

## Cognitive impairment and medication adherence after stroke:

A review of the evidence

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### Executive summary

Taking, or adhering to, prescribed medications is important after a stroke. Medications are used to control cardiovascular risk factors, such as high blood pressure and high cholesterol. Controlling these risk factors can reduce the risk of having a second stroke, and could also reduce the risk of developing cognitive impairment. Cognitive impairment is common after stroke and can affect ability to take medications as prescribed. Little research to date has explored the link between cognitive impairment and medication adherence after stroke. This review found nine studies that reported on the relationship between cognitive impairment and medication adherence, with contradictory results. When all nine studies were combined, there was no overall association between cognitive impairment and adherence. However, the nine studies differed greatly in how they defined and measured cognitive impairment and medication adherence. The overall quality of the evidence was low, with more research needed to fully understand the potential link between cognitive impairment and medication adherence after stroke.

#### Medication adherence

The extent to which medications are taken as recommended

#### Cognitive impairment

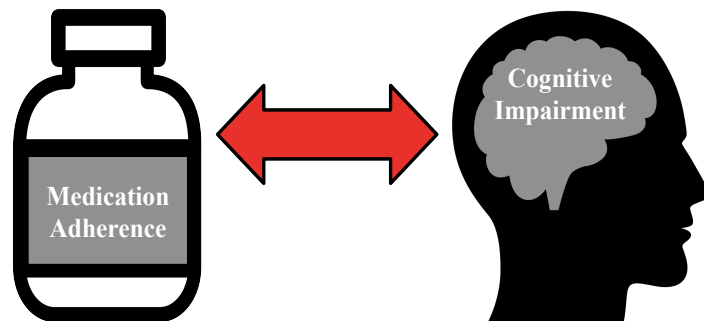
Difficulties with memory, concentration, attention, and learning

#### Cardiovascular

The heart and blood vessels, including blood vessels in the brain

### Introduction

Cognitive impairment is common following stroke. Cardiovascular risk factors such as high blood pressure, high cholesterol and atrial fibrillation (an irregular heartbeat) increase the risk of having another stroke. These risk factors can also increase the likelihood of developing cognitive impairment. Taking medications to control these risk



factors could therefore reduce the risk of having another stroke, as well as the risk of experiencing cognitive impairment. However, many patients do not take or adhere to their medications as prescribed. Taking medications may be challenging for people with cognitive impairment. This study reviewed the evidence on the link between cognitive impairment and adherence to medications in people with stroke.

### Methods

We carried out a systematic review of published research studies that looked at the association between cognitive impairment and medication adherence in people who have had a stroke.

