

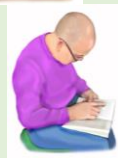
After a **stroke**, some people have **difficulty with language**

This might affect...

everyday communication



Speaking and **understanding speech**



reading and writing



This is called **aphasia**

Aphasia is **different for everyone**

The **pattern** of difficulty is different

And the **severity** is different



Researchers have looked at **evidence** - what we know about aphasia

They collected **information from lots of research** projects

They put this together in a **database**

A database is a way of **storing** and **sorting information**

First Name	Last Name	Age	Gender	Stroke Date	Stroke Type	Stroke Location	Stroke Severity	Stroke Treatment	Stroke Outcome	Stroke Notes
John	Smith	65	Male	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
Jane	Smith	65	Female	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
John	Smith	65	Male	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
Jane	Smith	65	Female	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
John	Smith	65	Male	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
Jane	Smith	65	Female	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
John	Smith	65	Male	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
Jane	Smith	65	Female	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
John	Smith	65	Male	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...
Jane	Smith	65	Female	2010-01-15	Ischemic	Left Hemisphere	Mild	Medication	Good	...

This database contains information about **5928 people** who had aphasia after a stroke

The researchers also looked at **what speech and language therapy they received**





The researchers wanted to **answer some questions** such as....



How much speech and language therapy
is linked with the best results?



Should therapy be different for



a **man**



or a **woman?**



younger



or **older?**



milder aphasia or

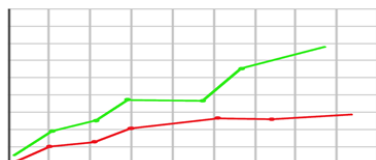


more severe aphasia

if the aphasia is **recent**



or has been there for **longer**



What predicts recovery from aphasia?



The researchers found **links** between what **speech and language therapy** people had, and **their recovery**

Most people with aphasia
don't get a lot of therapy
This can affect recovery

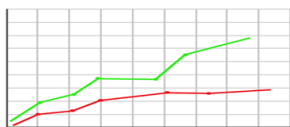
This project



was called **RELEASE**

How much speech and language therapy do people need
and **when** should it happen?

Here is what the researchers found –



Most language recovery was linked with...



20-50 hours of speech and language therapy in **total**



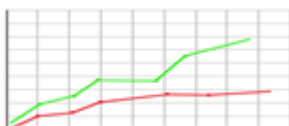
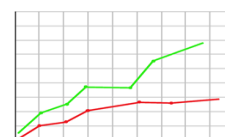
2-4 hours a week for general language improvement



4-5 times a week of therapy is best



People **improved more** if they **practiced their therapy tasks at home**



Most **improvement in understanding** other people's speech was linked with....



more than 9 hours therapy a week



Understanding did **not improve** when linked to **less than 3 hours a week**

or **less than 20 hours** in total

Should speech and language therapy be different **for**
different groups of people with aphasia

Here is what the researchers found -

Mostly **people were similar** in what they need for the best recovery

However, for some people, their best recovery may be linked
with **more speech and language therapy** a week –



younger adults



men



people with **milder aphasia**



people who have had aphasia for
more than 3 months.

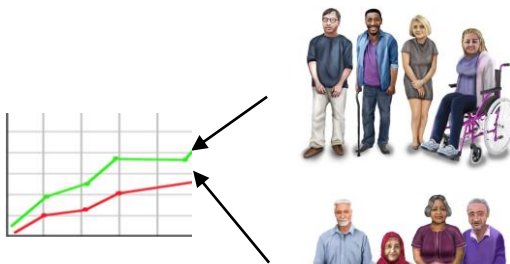
This therapy could be **more hours,** **more intensively,** or **more often**



What predicts recovery from aphasia?

Do we know who is likely to improve the most?

Here is what the researchers found -



Younger people (under 55) with stroke improve the most with therapy



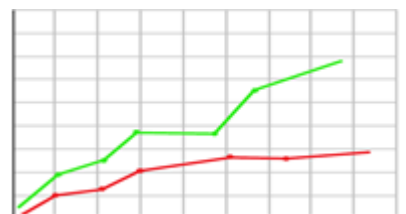
However, **older people can still improve** with therapy **(even over 75)**



People who start speech and language therapy **within a month** will recover most



However, people who had their **stroke over 6 months ago, can still improve** with therapy



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