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Mood Symptoms as Comorbidity in Schizophrenia

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Mood symptoms as comorbidity in schizophrenia

Amresh Srivastava,

Assistant Professor of psychiatry, University of Western Ontario, London, Associate Scientist, Lawson Health Research Institute, London Lecture.reginal.Mental.Health care.St.Thomas.

Declaration

- Janssen Group
- Eli Lilly
- Astra Zeneca
- Nicholas Piramal-Rosch
- Pfizer
- Sun Pharma- India

- Consultant
- Advisor
- Drug trial coordinator
- Research Investigator
- Reviewer
- Speaker
- Educational Groups

Depression in and within schizophrenia in common 21-80%

Prevalence

- 7 to 70%
- Wide range reflects how schizophrenia and depression was diagnosed

Epidemiology

ECA patients meeting DSM III criteria for schizophrenia were 14 to 28.5 times more likely to have a concurrent major depressive syndrome than general population

In NCS ,59% of patients with schizophrenia met DSM III R criteria for major or minor depression Presentation and Nature of Depression as Syndrome in the clinical course

Co-existing co morbid depression & dysthiamia

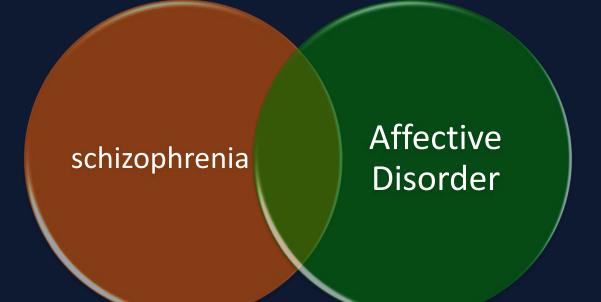
Longitudinal

course

- As major depressive episode
- As frank manic episode
- As mixed states
- As dysphoric states
- As masked depression or somatized
- As suicidality

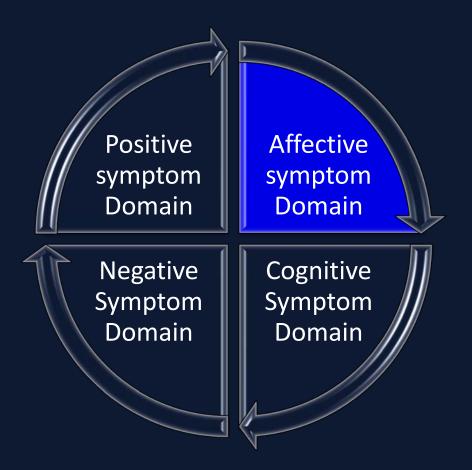
Schizo-affective Schizomanic Schizo-obsessive Schizophrenia spectrum Major mood disorder **Bipolar** disorder

"It is increasingly becoming clear that we can not distinguish satisfactorily between these two illness and this brings home the suspicion that our formulation of problem may be incorrect" *Kraepelin .E.*

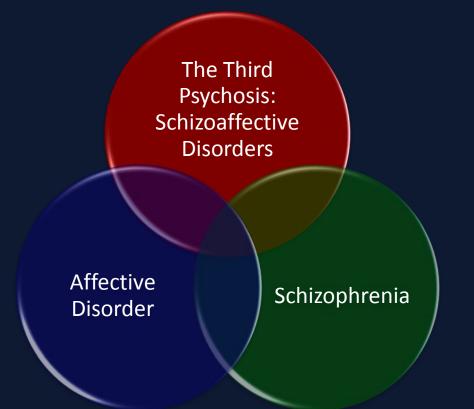


Historical Phenomenological and diagnostic dilemma

Affective symptoms as integral part of schizophrenia across its course



Emergence of new diagnosis: Jacob kasonin 1933



Clinical overlap of schizophrenia spectrum and bipolar spectrum disorder

Current issues on schizoaffective disorder <u>Encephale.</u> 2005

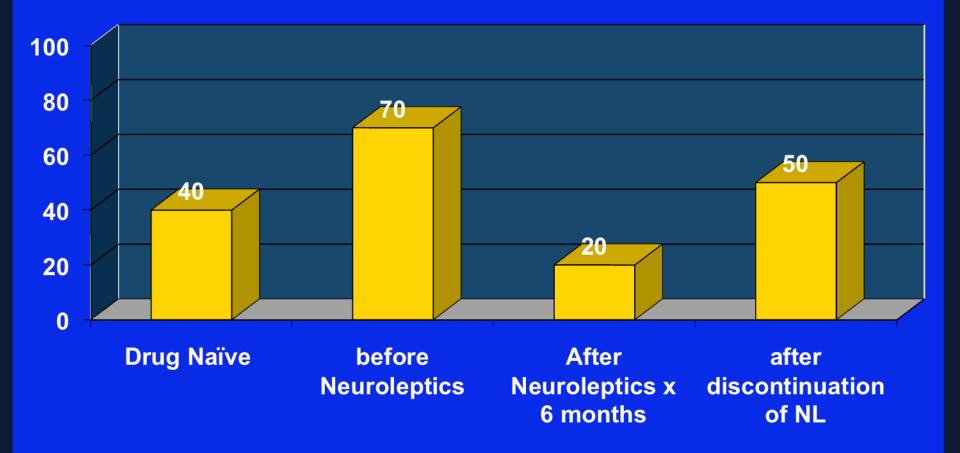
- Research on schizoaffective disorder has been marred by the variability of its definition.
- Further studies are however still necessary, especially with regard to the subtyping of the disorder and its pharmacological treatment.

Are schizophrenia and affective disorder related? 2007

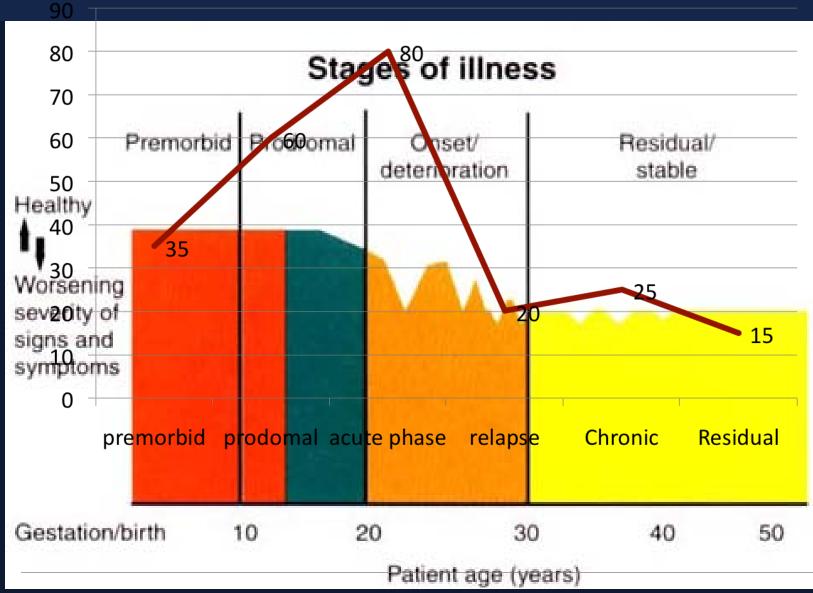
The Kraepelinian view of psychoses may need modification.

Best evidence of depression in Schizophrenia and Correlation with of Neuroleptics comes from epidemiology

(Johnson, 1981, Hirsch 1989, Hirsch 1973)

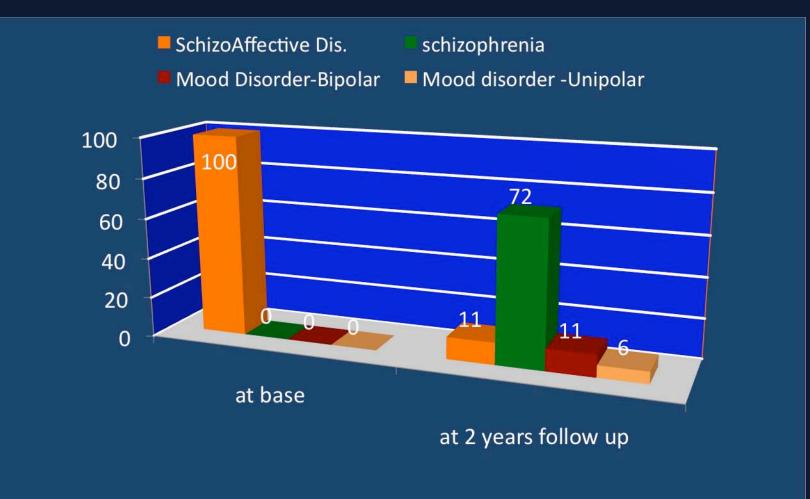


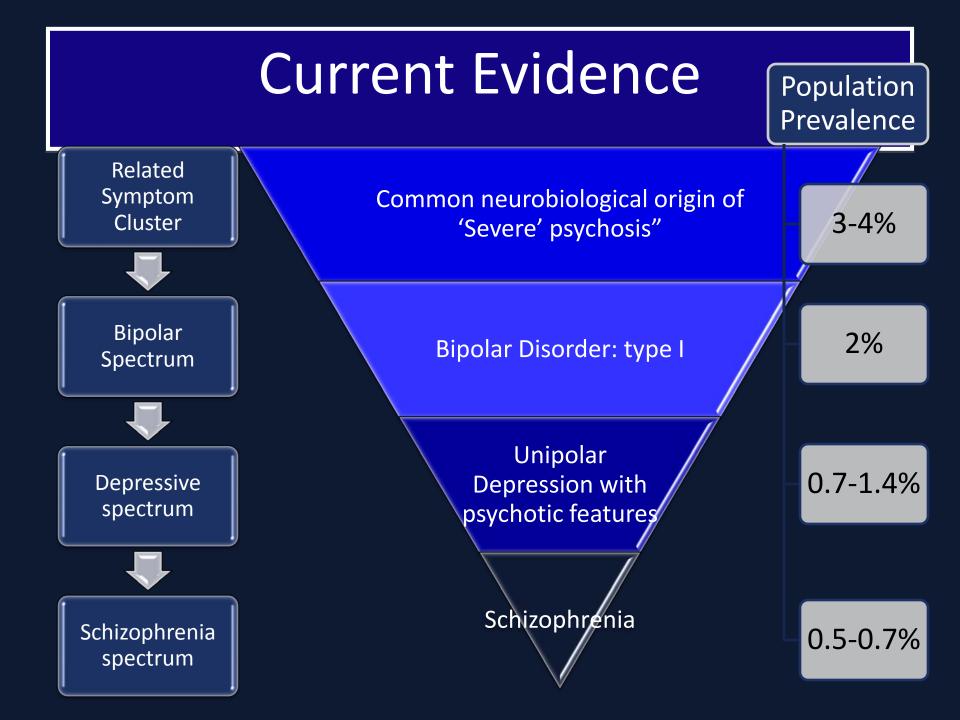
Depression occurs across the course of schizophrenia



'Diagnostic Validity of Schizoaffective disorders'

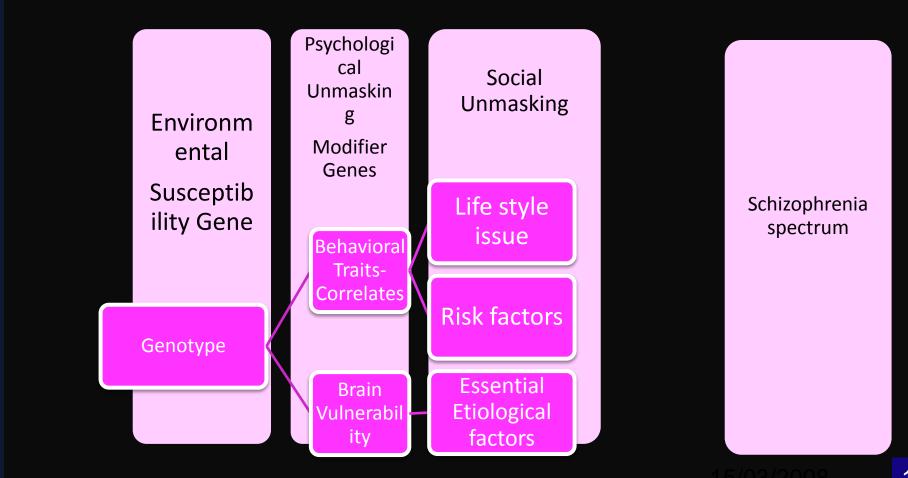
Shrivastava A, Rao, S. IJP.1997





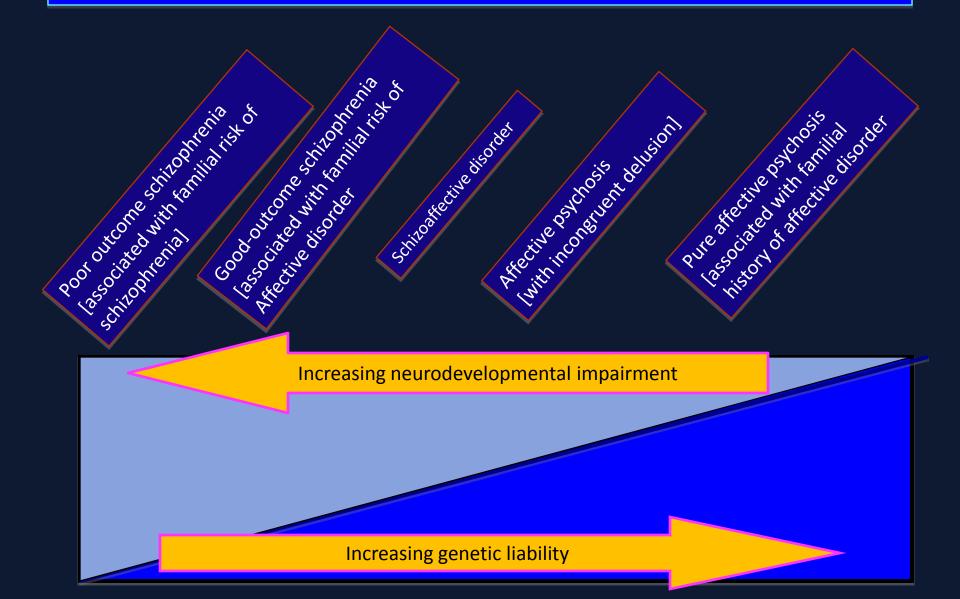


An Endophenotype of Schizophrenia



16

Continuum of genetic liability to psychotic illness



Neuroendocrine: Evidence for a neuromodulatory role for TRH

CSF thyrotropin-releasing hormone concentrations differ in patients with schizoaffective disorder from patients with schizophrenia or mood disorders, : Charles B. Nemeroffc Journal of Psychiatric Research Volume 35, Issue 5, September-October 2001, Does schizoaffective disorder really exist? middle point of a continuum between SCH and MD.

J Affect Disord. 2008 Mar

Schizoaffective disorder merges schizophrenia and bipolar disorders as one disease-

-there is no schizoaffective disorder

Curr Opin Psychiatry. 2007 Jul;.

Schizoaffective disorders are psychotic mood disorders; there are no schizoaffective disorders.

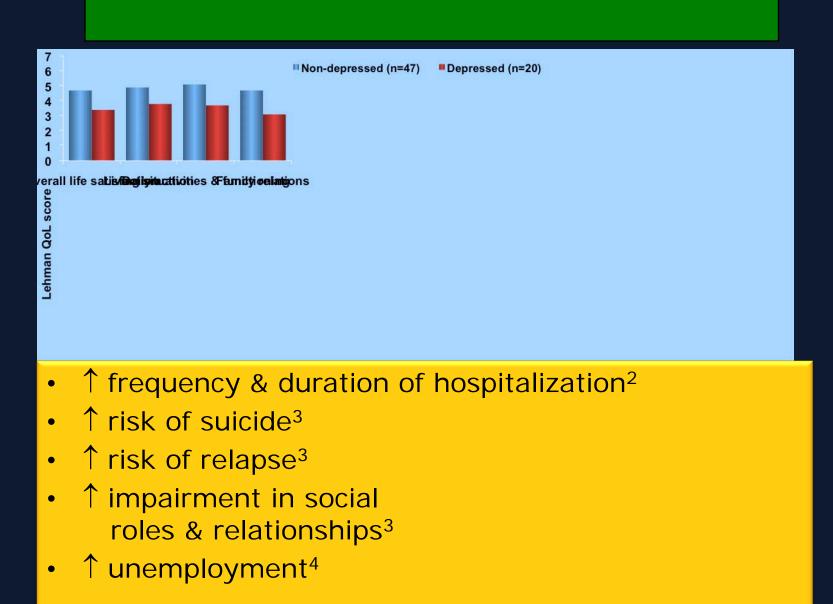
Psychiatry Res. 2006 Aug





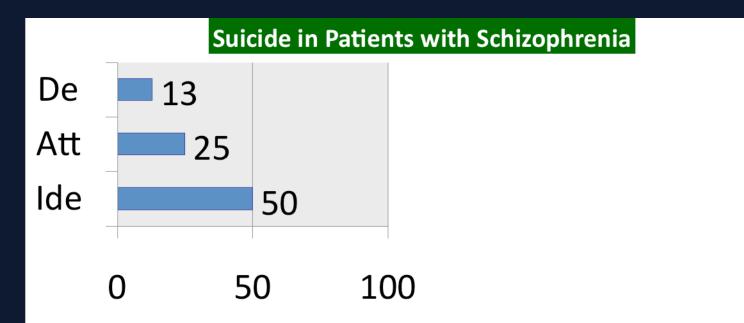
Depression in schizophrenia:. MRI and PET findings. Biol Psychiatry. 1998 The high depression group had larger bilateral temporal lobe volumes and decreased laterality (left minus right of metabolism in the anterior cingulate).

Depression-suicide & Schizophrenia



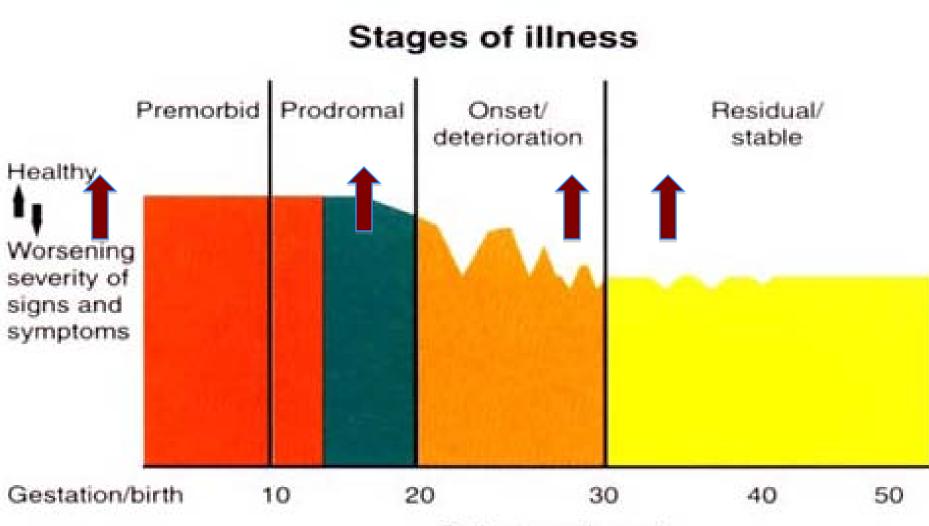
Burden of Illness of Comorbid Depression in Schizophrenia

Depression in schizophrenia associated with lower QoL $(n=67)^{1}$



Treatment Choice and Phase of illness

Natural history of schizophrenia



Patient age (years)

Current evidence: Anti Depressant Drugs

Use of antidepressant drugs in schizophrenic patients with depression <u>Encephale.</u> 2006

- The results provide weak evidence for the efficacy of antidepressants in patients with schizophrenia and depression.
- the only SSRI tested in the treatment of depression in schizophrenic patients is sertraline.
- In meta-analysis, No difference between the 2 treatment groups was demonstrated

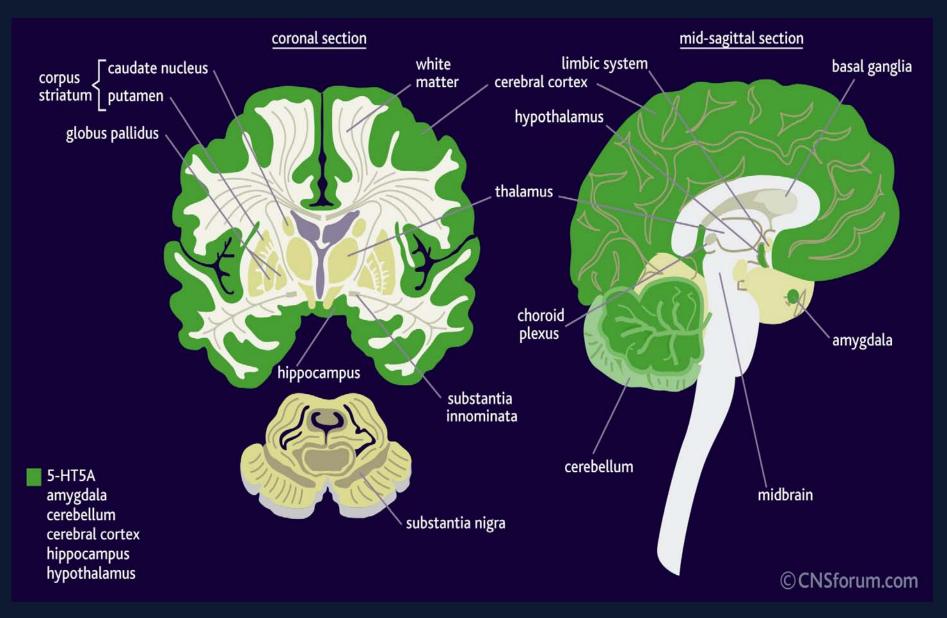
Current evidence : Mood Stabilizers

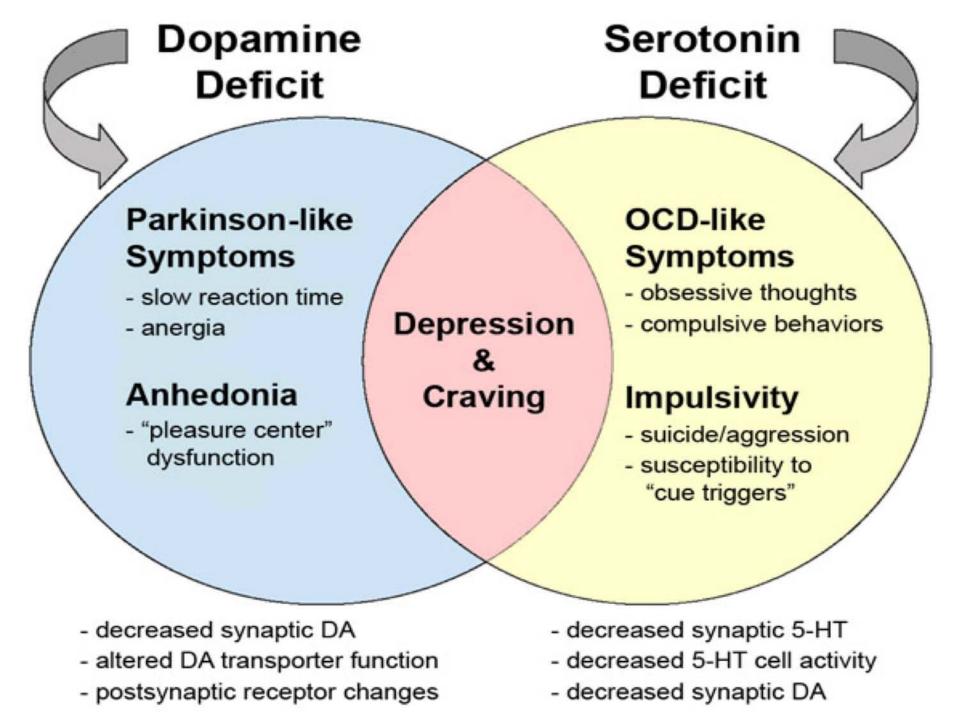
- Lithium
- Carbamezapine
- Valproic acid
- Lamotregene
- Toperamate
- Gabapentine
- Calcium channel blockers

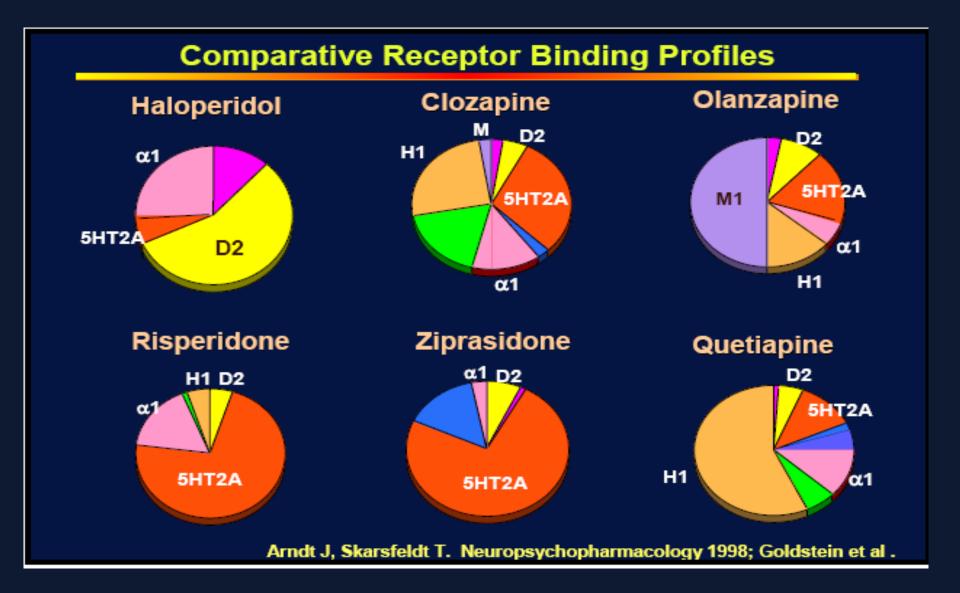
Are atypical neuroleptics mood stabilisers?

- Are they effective beyond psychotic affective states?
- Are they effective against the depressive phase of bipolar disorder?
- Do they induce mania?
- Do they work in mixed states?
- Do they work in rapid cycling?
- Can they prevent suicide?

5 HT System in the Brain







Depression in schizophrenia : perspective in era of 'atypical antipsychotics'. Siris ,S.G.AJP 2000 ;157

How do we explain?

Why do Atypical antipsychotics have Antidepressant action? A: Regional distribution of 5-HT System in the Brain??

- Optimizing antipsychotic treatment and atypical antipsychotics prove to be most effective
- Adjunctive antidepressants may be useful for patients who are not acutely ill
- Careful longitudinal assessment is required to ensure identification of primary mood disorders

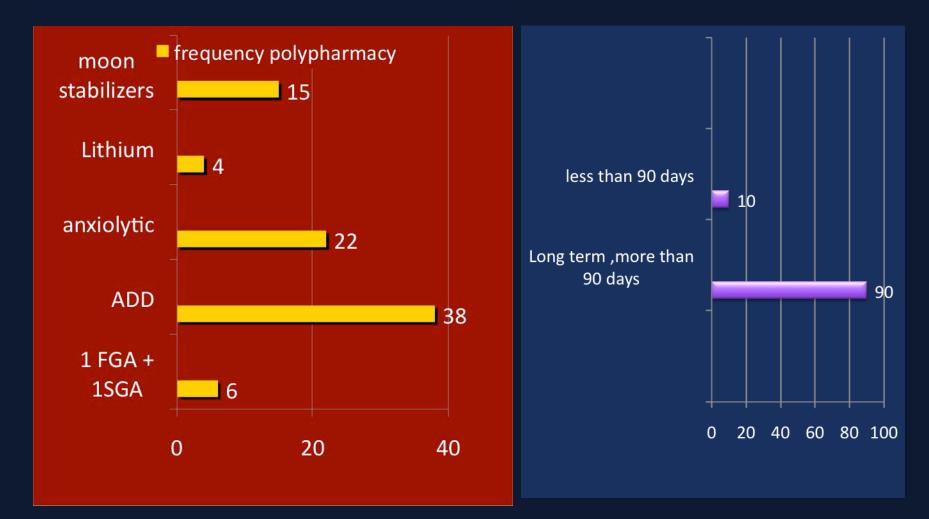
Relative Efficacy of AAPD for mood symptoms and suicidality in Schizophrenia

- Clozapine
- Olanzapine
- Aripiprazole
- Quetiapine
- Amisulpiride

Increasing efficacy

- Ziprasidone
- Paliperidone
- Risperidone

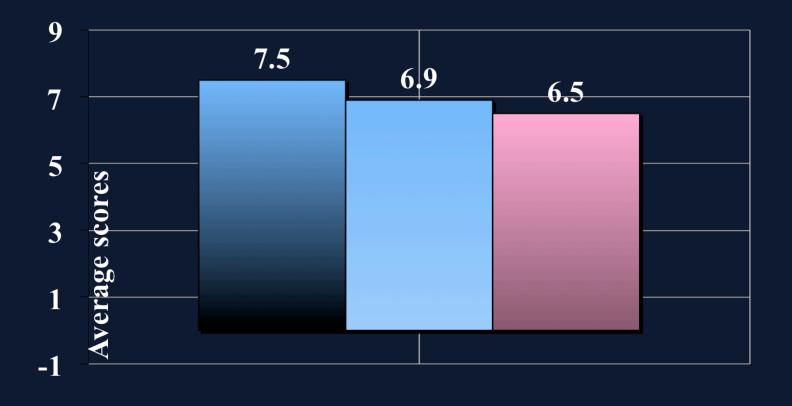
CATIE outcome of Mood symptoms



Does quetiapine have mood altering properties?

- The data indicate that a side-effect of quetiapine may be mood elevation.
- An ability to elevate mood while controlling psychoses would be helpful in the treatment of postpsychotic and bipolar depression.
- Its clinical importance in the control of manic episodes, for which atypical antipsychotics are used increasingly, is uncertain.

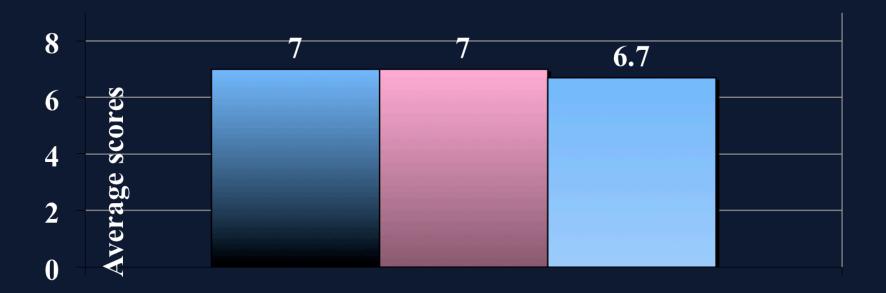
Schizophrenia with associated complications: Dysphoria



Olanzapine
Risperidone
Clozapine

McEvoy JP. Journal of Clinical Psychiatry 1999;60(11):1-80.

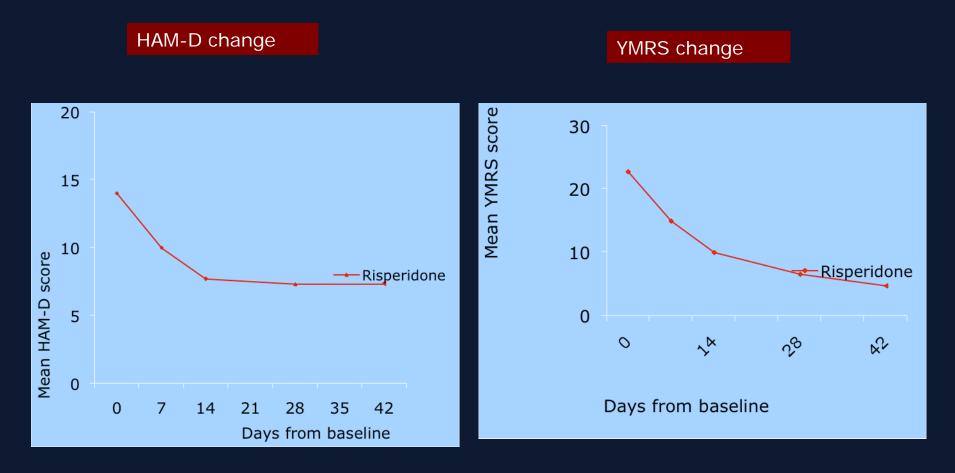
Schizophrenia with associated complications: Suicidal behavior



Olanzapine Clozapine Risperidone

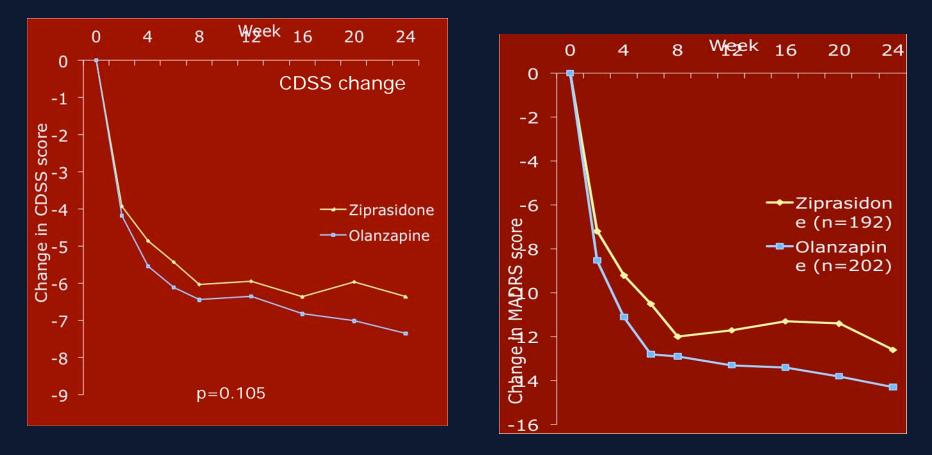
McEvoy JP. Journal of Clinical Psychiatry 1999;60(11):1-80.

6-wk, open-label study in patients with schizoaffective disorder, bipolar type (n=102)



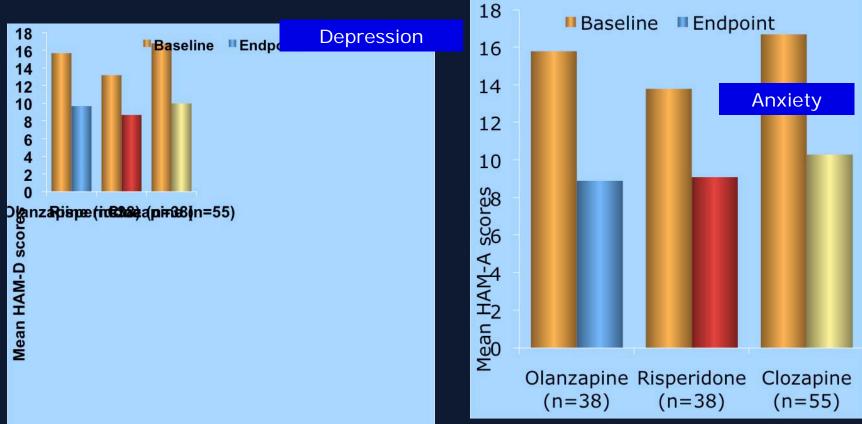
1. Kinon et al. J Clin Psychopharm 2006; 26: 157-62.

24-week, RCT in patients with schizophrenia or schizoaffective disorder with depressive symptoms (n=394)



CDSS: Calgary Depression Scale for Schizophrenia MADRS: Montgomery-Asberg Depression Rating Scale

Atypical Antipsychotics: Improvement in Depressive Symptoms



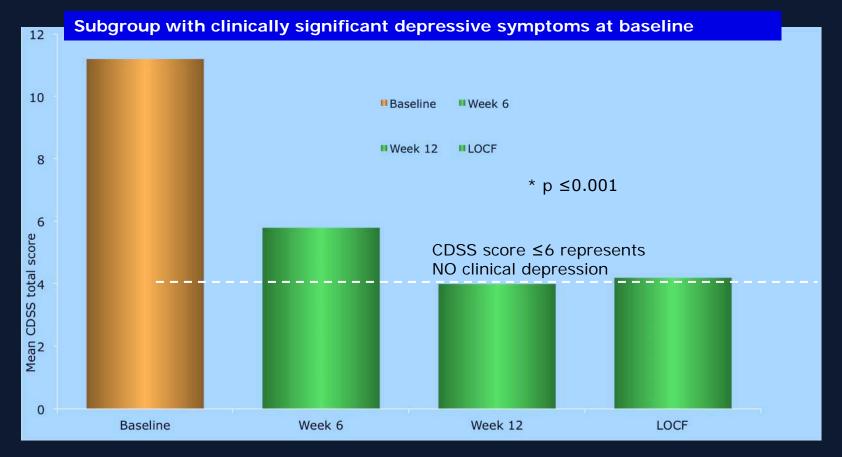
12-week, naturalistic, observational study

HAM-D: Hamilton Rating Scale for Depression; HAM-A: Hamilton Rating Scale for Anxiety

1. Strous et al. Hum Psychopharm 2006; 21: 235-43.



Switching Antipsychotics May Improve Depressive Symptoms



CDSS: Calgary Depression Scale for Schizophrenia

1. De Nayer et al. Int J Psych Clin Pract 2003; 7:59-66.

SPECTRUM, 12-wk, open trial in patients with schizophrenia switched to quetiapine (n=509)

Current evidence : ECT J ECT. 2006 Jun;22(2):127-32.



Role of Adjunctive Therapies for Mood Symptoms.

Schizoaffective disorder

- Lithium: little evidence of benefit for manic type
- Antidepressants: Antipsychotic + AD equal or less effective than antipsychotic alone
- Anticonvulsants: No evidence of benefit

 Antidepressants^{2,3}
 Acutely: no advantage of antipsychotic + AD vs. antipsychotic alone
 Post-psychotic MDD: adjunctive AD may be useful

 Optimizing antipsychotic treatment is likely a more effective strategy for mood symptoms

1. Leucht *et al. J Clin Psychiatry* 2004;65:177-86. 2. Levinson *et al. Am J Psychiatry* 1999;156:1138-48. 3. Whitehead *et al. Cochrane Database Syst Rev* 2002:CD002305.

Psychosocial Interventions in Schizophrenia

- Proven effective adjuncts to pharmacotherapy¹
 - Social skills training
 - Cognitive remediation
 - Psychoeducational coping-oriented interventions with families & relatives
 - Cognitive behavioural therapy

1. Pfammatter *et al. Schizophr Bull* 2006; 32 Suppl 1: S64-80. 2. Jaeger *et al. Aust N Z J Psychiatry* 2006; 40: 452-61. 3. Lysaker *et al. J Rehabil Res Dev* 2005; 42: 673-82. 4. Pitschel-Walz et al. *J Clin Psychiatry* 2006; 67: 443-52.

Comprehensive Treatment Programs

- Specialized early intervention approach can provide: ^{1,2}
 - ↑ short-term clinical and functional outcomes
 - ↑ retention in treatment
 - ↓ relapse rates

 - ↑ greater family involvement
 - ↑ QoL

1. Malla *et al. Can J Psychiatry* 2005;50:881-91. 2. Harvey *et al. Can J Psychiatry* 2007;52:464-72. Future Classification of mental disorders: Hypothesis: From 1933 to 2008



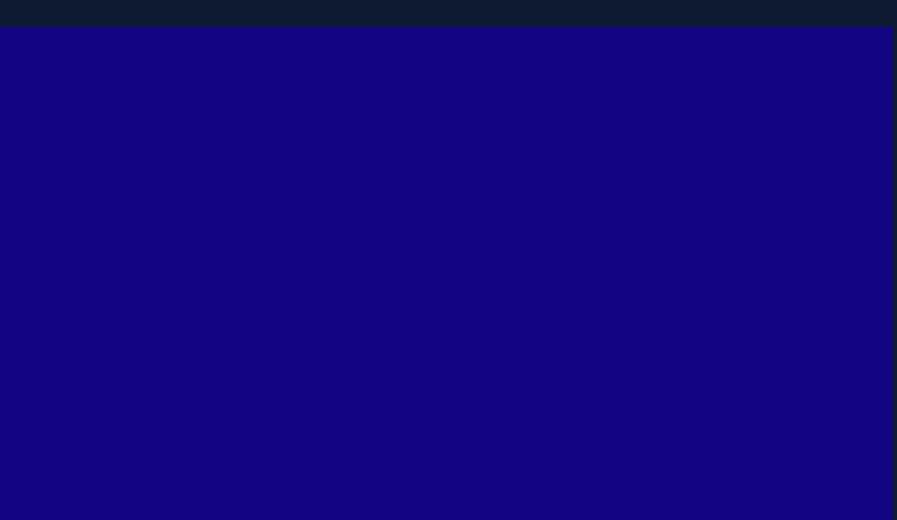
Why does suicide occur in psychosis?

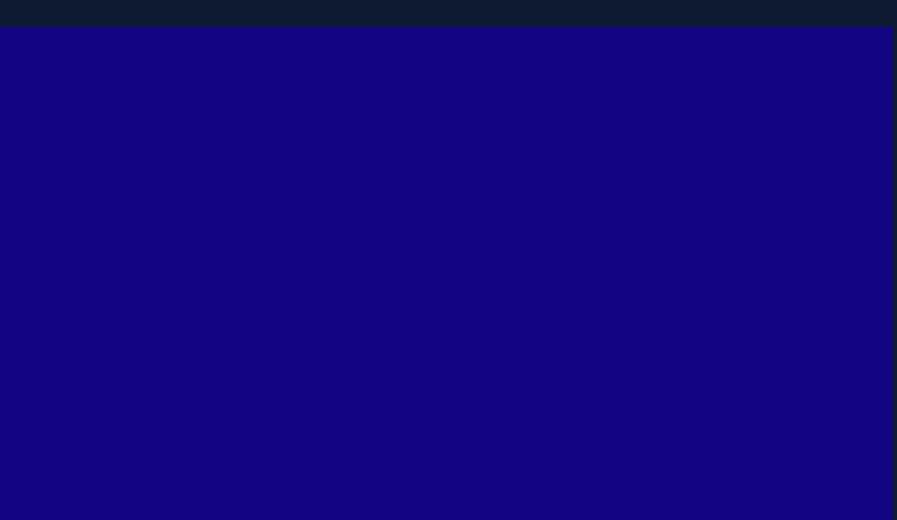


What is clinical relevance of this context?

Evidence for occurrence of depression before suicide attempt 1.Biological findings 2.Psychological theories 3. Epidemiological findings 4.Postmartum studies 5.Post-vention studies

> There is evidence Of depressed mood In 98% subjects who Successfully kill themselves





Prevention of Suicide in Psychotic Disorders: General principles and strategies.

Term 'Discharge' is a misnomer. It is actually 'transfer of Care from Hospital to Community' It is a dynamic Process' . It is just a mile stones on Continuous spectrum of care Review: Assessment, Outcome, Care Plan, Discharge Plan, Risk Management & Transfer of care

Documentation

Prevention of Suicide in Psychotic Disorders: General principles and strategies.

Prevention of Suicide in Psychotic Disorders: General principles and strategies.



Conclusions: Schizoaffective disorders. There are many unanswered questions

- Mood symptoms are common, responsive and severe.
- Schizoaffective disorder is a severe psychotic disorder with disability, burden and complications.
- Schizoaffective Disorder is an inconsistent condition and does not deserve an independent diagnosis
- We are moving towards unitary theory for single-severepsychotic-disorder, based on clinical and biological evidences
- Treatment appears inadequate and unclear, but optimizing atypicals APD appears best option.
- Clozapine has a special efficacy.