## Prepare now for a winter COVID-19 peak

The Academy of Medical Sciences Tuesday 14th July 2020

The UK must prepare now for a potential new wave of coronavirus infections this winter that could be more serious than the first says a new report from the Academy of Medical Sciences released today (Tuesday 14 July).

Combined with the disruption already created in the health service by COVID-19, a backlog of patients needing NHS assessment and treatment, and the possibility of a flu epidemic, this poses a serious risk to health in the UK.

These new pressures are in addition to the challenge winter usually presents to the NHS, when other infectious diseases are more common and conditions such as asthma, heart attack, chronic obstructive pulmonary disease and stroke tend to worsen.

The 'Preparing for a challenging winter 2020/21' report stresses that 'intense preparation' is urgently needed throughout the rest of July and August to reduce the risk of the health service being overwhelmed and to save lives this winter. This includes:

Minimising transmission of coronavirus in the community, with a public information campaign for all, as well as advice tailored to individuals and communities at high risk.

Reorganising health and social care staff and facilities to maintain COVID-19 and COVID-19-free zones, and ensure there is adequate PPE, testing and system-wide infection-control measures to minimise transmission in hospitals and care homes.

Increasing capacity of the test, trace and isolate programme to cope with the overlapping symptoms of COVID-19, flu and other winter infections.

Establishing a comprehensive, near-real-time, population-wide surveillance system to monitor and manage a winter wave.

Guarding against the worst effects of flu with a concerted effort to get people at risk, and health and care workers safely vaccinated.

The Academy has also released a 'Peoples perspective' report, written by patients and carers that calls for these actions to be developed through engagement with patients, carers and the public to ensure services, guidelines and communications work for people, rather than focusing plans on individual medical conditions.

Research suggests that COVID-19 is more likely to spread in winter with people spending more time indoors and the virus able to survive longer in colder, darker winter conditions.

The report notes there is a high degree of uncertainty about how the COVID-19 epidemic will evolve in the UK over the coming months, but suggests a 'reasonable worst-case scenario' to prepare for is one where the average number of people that one infected person will pass the virus on to (R t value) rises to 1.7 from September 2020 onwards.

Modelling of this scenario suggests there would be a peak in hospital admissions and deaths in January and February 2021 similar to or worse than the first wave in spring 2020, coinciding with a period of peak demand on the NHS. It estimates the number of COVID-19-related hospital deaths (excluding care homes) between September 2020 and June 2021 could be as high as 119,900. However, these figures do not take account of the fact that Government would act to reduce the transmission rate, or the recent results from a trial to treat patients in intensive care with the steroid dexamethasone, which could substantially reduce death rates.

Professor Stephen Holgate FMedSci, a respiratory specialist from University Hospital Southampton NHS Foundation Trust, who chaired the report, said: "This is not a prediction, but it is a possibility. The modelling suggests that deaths could be higher with a new wave of COVID-19 this winter, but the risk of this happening could be reduced if we take action immediately."

"With relatively low numbers of COVID-19 cases at the moment, this is a critical window of opportunity to help us prepare for the worst that winter can throw at us."

An advisory group of 37 experts were rapidly assembled to create the report following a request by the Government's Chief Scientific Advisor. The report was guided by a patient and carer reference group that provided information and advice on the key issues for those who would be most affected by a bad winter.

The Academy also commissioned Ipsos MORI to run online workshops with the general public, people who have been advised to 'shield' and those from black, Asian and minority ethnic backgrounds to understand how they think and feel about the problems expected this winter.

These revealed a limited level of understanding about what winter might mean in terms of a resurgence of coronavirus. There was also a strong association between winter and the Christmas/New Year period, meaning that people were not necessarily thinking about a winter period that could stretch until the end of March 2021. Any public engagement about the preparations needed for the winter period would need to take this into account.

Mandy Rudczenko from Leicestershire is a co-chair of the patient and carer reference group. She has experience of caring for a family member and has been involved in a variety of co-production projects in health and social care. She said: "COVID-19 has changed pretty much everything for those living with long term conditions, and for their families and carers.

"How we cope with future unpredictable demands on our health and social care system will have an impact on everybody's quality of life. There is a danger that what matters to people will be second guessed, jeopardising crucial decisions about health and care. The stakes are too high for that.

"Involve us now in managing the winter challenges, or we may create a burden of health problems which will last for decades."

The report highlights the backlog of patient needs created by halting non-urgent appointments and procedures during the first wave of the COVID-19 pandemic, with an overall waiting list that could stand at ten million by the end of this year.

It also explains that the NHS is still severely disrupted by the pandemic, with staff and facilities redeployed to cope with the first wave, and notes that measures put in place to prevent the transmission of COVID-19 also reduced NHS capacity. The extra pressures of winter will mean a similar reorganisation will not be possible.

Professor Dame Anne Johnson FMedSci was on the expert group for the project and is the Academy of Medical Sciences' Vice President (International), she said: "Every winter we see an increase in the number of people admitted to hospital and in the number of people dying in the UK. This is due to a combination of seasonal infections such as flu, and the effects of colder weather, for example, on heart and lung conditions.

"This winter we have to factor in the likelihood of another wave of coronavirus infections and the ongoing impacts of the first wave. We have to be prepared that we might also experience a flu epidemic this year.

"Faced with these potential challenges, and after an already tough year, it would be easy to feel hopeless and powerless. But this report shows that we can act now to change things for the better. We need to minimise coronavirus and flu transmission everywhere, and especially in hospitals and care homes. We need to get our health and social care, and the track, trace and isolate programme ready for winter. This can be done, but it must be done now." For more information please contact: Kerry Noble, +44 7446 869 433, Link: Kerry.Noble@acmedsci.ac.uk Claire Bithell, +44 7969 082520

## Notes to editors:

The patient and carer reference group provided information and advice on the issues most important to those who would be most affected by a bad winter. The two co-chairs of this group sat on the Academy's Expert Advisory Group to feed patient and carer perspectives into their discussion and final advice.

Ipsos MORI held three three-hour online workshops conducted with members of the public, with individuals who had received shielding letters or were caring for someone who had received one, and with individuals from black, Asian and minority ethnic groups to understand their views and priorities for the UK in coping with a possible resurgence of COVID-19 over the winter of 2020-2021. Between 30 June and 2 July, 36 people took part in these workshops (12 people per group). A full report of the workshops is available at:

Link: www.acmedsci.ac.uk/coronavirus-winter-challenges-public-dialogue

The project was part funded by a core grant from the Department for Business, Energy and Industrial Strategy (BEIS) but was carried out independently of Government.

A full list of the Expert Advisory Group and a full list of the members of the patient and carer reference group are at:

www.acmedsci.ac.uk/coronavirus-preparing-for-challenges-this-winter

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