Negative Symptoms of Schizophrenia: Treatments

Nowadays we tend to think of the various symptoms of schizophrenia as falling into two groups. There are the positive symptoms such as delusions and hallucinations and then there are the negative symptoms such as apathy, lethargy and social withdrawal. To understand more about how these symptoms affect people with schizophrenia take a look at our information sheet on understanding negative symptoms.

Without a doubt, the advent of the antipsychotic medicines in the 1950’s heralded a new era in the treatment of schizophrenia. About 70 – 80 % of people with schizophrenia who take antipsychotic medication will find that their positive symptoms such as delusions and hallucinations are reduced and in some cases they may disappear altogether.

The first generation of antipsychotics known as typical are very beneficial for the positive symptoms of schizophrenia but have no effect on negative symptoms.

The discovery of these drugs greatly changed the outlook for people diagnosed with schizophrenia. Before these drugs were introduced about 70% of people with schizophrenia in the UK were confined in mental hospitals, often for many years and sometimes for life. Today, only about 5% of people with schizophrenia are in hospital and the average length of stay is only a few months.

However, although antipsychotic medication is very effective against the positive symptoms such as hearing voices or paranoid thoughts, such an effective treatment for the negative symptoms sadly remains beyond our grasp. Despite much research work by scientists a really effective medication to treat negative symptoms still eludes us. Why this is so is unclear. It may be because the causes of the negative symptoms are more complex than the positive ones or that they are rooted as much in psychological factors as in chemical changes within the brain cells.

Over the years a number of possibilities for treating negative symptoms have been practiced or proposed although it has to be said that each has had varying degrees of success in practice.

Medication

Use of Antipsychotic Medication

Sometimes what is perceived by carers and doctors to be a negative symptom such as social withdrawal may actually be due to positive symptoms. For instance if a person living with schizophrenia believes that
they are being spied on and persecuted by MI5 then they may become reluctant to leave the house. This withdrawal could be interpreted by the doctors as negative symptoms but is in fact due to positive ones and in this case the correct choice of antipsychotic medication may well alleviate the withdrawal by reducing the delusions.

In other cases the reverse effect may be an issue. For instance if the antipsychotic chosen to treat positive symptoms causes side effects such as sedation then these problems may be misinterpreted as negative symptoms. In this case a change to a different antipsychotic or a reduction in the dose may be the way forward.

It is clear then that the correct choice of antipsychotic for the treatment of positive symptoms will have significant implications for the negative symptoms as well.

**Effects of the Atypical Antipsychotics**

In the 1980s the second generation of antipsychotics called atypicals such as olanzapine, risperidone and amisulpride were introduced and are now the drugs of first choice for doctors in the UK treating psychosis. At first it did seem that these new drugs were not only just as effective at treating the positive symptoms as the first generation but were also effective against negative symptoms as well. However it has to be said that, in the light of the evidence that has accumulated over the time these drugs have been in use, the jury is still out on this.

There was some early hope that the second generation of atypical antipsychotics would also have an effect on negative symptoms but the evidence is not conclusive now.

The weight of evidence is inconclusive with some studies finding little or no effect on negative symptoms and others finding that the atypicals are significantly better at treating the negative symptoms. Certainly if there is any beneficial effect from the atypicals on negative symptoms it is far less striking than their effect on positive symptoms.

That said it surely follows that negative symptoms derive at least to an extent from the assault on the psyche inherent in the positive symptoms and any medicine that is better at treating positive symptoms will in the long term be better for the negative ones as well. In addition some have argued that the benefit of the atypicals on negative symptoms does derive largely from the reduction in the adverse side effects
particularly sedation. The so-called third generation of antipsychotics such as aripiprazole are also said to have an effect on negative symptoms but it is rather too early to draw any firm conclusions.

Clozapine will be tried by doctors when other antipsychotics haven’t worked

**Clozapine**

Clozapine is an antipsychotic for which there have been many claims of a pronounced effect on entrenched negative symptoms. Clozapine was introduced in the 1970’s and is in a class of its own in many ways. It should be used when at least two other antipsychotics have been tried without success and has been found by many doctors to be effective against both positive and negative symptoms. Unfortunately the side effects are even more problematic with this drug as it has an adverse effect on the white blood cell count called neutropenia and its use involves regular blood testing.

In the UK guidelines for treatment of medical conditions, both mental and physical, are laid down by a body called the National Institute for Health and Care Excellence, colloquially known as NICE. Although the NICE guidelines for prescribing Clozapine are quite clear, some believe that doctors are in fact hesitant to use it and will try every other treatment option before resorting to Clozapine. In addition not all experts agree on its efficacy and Torrey in particular finds the evidence of an effect on negative symptoms less than convincing.

**Antidepressants**

Some practitioners have used antidepressants in the treatment of negative symptoms and have claimed some success when used in conjunction with antipsychotics. The antidepressants used are of the selective serotonin reuptake inhibitor (SSRI) type such as mirtazapine, fluvoxamine, citalopram and fluoxetine. In addition to their effectiveness in combating the depression they may also act to increase the blood levels
of the antipsychotic thus increasing their effectiveness\textsuperscript{11} and some believe that antidepressants not only help with the depressive symptoms but also with the negative symptoms as well\textsuperscript{13}.

However one problem here is that it is often difficult for the doctor to distinguish between the negative symptoms of schizophrenia and the symptoms of post-psychotic depression and it may be that in these studies some of the participants were in fact suffering from the latter rather than from true negative symptoms.

**Other Medication Approaches**

Some trials, particularly in the US, have been carried out with other types of medication including some treatments for Alzheimers and amphetamines but without any notable success.

**Psychosocial Treatments**

Psychosocial treatments are available in some areas. Supportive psychosocial therapy can help people with negative symptoms re-learn social skills by learning new thinking processes. This in turn can have a beneficial effect on self esteem and motivation and lead to better personal relationships with family and close friends.

Some types of talking therapies particularly a form called cognitive remediation therapy have been found to have a useful effect on negative symptoms. This therapy, which was designed specifically for people with schizophrenia, is intended to improve thinking skills and can be done on a computer\textsuperscript{8}.

**Art Therapy**

In 2009 NICE issued guidelines requiring health care providers to make arts therapy available for people with schizophrenia experiencing negative symptoms with three distinct aims. These aims are:

- enabling people with psychosis or schizophrenia to experience themselves differently and to develop new ways of relating to others
- helping people to express themselves and to organise their experience into a satisfying aesthetic form
- helping people to accept and understand feelings that may have emerged during the creative process (including, in some cases, how they came to have these feelings) at a pace suited to the person. [2009]
NICE guidelines recommend art therapy to help with negative symptoms but its benefits over other forms of useful occupation are far from proven. (Photo: VOA – A. Fortier on Wikimedia Commons)

Whilst much has been made of the success of arts therapy by its practitioners, there is inconclusive evidence as to its efficacy and some recent studies (notably the Matisse study) have found no benefit at all over other forms of useful occupation⁵.

![Art Therapy](https://via.placeholder.com/150)

Family therapy has been shown to be a useful add-on to medication in helping the family group to adjust to the sufferer’s needs.

**Family Therapy**

Family therapy is available in some areas and helps those close to the person with schizophrenia understand more about the negative symptoms, their causes and their effects on the person’s abilities. It is useful in helping to avoid angry confrontations and the equally harmful emotional distancing that can occur when someone is experiencing symptoms such as social withdrawal.

**Other Treatments**

**Dietary Supplements**

As with most other long term health conditions there have been theories around the efficacy of dietary supplements in treating the negative symptoms of schizophrenia. In particular some studies have found that supplementing diet with folate and vitamin B12 may be beneficial⁹. However it has to be said that whilst this may be a very promising avenue for future research there is currently no weight of evidence that dietary supplements can help and certainly prominent psychiatrists such as Torrey remain sceptical about the benefits of nutritional supplements¹².

**Self Help**

In the absence of really effective treatments for negative symptoms it is largely for the person living with schizophrenia who is experiencing negative symptoms to try to effect beneficial changes in their own life. Our information sheet on self help skills for negative symptoms gives some useful tips on this.
References


