Drugs used to relieve behavioural and psychological symptoms of dementia

People with dementia may at some point in their illness develop behavioural or psychological symptoms. While it is important to try to understand and address the underlying reasons for these problems, it may be necessary at times to prescribe medication. This sheet describes the different types of drugs that may be prescribed.

Can drugs help to relieve the behavioural and psychological symptoms of dementia?

People with dementia may at some point in their illness develop symptoms such as depression, anxiety, restlessness, sleep disturbance, aggressive behaviour, delusions or hallucinations. For behavioural symptoms such as restlessness or aggression, it is important to understand and address the underlying reasons for these problems. It may be necessary at times to prescribe medication if the symptoms are distressing, persistent and have not responded to psychosocial treatments. Other problems such as significant depression should be treated with medication.

When should drugs be used?

Drugs should be avoided unless they are really necessary. Before any of the drugs mentioned in this Update Sheet are prescribed it is essential to ensure that the person with dementia is physically healthy, comfortable and well cared for. Whenever possible, the person should be helped to lead an active life, with interesting and stimulating daily activities.

Behavioural and psychological symptoms of dementia can result from unrelieved pain, other illnesses or infections, problems with eyesight or hearing, drug side-effects and environmental factors such as changes to routine. It is important to address these factors in the first instance before resorting to medication. By minimising distress and agitation it is often possible to avoid the use of drugs altogether.

The treatment of depression is slightly different. Depression can have a major impact on the person’s functioning and quality of life. Mild depression can respond to psychological treatments, but more severe depression should usually be treated with antidepressant medication.

Taking drugs

If, after trying non-drug treatments, drugs are considered to be necessary remember:

- Drugs used for behavioural or psychological symptoms of dementia should complement not replace non-drug approaches.
- All drugs have potential side-effects, some of which may worsen dementia symptoms. It is important to weigh the potential benefits against the likelihood of side-effects when considering the use of medications.
- Always ask the prescribing doctor why the drug is being prescribed, what the side-effects might be and what you should do if they occur.
- Don’t assume that a drug that has proved to be useful at one time will continue to be effective. Dementia is a degenerative condition. The chemistry and structure of the brain will change during the course of the illness.
- Many people with dementia take a number of different medications. Certain combinations of drugs may counteract each other or act to make memory and thinking worse. Remind the doctor what other medications are being taken.
- Check with the prescribing doctor that there is a clear plan to review the effectiveness of the medication. There should be defined treatment goals and careful monitoring, and in some cases a clear timeline for stopping the drug.
- Drugs will be more effective if they are taken exactly as prescribed by the doctor, in the correct dose, and monitored regularly for effectiveness and side-effects.
- If symptoms are difficult to control, the GP may refer to a specialist for further advice.
Some drugs need to be taken regularly to have an effect – for example, antidepressants and antipsychotics are not helpful when given on an ‘as needed’ basis. Other drugs, such as hypnotics or anxiety-relieving drugs, may be more effective when taken as needed. Take drugs only as prescribed by the doctor.

Do not expect immediate results. Benefits may take several weeks to appear, particularly with antidepressants and antipsychotics.

Side-effects may occur early or late in the course of treatment – it is important that you ask the doctor what to expect.

Side-effects are often related to the dose given (higher doses are usually associated with a greater chance of side-effects). The doctor will usually start with a low dose and gradually increase the dose until the desired effects are achieved.

Once treatment has been established it is important that it is reviewed regularly. Take all medications to clinic and hospital appointments.

Names of drugs
All drugs have at least two names – a generic name, which identifies the active ingredient, and a brand name, which depends on the company that manufactured it. Generic names are used in this sheet. At the end you will find a list of drugs in common use, giving both the generic and some common brand names.

Treating restlessness, aggression and psychotic symptoms
Clinical guidelines for the treatment of behavioural problems in dementia state clearly that non-drug treatments should be tried before drugs, unless there is a severe and persistent risk of harm to the person with dementia or to others. Psychosocial interventions can be very beneficial and often prevent the need for drugs. There should be a detailed analysis of the problem and potential underlying causes. Therapies might include music or aromatherapy to calm the person, removing the triggers of unwanted behaviours, or psychological approaches such as reminiscence therapy.

Antipsychotic drugs
Antipsychotics are the most commonly used drugs for treating restlessness, aggression and psychotic symptoms (delusions, hallucinations or thought disorder) in people with dementia.

Clinical trials suggest that antipsychotics can reduce aggression and psychotic symptoms over a period of three months. However, there is no evidence that they improve restlessness or other non-aggressive behaviour problems. Longer-term clinical trials show limited benefits over longer periods. Antipsychotic drugs can be safely stopped after three months, with no worsening of behavioural symptoms in most people.

There are two types of antipsychotics – typical and atypical. The newer atypical antipsychotics are usually preferred as they are less likely to have significant side-effects. Drugs with the best evidence of effectiveness in dementia include risperidone and aripiprazole, although the latter is rarely used. Risperidone is the only drug licensed in Australia for the treatment of severe and persistent aggression or psychotic symptoms in people with dementia. For further information, see Dementia Q&A sheet 5 Risperidone for treatment of behavioural symptoms in dementia.

Side-effects
The side-effects of antipsychotics can include excessive sedation, dizziness, unsteadiness, ankle swelling and symptoms that resemble those of Parkinson’s disease (shakiness, slowness and stiffness of the limbs). More recently, there have been increasing concerns about the risk of serious side-effects for people with dementia including stroke and premature death. The risk of stroke or death is quite low over short periods of treatment (up to three months), but increases over longer periods of use.

Antipsychotics for people with Alzheimer’s disease, vascular dementia or mixed dementia who have mild to moderate behavioural or psychological symptoms are not recommended. People with dementia with Lewy bodies should also avoid antipsychotics due to the risk of increased problems with movement. Quetiapine, an atypical antipsychotic, may be better tolerated that risperidone in those with Lewy body disorders.

Treatment with antipsychotics should be regularly reviewed and the dose reduced or the drug withdrawn if side-effects become unacceptable. Excessive sedation with antipsychotics may reduce symptoms such as aggression at the expense of reducing mobility and worsening confusion.

Antipsychotics may be associated with faster decline in people with dementia, raising further concerns about the long-term use of these drugs.
Anticonvulsant and antidepressant drugs

Anticonvulsants, such as sodium valproate and carbamazepine, and antidepressants, such as citalopram, are sometimes prescribed to reduce aggression, agitation and restlessness in dementia. These drugs should not usually be combined with each other or with antipsychotics.

Alzheimer’s disease drugs

Clinical trial evidence suggests that the drug memantine, used to improve memory and functioning in people with moderate to severe Alzheimer’s disease, may also be effective in reducing aggression and agitation. Memantine has the advantage of being a treatment with a low risk of serious side effects. For further information, see Dementia Q&A sheet 3 Drug Treatments for Alzheimer’s Disease – Memantine.

Cholinesterase inhibitors, used to treat mild to moderately severe Alzheimer’s disease, appear to be an effective treatment for psychotic symptoms and apathy in people with dementia. Cholinesterase inhibitors may delay the onset of behavioural and psychiatric symptoms, but it is unclear whether they are a useful treatment once these symptoms occur. For further information about these drugs, see Dementia Q&A sheet 1 Drug Treatments for Alzheimer’s Disease – Cholinesterase Inhibitors.

Treating depression

Symptoms of depression are very common in dementia. In the early stages they can be a reaction to the person’s awareness of their diagnosis. Depression may also be the result of reduced chemical transmitter function in the brain. Non-drug interventions, such as an activity or exercise program or psychological treatments, can be very helpful, especially for mild depression. More severe depression should be treated with antidepressants, but care must be taken to ensure that this is done with the minimum risk of side-effects.

The role of antidepressants in the treatment of depression in people with dementia is still uncertain but may be useful for people with a history of depression.

Clinical trial evidence suggests that the newer antidepressants known as selective serotonin re-uptake inhibitors (SSRIs) and serotonin noradrenaline re-uptake inhibitors (SNRIs) can be effective treatments for people with dementia and depression, with a low risk of serious side-effects. The best evidence is for the SSRI drug citalopram. Antidepressants may be helpful not only in improving persistently low mood but also in controlling the irritability and rapid mood swings that often occur in dementia or following a stroke. Once started, the doctor will usually recommend taking antidepressant drugs for a period of at least six months. In order for them to be effective, it is important that they are taken regularly without missing any doses.

Improvement in mood typically takes two to three weeks or more to occur. Side-effects may appear within a few days of starting treatment.

Side-effects

Tricyclic antidepressants, an older type of drug for treating depression, are likely to increase confusion in someone with dementia. They might also cause a dry mouth, blurred vision, constipation, difficulty in urination (especially in men) and dizziness on standing, which may lead to falls and injuries. Newer antidepressants are therefore preferable for treating depression in dementia.

SSRIs such as fluoxetine, paroxetine, sertraline and citalopram, escitalopram and the SNRIs venlafaxine and desvenlafaxine do not have the side-effects of tricyclics and are well tolerated by older people. SSRIs can produce headaches and nausea, especially in the first week or two of treatment. Mirtazapine, duloxetine, agomelatine and vortioxetine are newer antidepressants in different classes that appear to be better tolerated than older ones, but there is only limited evidence of their effectiveness in those with dementia and depression.

Treating anxiety

Anxiety states, accompanied by panic attacks and fearfulness, may lead to demands including having constant company. Mild symptoms are often helped by reassurance, adjustments to the environment or an improved daily routine. For more persistent mild anxiety, psychological treatments can be helpful. More severe and persistent anxiety is often related to underlying depression and will usually improve with antidepressant treatments.

Antipsychotic drugs and another group of drugs called benzodiazepines are sometimes used to treat anxiety, but both should usually be avoided as a treatment for anxiety in people with dementia. The long term use of benzodiazepines is not recommended, but they may have a limited role in the short term treatment of restlessness in people with dementia.
Side-effects

There are many different benzodiazepines, some with a short duration of action, such as lorazepam and oxazepam, and some with longer action, such as diazepam. All of these drugs may cause excessive sedation, unsteadiness and a tendency to fall. They may also accentuate any confusion and memory deficits that are already present. They can also cause dependency and withdrawal symptoms when stopped.

Antipsychotics (see above) are sometimes used for severe or persistent anxiety, but should be avoided for this purpose in people with dementia. If taken for long periods, these drugs can produce tardive dyskinesia, which is recognised by persistent involuntary chewing movements and facial grimacing, in addition to the side-effects described above.

Treating sleep disturbance

Sleep disturbance, in particular persistent wakefulness and night-time restlessness, can be distressing for the person with dementia and for carers. Some of the drugs commonly prescribed for people with dementia can cause excessive sedation during the day, leading to an inability to sleep at night. Increased stimulation and activity during the day and avoiding caffeine late at night will help reduce sleep problems.

It is important to have realistic expectations about the duration of sleep. Older people often sleep for only five to six hours, and in people with dementia this will often be spread out over a full 24 hours. In residential facilities, the person’s care plan should meet these 24 hour needs and in most cases, this should be achieved without the use of medication. For people with dementia living at home, pressure on their carers or risks related to them getting up at night might necessitate the use of sleep-inducing medication (hypnotics).

If hypnotics are used, the newer ‘Z’ drugs such as zopiclone are an alternative to the older benzodiazepines such as temazepam have a similar risk of side-effects, but possibly fewer hangover effects in the morning, and are possibly less addictive than these older drugs. A slow release melatonin preparation, ‘Circadin’ can also be used and is possibly the safest of all the hypnotics. A sedative antidepressant can also be effective.

Hypnotics are generally more helpful in getting people off to sleep at bedtime than they are at keeping people asleep throughout the night. They are usually taken 30 to 60 minutes before going to bed.

Side-effects

If excessive sedation is given at bedtime, the person may be unable to wake to go to the toilet and incontinence may occur, sometimes for the first time. If the person does wake up during the night despite sedation, increased confusion and unsteadiness may occur.

Hypnotics are often best used intermittently, rather than regularly, when the carer and person with dementia feel that a good night’s sleep is necessary for either or both of them. The use of such drugs should be regularly reviewed by the doctor.

Commonly prescribed drugs

This list includes the names of many (but not all) of the different medications available. The generic name is given first, followed by some of the brand names.

**Antipsychotics**

- Amisulpride (Solian, Sulprix)
- Chlorpromazine (Largactil)
- Fluphenazine (Modecate)
- Haloperidol (Serenace)
- Olanzapine (Ozin ODT, Olanzacor, Lanzek, Zypine, Zyprexa)
- Quetiapine (Seroquel, Delucon, Kaptan, Quetia, Syquet)
- Risperidone (Risperdal, APO-Risperidone, Rispa, Rixadone, Ozidal)
- Trifluoperazine (Stelazine)

**Antidepressants**

- Agomelatine (Valdoxan)
- Amitriptyline (Endep)
- Aripiprazole (Abilify)
- Citalopram (Celapram, Celica, Talam, Ciazil, Cipramil)
- Desvenlafaxine (Desfax, Pristiq)
- Dothiepin (Prothiaden, Dothep)
- Doxepin (Sinequan, Silenor, Depran)
- Duloxetine (Andepra, Coperin, Deotine, Depreta, Drulox, Cymbalta)
- Escitalopram (Cilopam, Escicor, Esipram, Lexam, Lexapro)
- Fluoxetine (Zactin, Lovan, Fluohexal, Prozac)
- Fluvoxamine (Faverin, Movax, Luvox, Voxam)
- Imipramine (Tofranil, Tolerade)
- Mirtazipine (Mirtazon, Avanza, Axit, Remeron, Zispin)
- Nortriptiline (Allegron)
- Paroxetine (Paxtine, Extine, Roxet, Aropax)
Reboxetine (Edronax)
Sertraline (Xydep, Eleva, Zoloft)
Venlafaxine (Altven, Efexor, Elaxine, Enlafax)
Vortioxetine (Trintellix)

**Anxiolytics (anxiety relieving drugs)**
Alprazolam (Kalma, Alprax, Xanax)
Diazepam (Antenex, Valpam, Ranzepam, Valium)
Oxazepam (Alepam, Serepax, Murelax)

**Hypnotics**
Nitrazepam (Alodorm, Mogadon)
Temazepam (Temtabs, Temaze, Normison)
Zopiclone (Imrest, Imovane)

**Alzheimer’s disease drugs**
Donepezil (Aricept, Arazil, Aridon)
Rivastigmine (Exelon)
Galantamine (Reminyl, Galantyl, Gamine)
Memantine (Ebixa, Memanza)

**Anticonvulsant drugs**
Carbamazepine (Teril, Tegretol)
Valproate (Valpro, Valprease, Epilim)

**What questions should you ask your doctor about any drug being prescribed?**
- What are the potential benefits of taking this drug?
- How long before improvement may be noticed?
- What action should be taken if a dose is missed?
- What are the known side-effects?
- If there are side-effects, should the dosage be reduced or should the drug be stopped?
- If the drug is stopped suddenly, what happens?
- What other drugs (prescription and over the counter) might interact with the medication?
- How might this drug affect other medical conditions?
- Are there any changes that should be reported immediately?
- How often will a visit to the doctor be needed?
- Is the drug available at a subsidised rate?

**References**


**FURTHER INFORMATION**
Dementia Australia offers support, information, education and counselling. Contact the National Dementia Helpline on 1800 100 500, or visit our website at dementia.org.au

For language assistance phone the Translating and Interpreting Service on 131 450

*This sheet is provided for your information only and does not represent an endorsement of any drug by Dementia Australia.*

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