

Preliminary bibliography on language use and schizophrenia

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a. *Overviews and descriptions of language use*

- Abu-Akel, A. (1998): 'The study of cohesion in schizophrenia: theory and application'. *Issues in Applied Linguistics* 9: 37-60.
- Allen, H.A., Liddle, P.F., and C.D. Frith (1993): 'Negative features, retrieval processes and verbal fluency in schizophrenia'. *British Journal of Psychiatry* 163: 769-75.
- Ball, M.J., Perkins, M.R., Müller, N. and S. Howard (eds) (2008): *The Handbook of Clinical Linguistics*. Cambridge: Wiley-Blackwell.
- Blaney, PH. (1974): 'Two studies of language behaviour of schizophrenics'. *Journal of Abnormal Psychology* 83(1): 23-31.
- Bentall, R. (2003): *Madness Explained: psychosis and human nature*. London: Penguin. (ch 15)
- Byrne, M.E., Crowe, T.A. and P.S. Griffin (1998): 'Pragmatic language behaviours of adults diagnosed with chronic schizophrenia'. *Psychological Reports* 83: 835-46.
- Chaika, E. (1974): 'A linguist looks at "schizophrenic" language', *Brain and Language* 1(3): 257-76.
- Chaika, E. (1977): 'Schizophrenic speech, slips of the tongue, and jargonaphasia: a reply to Fromkin and to Lecours and Venier-Clément'. *Brain and Language* 4(3): 464-75.
- Chaika, E. (1990): *Understanding Psychotic Speech: beyond Freud and Chomsky*. Springfield, IL: Charles Thomas.
- Condray, R., Steinhauer, S.R., can Kamen, D.P. and A. Kasperek (2002): 'The language system in schizophrenia: effects of capacity and linguistic structure'. *Schizophrenia Bulletin* 28(3): 475-90.
- Cooper, D. (1980): *The Language of Madness*. Harmondsworth: Penguin.
- Covington, M.A., He, C., Brown, C., Naci, L., McClain, J.T., Fjordbak, B.S., Semple, J. and J. Brown (2005): 'Schizophrenia and the structure of language: the linguist's view'. *Schizophrenia Research* 77(1): 85-98. [see also <http://www.ai.uga.edu/caspr/>]
- Cummings, L. (2008): *Clinical Linguistics*. Edinburgh: Edinburgh University Press.
- De Lisi, L.E. (2001): 'Speech disorder in schizophrenia: review of the literature and exploration of its relation to the uniquely human capacity for language'. *Schizophrenia Bulletin* 27: 481-96.
- Docherty, N.M. (2005): 'Cognitive impairments and disordered speech in schizophrenia: thought disorder, disorganization, and communication failure perspectives'. *Journal of Abnormal Psychology* 114(2): 269-78.
- Docherty, N.M., DeRosa, M. and N.C. Andreasen (1996): 'Communication disturbances in schizophrenia and mania'. *Archives of General Psychiatry* 53: 358-64.

- Durbin, M. and R.L. Marshall (1977): 'Speech in mania: syntactic aspects'. *Brain and Language* 4: 208-18.
- Fairbanks, H. (1944): 'Studies in language behavior: II. The quantitative differentiation of samples of spoken language'. *Psychological Monographs* 56: 19-38.
- Fine, J. (1999): 'On the puzzle of language, pragmatics, and schizophrenia'. *Psychological Reports* 84: 84-6.
- Fine, J. (2006): *Language in Psychiatry: a handbook of clinical practice*. London: Equinox.
- France, J. and S. Karmer (eds) (2001): *Communication and Mental Illness: theoretical and practical approaches*. London: Jessica Kingsley.
- France, J. and N. Muir (eds) (1996): *Communication and the Mentally Ill Patient: developmental and linguistic approaches to schizophrenia*. London: Jessica Kingsley.
- Fromkin, V.A. (1975): 'A linguist looks at "A linguist looks at 'schizophrenic language'"'. *Brain and Language* 2: 498-503.
- Goldberg, Y.E. and D.R. Weinberger (2000): 'Thought disorder in schizophrenia: a reappraisal of older formulations and an overview of some recent studies'. *Cognitive Neuropsychiatry* 5(1): 1-19.
- Goldberg, T.E., Aloia, M.S., Gourovitch, M.L., Missar, D., Pickar, D. and D.R. Weinberger (1998): 'Cognitive substrates of thought disorder, I: the semantic system'. *American Journal of Psychiatry* 155: 1671-76.
- Goldfarb, R. and N. Bekker (2009): 'Noun-verb ambiguity in chronic undifferentiated schizophrenia'. *Journal of Communication Disorders* 42(1): 74-88.
- Gourovitch, M.L, Goldberg, T.E. and D.R. Weinberger (1996): 'Verbal fluency deficits in patients with schizophrenia: semantic fluency is differentially impaired as compared with phonologic fluency'. *Neuropsychology* 10(4): 573-7.
- Hotchkiss, A.P. and P.D. Harvey (1986): 'Linguistic analyses of speech disorder in psychosis'. *Clinical Psychology Review* 6(2): 155-75.
- Kasanin, J.S. (ed.) (1931): *Language and Thought in Schizophrenia*. New York: The Norton Library.
- Halpern, H. (1986): *Language and Motor Speech Disorders in Adults*. Austin, TX: Pro-Ed.
- Harrod, J.B. (1986): 'Schizophrenia as a semiotic disorder'. *Schizophrenia Bulletin* 12: 12-13.
- Harrow, M., Prather, P. and I. Lanin-Kettering (1986): 'Is schizophrenia a semiotic disorder?'. *Schizophrenia Bulletin* 12: 15-19.
- Hoffmann, R.E., Stopke, S. and N.C. Andreasen (1986): 'A comparative study of manic vs. schizophrenic speech disorganization'. *Archives of General Psychiatry* 43: 831-8.
- Jakobson, R. and G. Lütte-Grothues (1980): 'The language of schizophrenia'. *Poetics Today* 2: 137-44.
- Jung, C. G. ([1917] 1953): 'The psychology of the unconscious processes'. In: *Collected Works*, vol.7 (trans. R.F. Hull, Trans). London: Routledge and Kegan Paul.
- Kent, G.H. and M.D. Rosanoff (1910): 'A study of association in insanity'. *American Journal of Insanity* 67: 317-90.
- King, K. Fraser, W.I. Thomas, P. and R.E. Kendell (1990): 'Re-examination of the language of psychotic subjects'. *British Journal of Psychiatry* 156: 211-15.

- Kremen, W.S., Seidman, L.J., Faraone, S.V. and M.T. Tsuang (2003): 'Is there disproportionate impairment in semantic or phonemic fluency in schizophrenia?'. *Journal of the International Neuropsychological Society* 9(1): 79-88.
- Kuperberg, G.R. and D. Caplan (2003): 'Language dysfunction in schizophrenia'. In: Schiffer, R.B., Rao, S.M. and S.M. Fogel (eds) *Neuropsychiatry*. 2nd ed. Philadelphia: Lippincott, Williams and Wilkins, pp. 444-66.
- Laing, R.D. (1960): *The Divided Self*. London: Tavistock.
- Lang, H. (1978): 'Acting out et le langage dans la nevrose et la psychose'. Paper presented at the Fifth International Congress of Applied Linguistics (AILA). 20-26 August, Montréal/Canada.
- Lakoff, R. (1981): 'Schizophrenia as communication'. *Semiotica* 34(3-4):355-74.
- Lenzenweger, M.F., Miller, A.B., Maher, B.A. and T.C. Manschreck (2007): 'Schizotypy and individual differences in frequency of normal associations in verbal utterances'. *Schizophrenia Research* 95: 96-102.
- Maher, B. (1972): 'The language of schizophrenia: a review and interpretation'. *British Journal of Psychiatry* 120: 3-17.
- Maher, B. (2003): 'Schizophrenia, aberrant utterance and delusions of control: the disconnection of speech and thought, and the connection of experience and belief'. *Mind and Language* 18: 1-22.
- Mann, M.B. (1944): 'Studies in language behavior: III. The quantitative differentiation of samples of written language'. *Psychological Monographs* 56: 41-74.
- Manschreck, T.C., Maher, B.A. and D.N. Ader (1981): 'Formal thought disorder, the type-token ratio, and disturbed voluntary movement in schizophrenia'. *British Journal of Psychiatry* 139: 7-15.
- Marini, A., Spoletini, I., Rubino, I.A., Ciuffa, M., Bria, P., Martinotti, G., Banfi, G., Boccascino, R., Strom, P., Siracusano, A., Caltagirone, C. and G. Spalletta (2008): 'The language of schizophrenia: an analysis of micro and macrolinguistic abilities and their neuropsychological correlates'. *Schizophrenia Research* 105: 144-55.
- Martin, I. and S. McDonald (2003): 'Weak coherence, no theory of mind or executive dysfunction? Solving the puzzle of pragmatic language disorders.' *Brain and Language* 85: 451-66.
- Meilijson, S.R, Kasher, A. and A. Elizur (2004): 'Language performance in chronic schizophrenia: a pragmatic approach'. *Journal of Speech, Language, and Hearing Research* 47(3): 695-713.
- Merten, T. (1993): 'Word association responses and psychoticism'. *Personality and Individual Differences* 14(6): 837-9.
- Novaes, M. (2005): 'The multiple linguistic resonances of utterances in the psychoses'. *Cadernos de Estudos Linguisticos* 47(1-2): 129-41.
- Oxman, T.E., Rosenberg, S.D. and G.J. Tucker (1982): 'The language of paranoia'. *American Journal of Psychiatry* 139: 275-82.
- Pavy, D. (1968): 'Verbal behaviour in schizophrenia: a review of recent studies'. *Psychological Bulletin* 70: 164-78.
- Pélyvás, P. (1996): *Subjectivity in English: generative grammar vs. the cognitive theory of epistemic grounding*. Frankfurt a.M.: Peter Lang. (chs 5 and 6).

- Pinard, G. and A.R. Lecours (1983): 'The language of psychotics and neurotics'. In: Ours, A.R., Lhermitte, F. and B. Bryans (eds) *Aphasiology*. London: Ballière Tindall, pp. 313-35.
- Püschel, J., Styassen, H.H., Bomben, G., C. Scgarfetter and D. Hell (1998): 'Speaking behavior and speech sound characteristics in acute schizophrenia'. *Journal of Psychiatric Research* 32: 89-97.
- Rieber, R.W. and H. Vetter (1994): 'The problem of language and thought in schizophrenia: a review'. *Journal of Psycholinguistic Research* 23: 149-95. *Psychological Medicine* 31: 197-205.
- Rieber, R.W. and H. Vetter (1995): *The Psychopathology of Language and Cognition*. New York: Plenum Press. (ch 6)
- Ribeiro, B.T. (1993): 'Framing in psychotic discourse'. In D. Tannen (ed.) *Framing in discourse*. New York: Oxford University Press.
- Ribeiro, B.T. (1994): *Coherence in Psychotic Discourse*. New York: Oxford University Press.
- Ribeiro, B.T. (2000): 'Listening to narratives in psychiatric interviews.' In Coulthard, M., Cotterill, J. and F. Rock (eds) *Dialogue analysis VII: working with dialogue*. Tübingen: Max Niemeyer, pp. 283-92.
- Ribeiro, B.T. (2002): 'Erotic strategies in powerless women: analyzing psychiatric interviews'. In Sunderland, J. and L. Litosseliti (eds) *Gender Identity and Discourse Analysis*. Amsterdam: John Benjamins, pp. 193-219.
- Rochester, S. and J. Martin (1979): *Crazy Talk: a study of the discourse of psychotic speakers*. New York: Plenum Press.
- Rodriguez-Ferrera, S., McCarthy, R.A. and P.J. McKenna (2001): 'Language in schizophrenia and its relationship to formal thought disorder'. *Psychological Medicine* 31(2):197-205
- Rosenbaum, B. and H. Sonne (1983): 'Crazy talk: a study of the discourse of schizophrenic speakers'. *Journal of Pragmatics* 7: 207-17.
- Rosenbaum, B. and H. Sonne (1986): *The Language of Psychosis*. New York: New York University Press.
- Rosenberg, S.D. and G.J. Tucker (1979): 'Verbal behaviour and schizophrenia: the semantic dimension'. *Archives of General Psychiatry* 36: 1331-7.
- Ross, H. (1945): 'Language and thought in schizophrenia: collected papers'. *American Journal of Psychiatry* 101: 711-a-712-a.
- Ruesch, J. and G. Bateson (1951): *Communication: the social matrix of psychiatry*. New York: W.W. Norton & Co.
- Sanders, L. M., Adams, J., Tager-Flusberg, H., Shenton, M. E. and M. Coleman (1995): 'A comparison of clinical and linguistic indices of deviance in the verbal discourse of schizophrenics'. *Applied Psycholinguistics* 16: 325-38.
- Schwartz, S. (ed.) (1978): *Language and Cognition in Schizophrenia*. Hillsdale, NJ: Lawrence Erlbaum.
- Sexton, M.E. and A. McKnight (1976): *Analysis of a Document Written by a Schizophrenic Patient*. MA dissertation, Lancaster University.
- Spitzer, M. (1997): 'A cognitive neuroscience view of schizophrenic thought disorder'. *Schizophrenia Bulletin* 23: 29-50.

- Spitzer, U., Uehlein, F., Schwartz, M.A. and C. Mundt (ed.) (1992): *Phenomenology, Language and Schizophrenia*. New York: Springer.
- Sims, A. (ed.) (1995): *Speech and Language Disorders in Psychiatry*. London: Edward Gaskell.
- Stabenau, J.R. (1979): 'Language and cognition in schizophrenia'. *American Journal of Psychiatry* 136: 246.
- Studemund-Halevy, M. (1975): *Language and Psychiatry: information sources in schizolinguistics*. Bern: Peter Lang.
- Thomas, P. and W. Fraser (1994): 'Linguistics, human communication, and psychiatry'. *British Journal of Psychiatry* 165: 585-92.
- Thomas, P., King, K. and W. Fraser (1987): 'Positive and negative symptoms of schizophrenia and linguistic performance'. *Acta Psychiatrica Scandinavica* 76: 144-51.
- Thomas, P., King, K., Fraser, W. and R.E. Kendell (1990): 'Linguistic performance in schizophrenia: a comparison of chronic and acute patients'. *British Journal of Psychiatry* 156: 204-10.
- Tomasina, M.O. and P.J. McKenna (2008): *Schizophrenic Speech: making sense of bathroofs and ponds that fall in doorways*. Cambridge: Cambridge University Press.
- Vanheule, S. (1999): 'Taalgebruik in de psychose: een vraag naar kruisbestuiving tussen Lacan en enig experimenteel onderzoek'. *Tijdschrift voor Psychoanalyse* 5(2): 89-102.
- Vetter, H. (1969): *Language Behavior and Psychopathology*. Chicago: Rand McNally.
- Walder, D.J., Seidman, L.J., Cullen, N., Su, J., Tsuang, M.T. and J.M. Goldstein (2006): 'Sex differences in language dysfunction in schizophrenia'. *American Journal of Psychiatry* 163(3): 470-7.
- Wykes, T. and J. Leff (1982): 'Disordered speech: differences between manics and schizophrenics'. *Brain and language* 15: 117-24.
- Wodak, R. and P. van de Craen (eds) (1987): *Neurotic and Psychotic Language Behaviour*. Philadelphia: Multilingual Matters. (chs 7-16)
- Wrobel, J. (1990): *Language and Schizophrenia*. Amsterdam: Benjamins.

b. Semantic processing, use of metaphor and metonymy

- Aloia M.S., Gourovitch, M.L., Weinberger, D.R. and T.E. Goldberg (1996): 'An investigation of semantic space in patients with schizophrenia'. *Journal of the International Neuropsychological Society* 2(4): 267-73. [study of semantic processing, but potentially relevant for metaphor production]
- Billow, R.M., Rossman, J., Lewis, N., Goldman, D. and C. Raps (1997): 'Observing expressive and deviant language in schizophrenia'. *Metaphor and Symbol* 12(3): 205-16.
- Corcoran, R. (1999): 'Autonoetic awareness, executive social skills, and the appreciation of intention: figurative reasoning in amnesia, confabulation, and schizophrenia'. *Cognitive Neuropsychiatry* 4(1): 55-80.
- Cutting, J. and D. Murphy (1990): 'Preference for denotative as opposed to connotative meanings in schizophrenics'. *Brain and Language* 39(3): 459-68.

- Dascal M. and E. Rancozo (1989): 'The pragmatic turn in psycholinguistics: problems and perspectives'. *Theoretical Linguistics* 15(1-2): 1-23. [literal meaning and schizophrenic language production]
- Elvevåg, B., Fisher, J.E., Gurd, J.M. and T.E. Goldberg (2002): 'Semantic clustering in verbal fluency: schizophrenic patients versus control patients'. *Psychological Medicine* 32: 909-17. [study of semantic processing, but potentially relevant for metaphor production]
- Frow, John (2001): 'Metaphor and metacommunication in schizophrenic language'. *Social Semiotics* 11(3): 275-87.
- Kiang, M. (2005): 'Conceptual blending theory and psychiatry'. *Cognitive Science* 3(1): 13-24.
- Kuperberg, G.R., Sitnikova, T., Goff, D. and P.J. Holcomb (2006): 'Making sense of sentences in schizophrenia: electrophysiological evidence for abnormal interactions between semantic and syntactic processing'. *Journal of Abnormal Psychology* 115(2): 251-65. . [study of semantic processing, but potentially relevant for metaphor production]
- Kutas, M. (2006): 'One lesson learned: frame language processing—literal and figurative— as a human brain function'. *Metaphor and Symbol* 21(4): 285-325.
- Langdon, R., Davies, M. and M. Coltheart (2002): 'Understanding minds and understanding communicated meanings in schizophrenia'. *Mind and Language* 17(1-2): 68-104. [metaphor comprehension in schizophrenic informants]
- Nestor, P.G., Kimble, M.O., O'Donnell, B.F., Smith, L., Niznikiewicz, M., Shenton, M.E. and R.W. McCarley (1997): 'Aberrant semantic activation in schizophrenia: a neurophysiological study'. *American Journal of Psychiatry* 154(5): 640-6. study of semantic processing, but potentially relevant for metaphor production]
- Paulhamus, G.R. (1999): *Schizophrenia and Metaphor: developing a paradigm to train graduate students to recognize and utilize the metaphoric content in schizophrenic language*. PhD thesis, University of Michigan Ann Arbor.
- Pelsser, R. (1978): 'Remarques linguistiques et semiotiques sur le concept de symbolisation en psychoanalyse'. *L'Evolution Psychiatrique* 43(2): 297-324. [Lacanian psychoanalytical approach to metaphor and metonymy]
- Pinto, T.C. (2004): 'On the psychosis or the enunciatory demand in delirious discourse'. *Topicos del Seminario* 11: 77-102. [psychoanalytic study discussing use of metaphor and metonymy]
- Rhodes, J.E. and S. Jakes (2004): 'The contribution of metaphor and metonymy to delusions'. *Psychology and Psychotherapy: Theory, Research and Practice* 77(1): 1-17.
- Sperber, D. (1985): *On Anthropological Knowledge: three essays*. Cambridge: Cambridge University Press. [account of 'delusional' language as metaphoric]
- Titone, D., Libben, M., Niman, M., Ranbom, L. and D.L. Levy (2007): 'Conceptual combination in schizophrenia: contrasting property and relational interpretations'. *Journal of Neurolinguistics* 20(2): 92-110. [study of semantic processing, but potentially relevant for metaphor production]
- Vanheule, S. (2000): 'Schizofrenie en metonymie: een verkenning aan de hand van Louis Wolfson en Raymond Roussel'. *Rondzendbrief uit het Freudiaanse veld* 17(66): 23-33.

c. Language use as a criterion in the diagnosis of schizophrenia

- Andreasen, N.C. (1979): 'The clinical assessment of thought, language and communication disorders'. *Archives of General Psychiatry* 36: 1315-21.
- Andreasen, N.C. (1979): 'Thought, language and communication disorders: diagnostic significance'. *Archives of General Psychiatry* 36: 1325-21.
- Andreasen, N.C., and W.M. Grove (1986): 'Thought, language and communication in schizophrenia: diagnosis and prognosis'. *Schizophrenia Bulletin* 12: 348-59.
- Chen, E.Y.H., Lam, L.C.W., Kan C.S., Chan, C.K.Y., Kwok, C.L., Nguyen, D.G.H. and R.Y.L. Chen (1996): 'Language disorganisation in schizophrenia: validation and assessment with a new clinical rating instrument'. *Hong Kong Journal of Psychiatry* 6(1): 4-13.
- Diederich, J., Al-Ajmi, A. and P. Yellowlees (2007): 'E_x-ray: data mining and mental health'. *Applied Soft Computing* 7: 923-8.
- Fortgang, B. (2009): *Schizophrenic language: the possibility of early detection*. Undergraduate dissertation, Cornell University.
- Fraser, W.I., Kin, K.M., Thomas, O.P. and R.E. Kendell (1986): 'The diagnosis of schizophrenia by language analysis'. *British Journal of Psychiatry* 148: 275-8.
- Leff, J. (1993): "'Crazy talk: thought disorder or psychiatric arrogance?": comment'. *British Journal of Medical Psychology* 66: 77-8.
- Liddle, P.F., Ngan, E.T.C., Caissie, S.L., Anderson, C.M., bates, A.T., Quested, D.J., White, R. and R. Weg (2002): 'Thought and language index: an instrument for assessing thought and language in schizophrenia'. *British Journal of Psychiatry* 181: 326-330.
- Manschreck, T.C., Maher, B.A., Hoover, T.M. and D. Ames (1984): 'The type-token ratio in schizophrenic disorders: clinical and research value'. *Psychological Medicine* 14: 151-7.
- Meara, P. (1978): 'Schizophrenic symptoms in foreign language learners'. *University of East Anglia Papers in Linguistics* 7: 22-49.
- Morice, R. and J.C.L. Ingram (1982): 'Language analysis in schizophrenia: diagnostic implications'. *Australia and New Zealand Journal of Psychiatry* 16: 11-21.
- Szasz, T. (1993): 'Crazy talk: thought disorder or psychiatric arrogance?'. *British Journal of Medical Psychology* 66: 61-7.
- Thomas, P., Kearney, G., Napier, E., Ellis, E., Leudar, I. and M Johnson (1996): 'The reliability and characteristics of the brief syntactic analysis'. *British Journal of Psychiatry* 168: 334-7.