Dementia in children, teenagers and young adults
A guide for parents, teachers and care professionals

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Introduction

Dementia is something that is usually associated with older people. However, children, teenagers and young adults can experience dementia as a result of a number of rare diseases and conditions. Niemann-Pick Disease Type C (NPC) is an example of one of these diseases, and one of its main symptoms is dementia¹.

Dementia is characterised by the loss of mental abilities such as thinking, remembering and reasoning. In most cases, the symptoms progress gradually, often over a period of several years. The early signs, usually memory problems, are normally subtle and may not be immediately obvious.

### Could this be dementia?

- Learning difficulties
- Unusual behaviour
- Poor concentration
- Anger
- Mood swings
- Confusion
- Memory loss
- Asking repetitive questions

The symptoms of dementia can vary greatly, but they often include one or more of the following:

#### Problems with memory

Normally, recent memories are affected first, with memories of more distant events only affected once the dementia becomes more developed. In children this often manifests as a slowing of learning and an inability to remember things they are taught. If their toys are put away in cupboards then they may not remember where they are. Older children may ‘lose’ their belongings or, when in school, forget which class to go to next. As the dementia progresses, memory loss may affect memories of recent events so completely that the person appears to be living in the past. The person may forget the names of people they know well, or forget where they live.

¹Standardised neurological testing demonstrated that most (twelve out of fourteen) patients with NPC disease met the criteria for a diagnosis of dementia at entry into a therapeutic trial (Hinton et al, 2005)
**Problems with speech and language**

The person may forget simple words or use the wrong words without noticing. They may repeat what you say (echolalia) and their speech may become slow or slurred and difficult to understand. Their conversation may become simplified, repetitive or irrelevant.

**Confusion**

The person may become confused in new surroundings or by new people. They may get muddled about who or where they are. Children and young adults with NPC do not like change. They may lose track of time and be unsure about what day it is, or even whether it is morning or afternoon. They may not remember that they have just eaten a meal.

**Changes in mood or behaviour**

The person may become irritable or aggressive. They may laugh inappropriately at something sad. As the dementia progresses they may lose their normal inhibitions and begin to say or do inappropriate or antisocial things. In some cases this can include inappropriate sexual behaviour and loss of inhibitions which can put them at risk. They may lose interest in the outside world or their own care, paying little attention to personal hygiene and forgetting to wash or change their clothes.

**Difficulty performing simple tasks**

The person may have difficulty doing everyday tasks such as dressing. They may begin a task and then wander away, forgetting what they were doing.

**Problems learning new information, ideas or skills**

Although it would be wrong to say that they cannot learn new things, it can become difficult and lots of repetition will be needed.

Some types of dementia can cause less common symptoms including:

- hallucinations
- obsessive or repetitive behaviour
- the belief that the person has done or experienced things that never happened (confabulation)
- disturbed sleep, or sleeping in the daytime and being awake at night
- depression
• physical deterioration including loss of appetite, loss of weight and increased vulnerability to infection
• incontinence

If the dementia becomes severe, it can cause other symptoms including:

• difficulty swallowing
• difficulty changing position or moving from place to place without assistance
• complete loss of short-term and long-term memory

Sometimes, those with dementia are unaware that they have any symptoms, especially symptoms that affect behaviour.

**Loss of short-term memory**

You may find that a child with dementia begins to lose their sense of time quite quickly. They may find it hard to judge how much time has passed because they can’t remember what they have done or what they are going to do that day.

Try to keep to a regular routine. Tactful reminders of what day and time it is, and what you are going to do next, may help. Make simple activity lists and use labels such as ‘Ann’s coat’ and signs such as ‘Do you have your money?’ where they can see them before leaving home. At school, symbols representing particular lessons can be stuck on timetables and books.

Losing memories means that the person loses their day-to-day connections with some people around them, along with their links to the recent past. The distant past may be mistaken for the present.

It can be puzzling for parents when their child can remember what they did and who they knew years ago, but can’t remember the previous day’s events. Using a diary with pictures can be a useful way of going over events that have taken place recently. It is difficult for the child to remember what they have done in school and to tell their teachers what has happened at home. Parents can feel out of touch and will need to establish more formal methods of communication with teachers. A home/school diary which can be filled in on a daily basis can be helpful. Again, pictures are very beneficial and a cheap digital camera can be usefully employed between home and school.

Loss of short-term memory can lead to confusion and conflict, for instance if the person misplaces objects and blames others. They may not be able to make sense of some situations.

*Short-term memory loss is very upsetting. We find ourselves making plans for future events thinking we have given her something to look forward to, only to find that she doesn’t remember.*
Managing short-term memory loss

- leave everyday objects in familiar places where they can be seen
- try to keep the environment tidy and calm
- try reinforcing a concept by repeating the same ideas in different ways
- label all possessions with the child’s name; they may not recognise new things as belonging to them
- a watch with an alarm reminder can be helpful, as can a small, simple digital voice recorder

Teachers and carers who don’t understand or recognise the child’s short-term memory loss often feel they are being naughty and just refusing to do tasks. This may lead to the child being reprimanded and then becoming withdrawn.

Our son R would get As and Bs [good grades] up until the middle of the 5th grade and it was a fast decline. The teacher would work so hard with R on one maths problem all day and the next day R wouldn’t have a clue what she was talking about. The next year R was placed in a special class.

He was given work that we knew he could do and he was still given As and Bs. R loved school, he loved his teachers, but when the dementia first showed up we did think he was playing around until R got mad at himself and said “What’s wrong with me?” Music did not seem to be a problem. R lost most of his short-term memory. (NPC)

Confusion

A was diagnosed at the age of six. One thing I remember was that before the dementia kicked in we could give him laundry or groceries to put away for us. One day on my return from the grocery I asked him to bring a 12-pack of toilet tissue into my room (I would put the rolls away later). When I later went into my room, I couldn’t find the pack anywhere! I wondered, how can you hide a 12-pack of toilet tissue? I searched in my bathroom, under my bed, in my wardrobe, yet no luck. I asked A and he couldn’t remember. Finally, I found it in his wardrobe. He was obviously confused when given my instructions.

I remember once asking him to put away a pair of his socks. He walked into his bedroom, and just stared at the furniture, not sure what he was supposed to do with the socks in his hand.
The need for routine

For our youngest child, A, the only clear recollection I have of her dementia is when we moved the living room furniture around for Christmas one year. In order to plug in the tree lights, we needed our end table at the opposite end of the room, near a socket. Inside this table was her nebuliser for her daily breathing treatments (she also had cystic fibrosis). Each day, she would go and get her nebuliser cup for either me or my husband to fill with her medicine. After the furniture was moved, she repeatedly went to where this table used to be, even after we repeatedly showed her its new place. As soon as our tree came down, we moved the table back to its original location, yet by this point she no longer understood our instruction to get her cup. I, of course, regret having moved the end table, but our children loved the tree lights. It was a no-win situation.

Unusual behaviour

If you are caring for a child with dementia, you may sometimes find their behaviour confusing, irritating or difficult to deal with. This can leave you feeling stressed, irritable or helpless. By learning to understand the meaning behind their actions, you will find it easier to stay calm and deal effectively with the challenges that arise. Try to remember that your child is not being deliberately difficult. Ask yourself whether their behaviour is really a problem.

When B was 13 years old, she started pinching everybody – her assistants at school, her teachers, other kids, mum and her home carer, Izabela. Sometimes it would really hurt, especially when her nails would need cutting. Well, one day, her home carer Izabela and I (mum) took her to a doctor for a check up and she kept pointing to Izabela and said with a big frown on her face – “I don’t like her – she pinches me all the time”. Izabela was so embarrassed and shocked that B should accuse her of that, she exclaimed “Oh my gosh – I never pinch you”, and then all three of us could not hide our laughter. A few minutes before that happened she was giving Izabela lots of kisses and hugs. The doctor explained that sometimes the way they see things can be reversed. While B was actually the one doing the pinching, she envisioned it was Izabela or others pinching her.
What do we mean by ‘unusual behaviour’?

- repetitive questioning, actions or movements
- trailing the carer around the house
- hiding and losing things
- shouting and screaming
- restlessness
- night-time waking

There was one night she woke up screaming at the top of her lungs. I’d never heard her scream before. Both her carer and I ran into her room to see what had happened. It was the middle of the night. She was pointing to the poster on the wall of two kittens that were so cute. It had been given to her by some teachers in her prior school as she seemed to like looking at that picture on the school wall. She just kept saying “They’re laughing at me”. I said, “Who’s laughing at you?”. She pointed to the two kittens on the poster. I asked her if she would like me to take it down. Would that make her okay? She said “Yes”. Then she climbed back into bed as if nothing had happened and smiled before falling back to sleep.

How to cope

- try to put yourself in your child’s situation. Imagine how they might be feeling and what they might be trying to express
- think ahead and plan for situations that could cause problematic behaviour
- explain the situation to friends and neighbours so they will understand changes in behaviour
- offer as much reassurance as you can by touching and holding
- distract them with calming activities such as playing their favourite music
- try to make sure that you have support for yourself and breaks when you need them

If you find your child’s behaviour really difficult to deal with, ask for advice from professionals or other carers before you become too stressed.

Loss of inhibitions

A child with dementia may behave in a way that other people find embarrassing because of their memory loss and general confusion. Try to react calmly.
L can be indiscreet. She will sometimes enter a room with her trousers undone after going to the toilet … or on occasions walk about forgetting she has not got a top or bra on.

Ways of helping and strategies for coping

At home

Try to establish a regular routine. This will help your child feel more secure and make it easier for them to remember what happens during the course of the day.

- help the child by using visual clues such as labels on doors, cupboards and drawers
- try to structure the day so that where possible activities usually happen in the same order
- if speech is a problem, make use of body language. Simplify sentences and instructions, listen carefully and give plenty of time for the child to respond
- leave things that they need in the same place, so they can easily be found
- help your child to continue doing things for themselves by using frequent reminders and doing things ‘with’ them rather than ‘for’ them
- memory aids can be useful, such as a picture passport or diary
- give plenty of encouragement. Be patient, and allow your child to do things at their own pace
- try to avoid confrontation. Distract, don’t argue

It is often difficult for parents not to try to correct seemingly ‘bad’ behaviour. When a child has dementia due to a life-limiting condition, they are unlikely to benefit from a scolding. They simply won’t remember and you will be left feeling guilty. It is far better to avoid confrontation if you can, and find creative ways of distracting them that work for you and your child.
Children with dementia may remember things that happened some time ago, but not what happened just a few minutes earlier. Offer simple choices and phrase questions so that they only need a ‘yes’ or ‘no’ answer. Safe, simple activities that involve repetition can be beneficial and fun, such as singing favourite songs, looking at family photographs or reading their favourite book. Don’t underestimate the power of laughter and fun!

**At school**

Teaching staff should be kept well informed about your child’s needs. Their symptoms should be explained to them so they appreciate that behaviour associated with dementia is different from bad or disobedient behaviour.

**Out and about**

- meeting other children and getting out and about will enable the child with dementia to maintain their social skills for longer. It can also help to counteract the apathy and withdrawal so common in dementia. However, remember that the child will need plenty of individual attention at social gatherings or on outings
- do not ‘negotiate’ an outing or ask “Are you ready to go out?”. Instead, use statements such as “Here’s your coat”, “Let’s go”, and “We’re getting into the car now”
- reassure the child
- plan your route as carefully as possible, paying attention to parking, toilets, lifts and other details
- leave plenty of time so you do not have to rush
- bring items, such as snacks or books, to occupy the child if you need to wait somewhere
- encourage the child to take a pride in their appearance so that they feel more confident. Helping them to get dressed up before they go out or before visitors come can make it more of an occasion
- look for activities that are stimulating but that don’t involve too many challenges or choices. Children with dementia can find it difficult to process too many options
- it is important to maintain a sense of humour, so look for activities that you will both find entertaining. Having a good laugh will do you both good!
- dementia often affects a child’s concentration, meaning they can’t focus on what they are doing for very long. They may need to do activities in short bursts

**Further reading and reference**


*The cognitive phenotypes of Niemann-Pick type C disease: neuropsychological characteristics of patients at baseline in a clinical trial with oral miglustat* (poster), Veronica Hinton, Darleen Vecchio, Helena Prady, Ed Wraith and Marc Patterson (2005)
## Useful contacts

<table>
<thead>
<tr>
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<th>Batten Disease Family Association</th>
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<tbody>
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<th>Society for Mucopolysaccharide Diseases</th>
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