

MRCPsych General Adult Psychiatry

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Psychosis 4

Developing people

for health and

healthcare

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Objectives

To develop an understanding of:

- the course and prognosis of schizophrenia
- risk factors for poor outcomes
- the relevance of duration of untreated psychosis

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Expert Led Session

Schizophrenia: Course & Prognosis

Overview

- Historical view
- Course
- Prognosis
- Risk factors for poorer outcomes
- Duration of untreated psychosis
- Treatment resistance
- Physical Health
- Suicide

Schizophrenia

- Schizophrenia affects more than 21 million people worldwide¹
 - Approx 220,000 people in England and Wales²
- Affects around 1 in every 100 people over the course of their life³
- In 2007 - accounted for approx 30% of total expenditure on adult MH & social care services²
- Moderate/severe disability in 60% of cases²
- Mortality is approx fifty percent above that of the general population²

Historical view

- Kraepelin - *dementia praecox* (“premature dementia”)
 - viewed as having a progressive downhill course, similar to forms of dementia, but starting earlier in life⁴
- Bleuler – *schizophrenia* (reflecting observations of loose associations)
 - recognition that some symptoms are chronic, but that patients don’t always show a downward course; chronic symptoms often less severe after the initial acute phase⁴

Course/Outcome

- Overall outcome poor compared to other psychiatric disorders (except dementias)⁴
- Follow up studies have shown considerable variation in long-term outcome⁵
- People vary considerably in their pattern of symptoms and in the course of any remaining difficulties⁵
- Risk factors interact with personality, temperament, and cognitive traits that influence its course⁴

Course/Outcome

- Most people recover from the initial acute phase; only 14-20% recover fully
- Approx 80% will relapse within 5 years of a treated first episode
 - partly due to stopping medication
- Others (3/4) improve but have recurrent relapses & some degree of ongoing disability
 - timing related to stress, adversity, social isolation, treatment compliance
- Smaller proportion have extended periods of remission without further relapses
- In the longer term (up to 15 years) over half of those diagnosed will have episodic rather than continuous difficulties

In summary...

For every 5 people with schizophrenia:

- 1 will get better within five years of their first obvious symptoms
- 3 will get better, but will have times when they get worse again
- 1 will have troublesome symptoms for long periods of time

(RCPsych³)

Remember

- Some people who never experience complete recovery from their experiences still manage to sustain an acceptable quality of life if given adequate support and help⁵
- “There is a subgroup of schizophrenia patients who, a few years after the acute phase, function adequately or experience periods of recovery for a number of years, without treatment”⁴

Predictors for poor odds of remission

Non-modifiable risk factors⁶

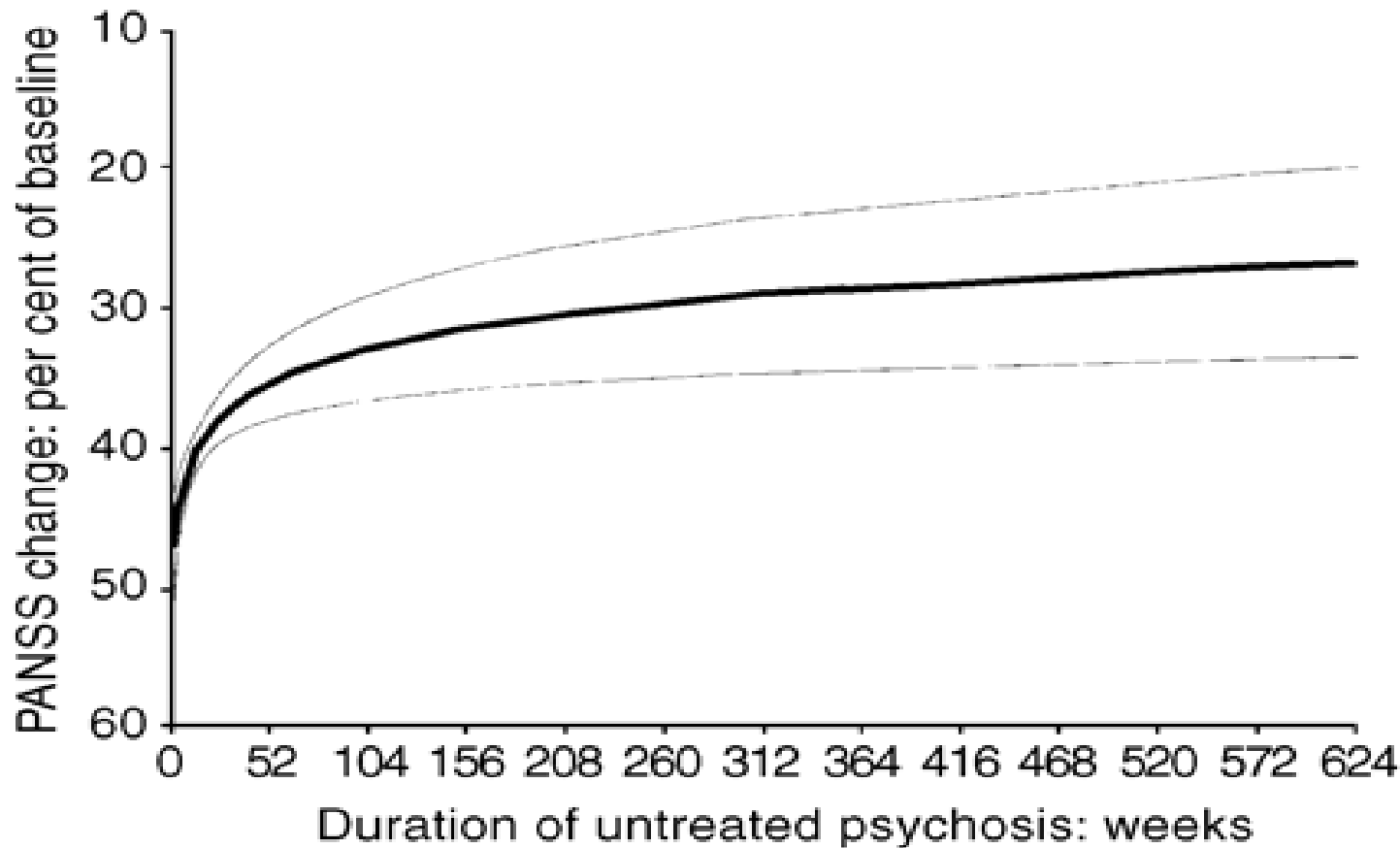
- Male sex
- Younger age at disease onset
- Poor premorbid adjustment
- Severe baseline psychopathology

Predictors for poor odds of remission

Modifiable risk factors⁶

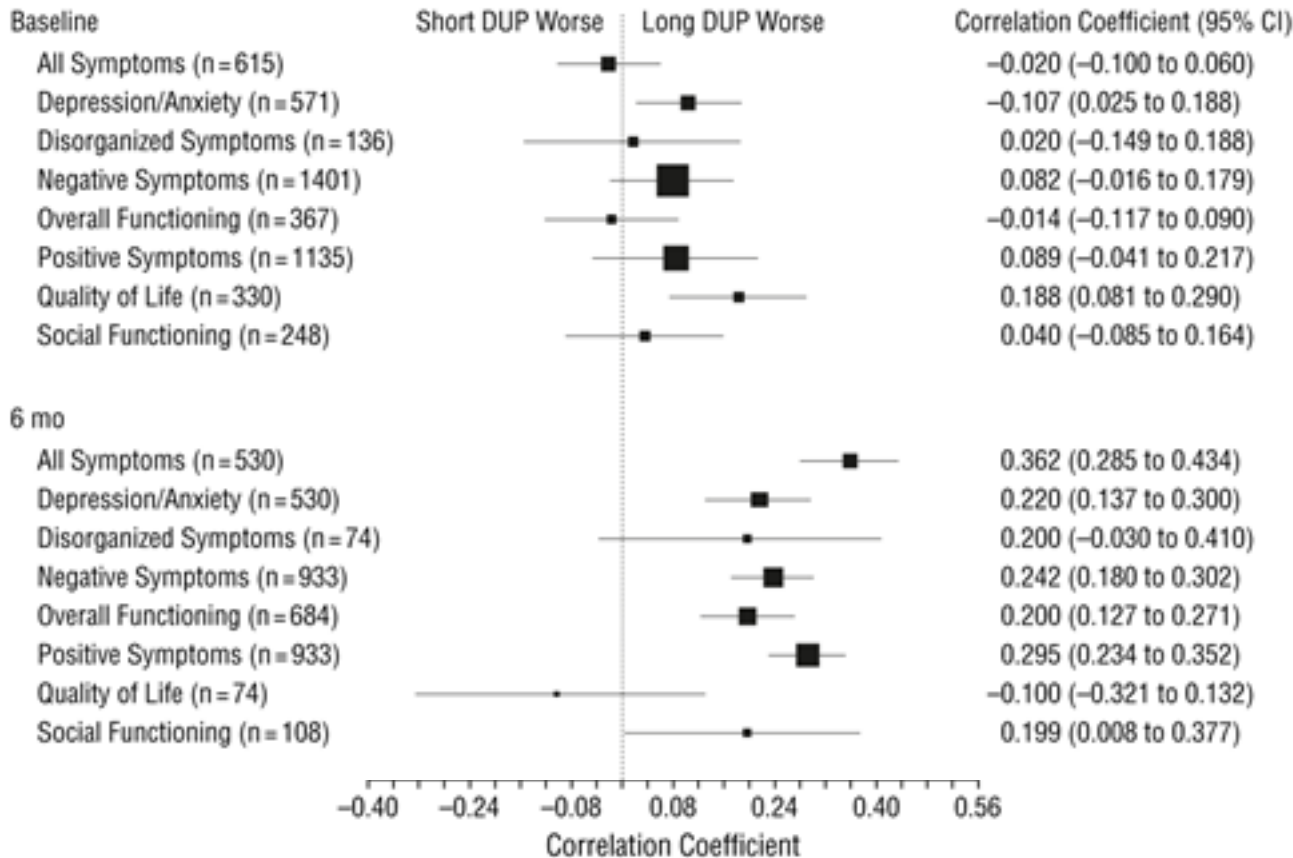
- Longer duration of untreated illness
- Nonadherence to antipsychotics
- Comorbidities (esp substance misuse)
- Lack of early antipsychotic response
- Lack of improvement with non-clozapine antipsychotics, predicting clozapine response

Duration of untreated psychosis



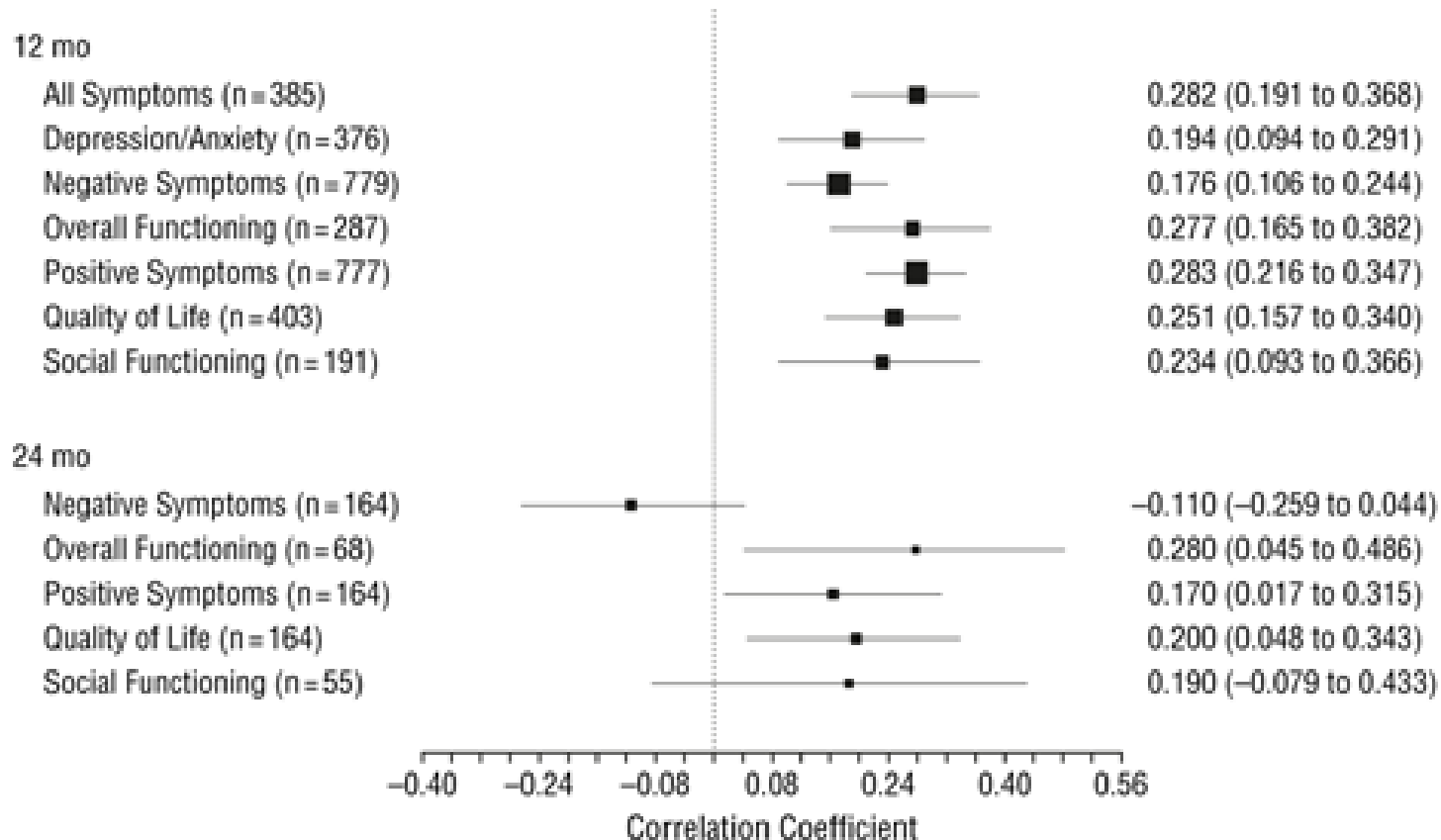
(7)
 From: Drake et al.
 Causes and consequences of
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 schizophrenia. The
 British Journal of
 Psychiatry.
 2000, 177 (6) 511-515

DUP – shorter term outcomes



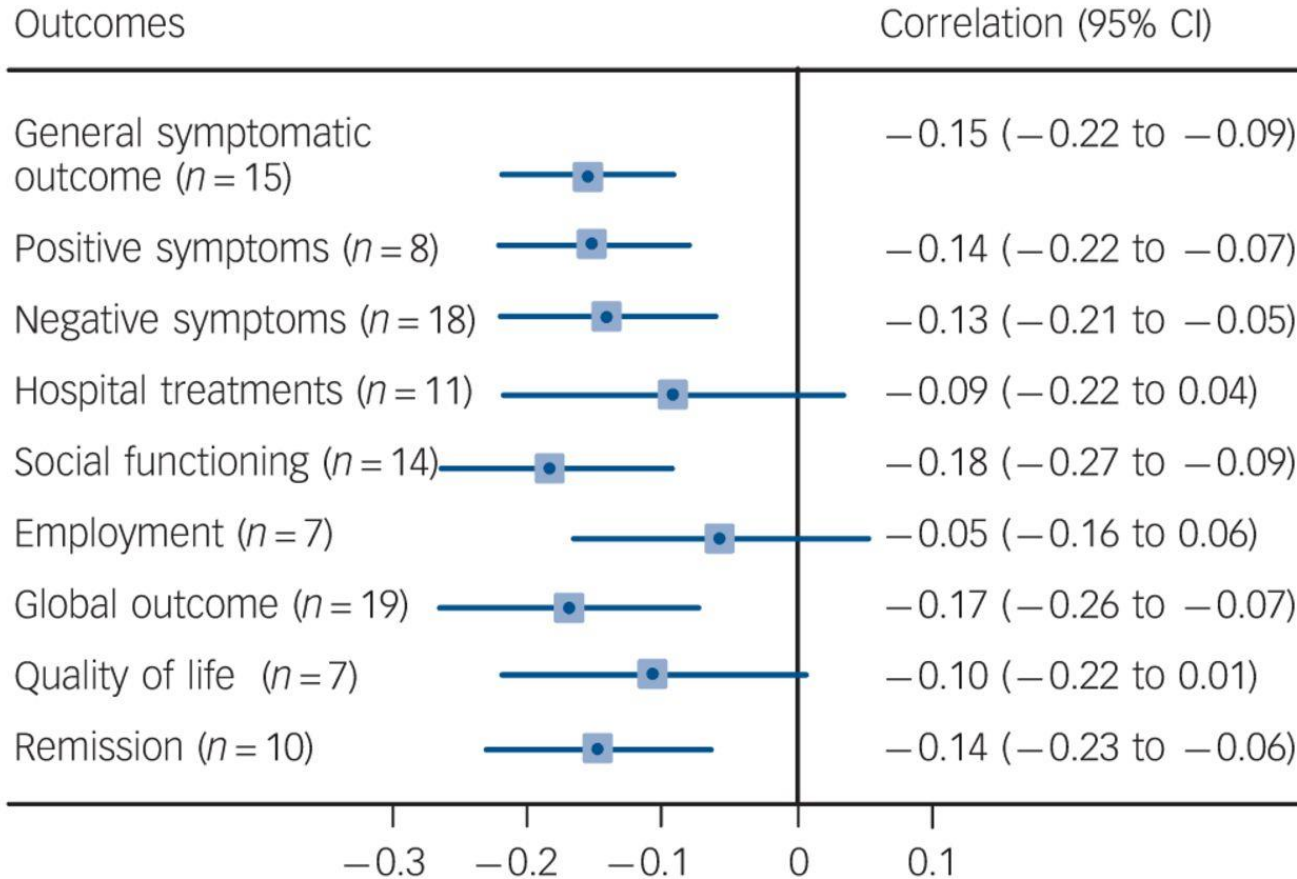
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DUP – longer term outcomes

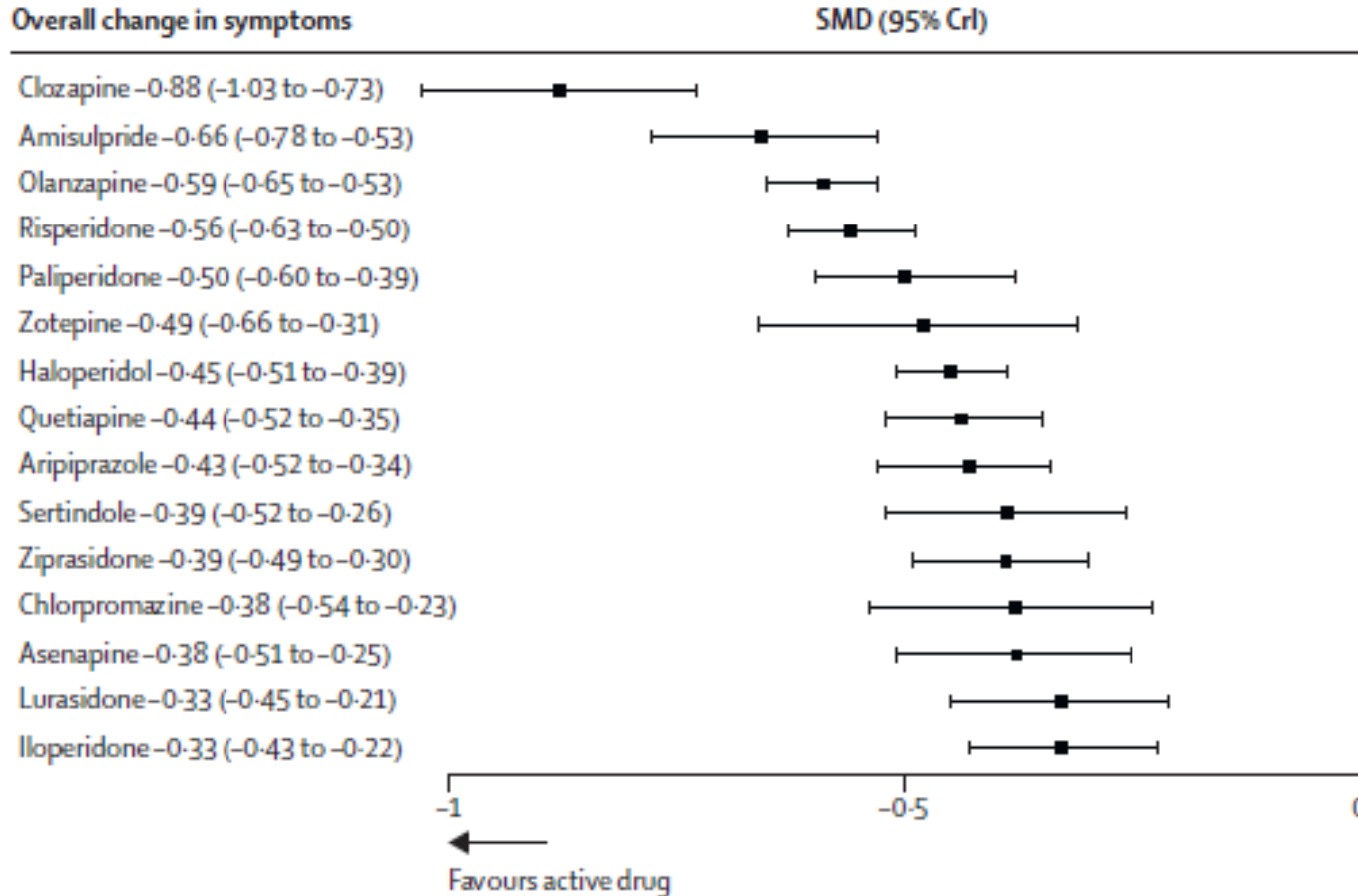


⁽⁹⁾
 From: Penttilä M et al. Duration of untreated psychosis as predictor of long-term outcome in schizophrenia: systematic review and meta-analysis *The British Journal of Psychiatry*, 2014, 205 (2) 88-94

Treatment resistance

- 1/5 - 1/3 continue to have psychotic symptoms despite antipsychotic treatment^{10,11}
- Clozapine only medication with evidence of efficacy in treatment resistance¹⁰

Efficacy of antipsychotics



(¹²) From: Leucht et al. Comparative efficacy and tolerability of 15 antipsychotic drugs in schizophrenia: a multiple-treatments meta-analysis. *Lancet* 2013; 382: 951–62.

Clozapine

- 60% show improvement with clozapine
- Can take 6-12 months (or much longer to stabilise)
- Prescription of clozapine is varied and underused
 - 1 study found mean no. antipsychotics before clozapine initiated = 9.2
 - In North West studies showed 16 – 34 fold variation in prescribing practice
- Adverse effects?

(Mistry et al¹³)

Physical Health

- Males with schizophrenia die 20 years earlier & females 15 years earlier than the general population
- Most premature deaths are due to physical disorders, including cardiovascular disorders, metabolic disorders (e.g. diabetes), COPD, cancers & infectious diseases.
- Diabetes – 2-3 x risk of general population, but often missed
- Other difficulties e.g. dental caries, sexual dysfunction, constipation and nocturnal enuresis also found

(NICE⁵)

Why?

- Under recognised & undertreated in primary care
- Nature of psychosis; insight
- Lifestyle choices
- Social stigma
- Stress/distress
- Side effects of treatment (antipsychotics → weight gain, diabetes, lipid abnormalities, galactorrhoea, tardive dyskinesia, prolonged QT)
- Attitudes of healthcare staff

(NICE⁵)

Suicide

- 1/5 of premature deaths from suicide and accidents⁵
- Lifetime risk of suicide in people with schizophrenia 4.9%¹⁴
- Only consistent protective factor - delivery of/adherence to effective treatment¹⁴

Risk factors for suicide in Schizophrenia

Risk factor	Strong association	Weak association
Demographic factors	Young, male, unemployed, higher levels of education	Single (not married), rural
Illness-related factors	Depression, hopelessness, negative self-thoughts, anxiety, insomnia, self-devaluation, low self-esteem, guilty, PTSD	Treatment (in particular, second-generation antipsychotic) may be a protective factor against suicide
	Increased positive symptoms (esp auditory hallucinations and delusions), low negative symptoms, higher level of mental suffering at baseline, mental disintegration, agitation/motor restlessness	Later age of onset Impact of duration of disease on suicide risk is inconclusive
	Presence of insight	
	Presence of physical illnesses	
Genetics	Positive family history	
Previous suicide attempt/ideation	Strong correlation with history of suicide attempt/ideation	
Substance abuse	Alcohol and drug abuse	Smoking
Life events		Potentially increased risk with history of increased childhood trauma

Questions or Comments?



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3. RCPsych. Schizophrenia. 2015. <http://www.rcpsych.ac.uk/healthadvice/problemsdisorders/schizophrenia.aspx>
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MCQs

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MCQs

1. The chemical structure of Olanzapine is:
 - A. Benzizoxazole
 - B. Dibenzothiazepine
 - C. Thienobenzodiazepine
 - D. Butyrophenone
 - E. Benzobutyramide

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MCQs

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MCQs

2. Which of the following genes are thought to be involved in the aetiology of Schizophrenia according to the current evidence?
 - A. COMT
 - B. DISC-1
 - C. DTNBP-1
 - D. GABRB-2
 - E. All of the above

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MCQs

2. Which of the following genes are thought to be involved in the aetiology of Schizophrenia according to the current evidence?
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MCQs

3. Which of the following is not a predictor of course and outcome in Schizophrenia?
- A. Sociodemographic status
 - B. Features of initial clinical state and treatment response
 - C. First rank symptoms at baseline
 - D. Family history of psychiatric disorders
 - E. Premorbid personality and functioning

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MCQs

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 - D. Family history of psychiatric disorders
 - E. Premorbid personality and functioning

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MCQs

4. Which of the following scales is the most appropriate for assessment of extra-pyramidal side effects of antipsychotics?
 - A. Barnes' scale
 - B. Brief Psychiatric Rating Scale
 - C. Simpson-Angus Scale
 - D. Positive and Negative Symptom Scale
 - E. Unified Parkinson's Disease Rating Scale

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MCQs

4. Which of the following scales is the most appropriate for assessment of extra-pyramidal side effects of antipsychotics?
- A. Barnes' scale
 - B. Brief Psychiatric Rating Scale
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 - D. Positive and Negative Symptom Scale
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MCQs

5. Who established antipsychotic effects of Chlorpromazine?
- A. John Cane and colleagues
 - B. Jean Delay and Pierre Deniker
 - C. Eugene Bleuler
 - D. John Cade
 - E. Arvid Carlsson

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MCQs

5. Who established antipsychotic effects of Chlorpromazine?
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Any Questions?

Thank you