleist K. Uber zykloide, paraonoide und epileptoide Psychosen und uber die Frage der Degenerationpsychosen. Schweiz Arch Neurol Neurochir Psychiat 1928; 23: 3-37


Karl Leonhard and the re-evaluation of Emil Kraepelin’s diagnostic concept of manic-depressive psychosis

Thomas A. Ban

The re-evaluation of Kraepelin’s diagnostic concept of “manic-depressive psychosis” culminated in 1957 with the publication of Karl Leonhard’s monograph, The Classification of Endogenous Psychoses. In his classification, Leonhard integrated the contributions of Wernicke, Kleist and his collaborators with his own findings and conceptualizations.

Leonhard began with his research in the late 1920’s, after graduating from medical school, in 1928. By 1936, the year he joined Karl Kleist’s Department of Psychiatry at Goethe University in Frankfurt, he had already published some findings in “episodic psychoses”, “atypical psychoses” and “defect schizophrenias” which were in line with Karl Kleist’s reports (Kleist 1911, 1923, 1925, 1928; Leonhard 1931, 1934, 1936).
During the Frankfurt years, Leonhard collaborated with Kleist and Edna Neele in studying “phasic psychoses”, i.e., “episodic psychoses” with full remissions between episodes, and was instrumental in the conceptualization of findings in this project. It was in the course of this research that Kleist’s (1928) introduced his original concept of “bipolarity”, a combination of two “unipolar” syndromes (“manic psychosis”, “melancholic psychosis”) and “polymorphous-bipolar psychoses” (“manic-depressive psychosis”) (Kleist 1943; Leonhard 1943). It was also in the course of this research that it was recognized that “polymorphous-bipolar psychosis” was not restricted to “manic-depressive illness of affect” but also included other “psychoses”, which were based on other “pairs of syndromes” like “manic-depressive psychosis” in which the “elementary symptom” was not in mood, but in other areas of psychopathology (Teichmann 1990). By the time of the 1940’s, several such ”psychoses” were described and referred to as “cycloid psychoses” by Kleist (Fünfgeld 1936; Kleist 1911, 1925, 1928, 1953; Leonhard 1939).

The currently used, Latin-derived terms, “unipolar” and “bipolar” were coined, in 1948, by Leonhard and the distinction between “unipolar depression” and “bipolar depression” in reference to “mood disorders” was supported by Neele’s “epidemiological genetic” findings reported in her monograph on “Phasic Psychoses”, in 1949 (Angst and Grobler 2015). It was also in Neele’s report, in which Kraepelin’s (1913) all embracing diagnostic concept of “manic-depressive psychosis” was deconstructed into various forms of “phasic psychoses”: “simple-unipolar” and “polymorphous-bipolar” (Teichmann 1990).

The concept of “polarity” became central, but not an exclusive organizing principle in Leonhard’s (1957) re-evaluation of Kraepelin’s (1913) “manic-depressive psychosis”. On the basis of “polarity”, he split it into “bipolar manic depressive disease” and “unipolar phasic psychoses”, and with consideration of Wernicke’s (1899, 1900) “mental structure”, he separated the “cycloid psychoses” from “manic depressive disease” and divided the “cycloid psychoses” into “excited-inhibited confusion psychosis”, “anxiety-happiness psychosis”, and “hyperkinetic-akinetic motility psychosis”. Then, on the basis of “totality”, the organizing principle introduced by William Cullen (1769, 1772, 1776), he separated “pure mania” and “pure melancholia”, both “universal” diseases, from the “pure euphorias” and “pure depressions”, in which the “mental structure” was only partially affected. Finally, on the basis of Wernicke’s (1893) “elementary symptoms”, he distinguished five distinct forms (unproductive, hypochondriacal, enthusiastic,
confabulatory and non-participatory) of “pure mania”, and five distinct forms (harried, hypochondriacal, self-torturing, suspicious and non-participatory) of “pure depression”.

In 1957, at the time it was first published, Leonhard’s classification had already some support, from epidemiological genetic findings, as indicated before (Neele 1949). Yet, it was only in 1964, one year before the publication of the third edition of the text, in 1965, that Leonhard succeeded to demonstrate that his diagnoses of “cycloid psychoses” were “catamnestically correct” (Leonhard and Trostorff 1964); and it was only, in 1966, two years before the publication of the fourth edition, in 1968, that Jules Angst (1966) and Carlo Perris (1966) independently demonstrated that “bipolar depression” and “unipolar depression” were “separable”. The signal difference between the two populations was that patients with “bipolar depression” had a significantly higher rate of “psychoses” among their relatives than patients with “unipolar depression”. The (epidemiological) genetic distinctiveness of “unipolar depression” and “bipolar depression” was further substantiated, in 1969, by Winokur, Clayton and Reich.

It was only well after the publication of the 6th edition of Leonhard’s monograph, in 1986, the last edition published during his life time, that findings relevant to the distinctiveness of “unipolar mania” and “bipolar mania” emerged. First, in three independent clinical epidemiological studies, it was found that “unipolar mania” had an earlier onset and was characterized by fewer episodes and lower comorbidity with anxiety disorders than “bipolar mania” (Merikangas et al 2012; Pacheco Palha and Arrojo 2009; Young, Marek and Patterson 2009). Then, Yazici and Cakir (2012) noted that patients with “unipolar mania” were less responsive to lithium therapy than patients with “bipolar mania”, and Grobler, Roos and Bekker (2014) reported that patients with “unipolar mania” were prescribed more “neuroleptics” than patients with “bipolar mania”. Finally, in an epidemiological genetic study, Merikangas and associates (2014) found the familial aggregation of depression in relatives of “depressed probands” much lower than the familial aggregation of mania in the relatives of “manic probands”, indicating the genetic independence of maia from depression that “unipolar mania” and “bipolar mania” are distinct diseases (Angst and Grobler 2015; Hicki 2014 ).

References:


Cullen W. First Lines of the Practice of Physics. Edinburgh: Kincaid & Creech; 1777.

Fünfgeld E. Motilitätspsychosen und Verwirrungen. Berlin: Karger; 1936.


Kleist K. Über zykloide, paranoide und epileptoide Psychosen und über die Frage der Degenerationpsychosen. Schweiz Arch Neurol Neurochir Psychiat 1928; 23: 3-37


Leonhard K, Trostorff S. Prognostische Diagnose der engdogenen Psychosen. Jena: Fischer; 1964


November 26, 2015
Psychopathology, Leonhard’s classification and the deconstruction of Kraepelin’s manic-depressive psychosis

Thomas A. Ban

In the 8th and last edition of his Textbook, in which the chapter on manic-depressive psychosis was written by himself, Kraepelin (1913) defined manic-depressive psychosis (MDP) in terms of “etiology” as an endogenous psychosis “whose appearance is generally unrelated to external circumstances”. He described it in terms of “symptomatology” as an illness that becomes manifest in one of three states/forms: (1) “manic states” characterized by heightened mood, flight of ideas and increased drive; (2) “depressive states” characterized by sad or anxious mood, thought retardation and decreased drive; and (3) “mixed forms” in which “signs of mania and depression appear simultaneously, so that pictures ensue whose traits correspond to those of both illnesses and yet they cannot be classified to either one”. And he characterized it in terms of “course” as an episodic, remitting and relapsing illness, which “as a rule consists of separate attacks more or less sharply delimited from each other or from the normal state of health” (Berner et al 1983).

By stipulating these criteria, Kraepelin (1913) united the “entire realm of periodic and circular insanity, uncomplicated mania, the majority of illness entities taken from ‘melancholia’, and also a non-negligible quantity of amentia cases, including certain mild and moderate mood modifications, which on the one hand are to be considered as preliminary stages of more severe disorders, on the other as blending into the realm of individual nature”. He argued for bringing all these varied conditions together under the diagnosis of MDP by pointing out that despite the differences in the clinical picture, “some basic traits in all these illnesses recur”, that the various illness forms merge into each other without recognizable boundaries, supersede each other in the
same patient, have a uniform prognosis and “can replace one another in genetic ascendency” (Berner et al. 1983).

In contrast to Kraepelin (1913), Leonhard (1957, 1986) offers only minimal guidance for diagnosing the 16 forms (including 10 sub-forms) of illnesses that resulted from his deconstruction of Kraepelin’s MDP. His monograph on The Classification of Endogenous Psychoses has remained from the 1st to the 6th and last edition published in his lifetime a collection of case reports with little introductory and summarizing texts characterizing the different forms and sub-forms of these illnesses. Yet, Leonhard argues (1957) that within the “phasic psychoses” already in the first phase (episode) of the illness, “bipolar” manic-depressive disease can be separated from “unipolar” pure mania and pure melancholia, as well as from the “unipolar” pure depressions and “unipolar” pure euphorias. He contends that the signal difference between “bipolar” manic depressive disease and the “unipolar” forms of “phasic psychoses” is that the “bipolar” form displays a more colorful appearance by varying not only between two poles, but by displaying in each phase and even during a phase different clinical pictures to the extent that no clear syndrome can be described. In contrast, the “unipolar” forms return in a periodic course with the same symptomatology with every individual “unipolar” form characterized by a syndrome associated with no other form and not even related transitionally to any other forms. As the differentiation is not based on the presence or absence of a specific psychopathological symptom or a set of psychopathological symptoms in a point of time, but on the entire (“holistic”) clinical picture in permanent flux, arguably it would be more proper to refer to “monomorphous” and “polymorphous” phasic psychoses then to “unipolar” and “bipolar” phasic psychoses (Petho 1990).

Within Leonhard’s frame of reference, pure mania/pure melancholia can be differentiated from the pure euphorias/pure depressions on the basis of their psychopathology, as pure euphorias/pure depressions are exclusively affective diseases, whereas in pure mania/pure melancholia thought and desire are also disturbed. Thus, in pure melancholia and pure mania all three cardinal symptoms of the melancholic syndrome, i.e., depressed mood, psychomotor retardation and thought retardation, or of the manic syndrome, i.e., elated mood, accelerated thinking and increased psychomotor activity are obligatorily present, whereas in the “pure depressions” and “pure euphorias” thought and desire are not necessarily affected.
In so far as “bipolar” phasic and cycloid psychoses are concerned, Leonhard’s (1957) differentiation is based exclusively on the dominant “elementary” symptom pair, i.e., depressed or elated mood, in case of manic-depressive illness; anxious mood or ecstasy in case of anxiety-happiness psychosis; excited or inhibited confusion in case of excited-inhibited confusion psychosis; and hyperkinesia or akinesia in case of hyperkinetic-akinetic motility psychosis.

The first diagnostic algorithm that provided diagnoses in Leonhard’s classification, relevant to Kraepelin’s MDP was the KDK Budapest, developed by Petko, Ban, Kelemen, Karczag, Ungvari, Bitter and Tolna. It was published in 1984, in the Hungarian periodical, Ideggyogyaszati Szemle. The second diagnostic algorithm was its English adaptation, the DCR Budapest-Nashville, developed in the mid-1980’s by Petko and Ban in collaboration with Kelemen, Ungvari, Karczag, Bitter, Tolna (Budapest), Jarema, Ferrero, Aguglia, Zuria and Fjetland (Nashville); and the third, the Schedule for Operationalized Diagnosis for the Leonhard Classification (SODLC), developed in the late 1980’s by Fritze and Lanzig. Both, the DCR and the SODLC were published in Psychopathology, in 1997 and in 1990, respectively.

References:


Kraepelin E. Psychiatrie. Leipzig: Barth; 1899.

Kraepelin E. Psychiatrie. Leipzig: Barth; 1913.
Ernst Franzek’s comment

Congratulations for the article about "Karl Leonhard's re-evaluation of Kraepelin's diagnostic concept of manic-depressive psychosis".

I would like to reference an important family study of Phuhlmann et al. (2004) to the discussion. Based on modern and highly sophisticated methodology, the authors investigated the relations of cycloid psychosis to bipolar affective disorders. The authors personally examined all living and traceable adult first-degree relatives of 45 cycloid psychotic, 32 manic-depressive and 27 control probands blind to the diagnosis of the index proband. A catamnestic diagnosis was established for each of 431 relatives blind to family data. Age-corrected morbidity risks were calculated using the life-table method. The results were striking. Relatives of cycloid psychotic patients showed a significantly lower morbidity risk for endogenous psychoses in general and manic-depressive illness compared to relatives of patients with manic-depressive illness. The familial morbidity risk for cycloid psychoses was low and did not differ significantly in both proband groups. Further, relatives of cycloid psychotic patients did not differ from relatives of controls regarding familial morbidity. This study indicates that cycloid psychoses can hardly be
integrated in the highly genetically loaded bipolar affective spectrum. The obvious fact that cycloid psychoses in almost all cases are triggered by endogenous or exogenous stress factors like giving birth to a child, by psychosocial stress during work or in relationships, by cocaine or other stimulant drug use (Franzek en Musalek 2011) seems to justify the term "stress induced psychoses". It is suggested that a genetically vulnerable stress (related) system may be a major etiologically factor in cycloid psychosis that is different form the genetically based bipolar affective disorders.

References:


February 18, 2016

**Thomas A. Ban’s reply to Ernst Franzek’s comment**

Thank you for reminding us about Phuhlmann and his associates’ findings, published in 2004 in the Journal of Affective Disorders. I hope it will help to clarify the frequently held misconception that the cycloid psychoses are an integral part of an alleged “bipolar affective spectrum”. The concept of “spectrum disorder” is contrary to the thinking of the Wernicke-Kleist-Leonhard tradition. In his Classification of Endogenous Psychoses, Leonhard (1957, 1979) referred to “cycloid psychoses” as the “evil relatives” of “unsystematic schizophrenias”.

Clinical experience indicates that the cycloid psychoses are pharmacologically different from both bipolar manic-depressive psychosis and the unsystematic schizophrenias. I am looking
forward with interest whether the findings which indicate that the “cycloid psychoses” are “stress-induced psychoses”, could be replicated.

References:


March 24, 2016