

# Repeatedly missing GP appointments may indicate greater risk of death from all causes

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Repeatedly missing general practice (GP) appointments may be a risk marker for all-cause mortality, particularly in patients with mental health conditions, new research published in the open access journal *BMC Medicine* suggests. Although further research is needed to better understand the relationship between missed appointments and mortality, the authors suggest that general practices and other services within the UK National Health Service (NHS) may need to consider how to best engage with patients who repeatedly miss appointments.

Researchers at the Universities of Glasgow, Aberdeen and Lancaster found that the more long-term conditions (LTC) a person had, the more likely they were to miss [appointments](#). Of the 824,374 [patients](#) whose data were examined in this study, 59% had one or more LTC, while 13.3% had four or more. Patients with no LTCs were less likely to miss GP appointments than patients with LTCs. Out of the 439,592 patients who did not miss any GP appointments over a three-year period 51.5% had no LTCs, whereas 41.6% had one to three LTCs and 7% had four LTCs. Out of 59,340 patients who missed three or more appointments per year over the same three-year period, 40.1% had four or more LTCs, 50.1% had one to three LTCs, and 9.8% had no LTCs.

Mental-health-based LTCs were found to be associated with a higher risk of missing appointments than physical LTCs. One to three mental health comorbidities were associated with a 30% higher risk of missing appointments compared to those who had no LTCs, and patients with four or more mental health LTCs were twice as likely to miss appointments. Patients with one to three physical morbidities were 16% more likely to miss appointments than those with no LTCs, whereas those with four or more physical LTCs were at 38% higher risk of missing appointments.

Dr. Ross McQueenie, the corresponding author of

the study, said: "Patients with a higher number of missed appointments were also at greater risk of death within the following year. Those with long-term physical conditions who missed two or more appointments per year had a threefold increase in all-cause mortality compared with those who missed no appointments. Patients with only [mental health conditions](#) who missed more than two appointments per year had an eightfold increase in all-cause mortality compared with those who missed no appointments. Patients diagnosed with long-term mental health problems, who died during the follow-up period, were more likely to die prematurely, often as a result of external factors such as suicide, rather than of natural causes."

The authors used a large Scottish primary healthcare appointment dataset, collected from 136 general practices from 11 Scottish [health](#) boards between 2013 and 2016, resulting in a cohort of 11.5 million appointments from 824,374 patients. The authors linked that data to the Scottish death registry to examine the association between missed appointments and mortality.

The observational nature of this study does not allow for conclusions about cause and effect. The authors note that it is unlikely that the relationship between missed appointments and mortality is directly causal; one possible mechanism mediating that relationship involves conditions associated with [cognitive impairment](#), such as dementia or problem alcohol and drug use. These [conditions](#) are also associated with an increased risk of missing appointments, as well as with increased [mortality](#).

**More information:** Ross McQueenie et al, Morbidity, mortality and missed appointments in healthcare: a national retrospective data linkage study, *BMC Medicine* (2019). [DOI: 10.1186/s12916-018-1234-0](#)

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