Cold Weather Plan for England 2013

Protecting health and reducing harm from cold weather
About Public Health England

Public Health England’s mission is to protect and improve the nation’s health and to address inequalities through working with national and local government, the NHS, industry and the voluntary and community sector. PHE is an operationally autonomous executive agency of the Department of Health.
Foreword

The publication of the first Cold Weather Plan for England in 2011 marked a milestone for public health in this country. Cold kills. The impact of cold weather on health has been recognised. There are too many avoidable deaths each winter, with just over 24,000 each year in England and Wales. However, the causes are complex, interlinked with fuel poverty, poor housing and health inequalities, as well as circulating infectious diseases, particularly flu and norovirus, and the extent of snow and ice.

This year’s Cold Weather Plan for England has been updated to incorporate the changes in the NHS and public health landscape. Public health is now a key responsibility for local authorities, with health and wellbeing boards tasked with protecting and improving the health of their local populations.

To inform and encourage action, the Public Health Outcomes Framework, first published in January 2012, includes indicators to reduce excess winter deaths and address fuel poverty. Strong local leadership and partnership working at all levels across sectors is therefore vital to tackle the range of causes and reduce the number of “excess” deaths that are observed each winter.

This Cold Weather Plan for England helps to raise the public’s awareness of the harm to health from cold, provides guidance on how to prepare for and respond to cold weather which can affect everybody’s health, and triggers actions in the NHS, public health, social care and other community organisations, to support vulnerable people who have health, housing or economic circumstances that increase their risk to harm. Communities and civil society can also help their neighbours, friends and relatives to protect against avoidable harm to health in winter.

While the Intergovernmental Panel on Climate Change has clearly shown us that climate change is occurring – the atmosphere and ocean have warmed, the amounts of snow and ice have diminished, and sea levels have risen – the expected increase in extreme weather events includes dangerous cold snaps. These will have more effect as we become accustomed to warmer climes – so we are going to need the guidance in these pages to protect from the effects of cold for many years to come.

Professor Dame Sally C Davies
Chief Medical Officer
Department of Health
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<th>Description</th>
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<tbody>
<tr>
<td>A&amp;E</td>
<td>Accident and emergency</td>
</tr>
<tr>
<td>CCGs</td>
<td>Clinical commissioning groups</td>
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<td>CCS</td>
<td>Civil Contingencies Secretariat</td>
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<td>CO</td>
<td>Cabinet Office</td>
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<td>CVS</td>
<td>Communities and voluntary sector</td>
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<td>CWP</td>
<td>Cold weather plan</td>
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<tr>
<td>DCLG</td>
<td>Department for Communities and Local Government</td>
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<td>DECC</td>
<td>Department of Energy &amp; Climate Change</td>
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<td>DH</td>
<td>Department of Health</td>
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<td>EPRR</td>
<td>Emergency preparedness, resilience and response</td>
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<td>EWD</td>
<td>Excess winter deaths</td>
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<tr>
<td>GP</td>
<td>General practitioner</td>
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<td>HHSRS</td>
<td>Housing Health and Safety Rating System</td>
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<td>HIV</td>
<td>Human immunodeficiency virus</td>
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<td>HWB</td>
<td>Health and wellbeing board</td>
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<td>JHWS</td>
<td>Joint health and wellbeing strategy</td>
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<td>JSNA</td>
<td>Joint strategic needs assessment</td>
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<td>LHRP</td>
<td>Local health resilience partnership</td>
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<td>LPG</td>
<td>Liquid petroleum gas</td>
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<td>LRF</td>
<td>Local resilience forum</td>
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<td>LSHTM</td>
<td>London School of Hygiene and Tropical Medicine</td>
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<tr>
<td>MECC</td>
<td>Making Every Contact Count</td>
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<td>NEA</td>
<td>National Energy Action</td>
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<td>NICE</td>
<td>National Institute for Health and Care Excellence</td>
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<td>NSWWS</td>
<td>National Severe Weather Warning Service</td>
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<td>ONS</td>
<td>Office for National Statistics</td>
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<td>PHE</td>
<td>Public Health Outcomes Framework</td>
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<td>PIRU</td>
<td>Policy Innovation Research Unit (LSHTM)</td>
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<td>PWS</td>
<td>Public Weather Service</td>
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<tr>
<td>RED</td>
<td>Resilience and Emergencies Division (DCLG)</td>
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<tr>
<td>SCG</td>
<td>Strategic co-ordination group</td>
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<tr>
<td>TIA</td>
<td>Transient ischaemic attack</td>
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<td>WHHP</td>
<td>Warm Homes Healthy People</td>
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Images: Bryan Pocius, Shutterstock and Islington Council
Executive summary

The Cold Weather Plan for England is a framework intended to protect the population from harm to health from cold weather. It aims to prevent the major avoidable effects on health during periods of cold weather in England by alerting people to the negative health effects of cold weather, and enabling them to prepare and respond appropriately.

It recommends a series of steps to reduce the risks to health from cold weather for:

- the NHS, local authorities, social care, and other public agencies
- professionals working with people at risk
- individuals, local communities and voluntary groups

The Cold Weather Plan has been published annually since 2011. This year’s plan builds on the experience of developing and improving the ability of the health and social care sector and its partners to deal with significant periods of cold weather.

Most of the actions identified in the Cold Weather Plan 2012 have been carried forward into the 2013 edition. Key changes which have been made include:

- updating responsibilities and actions for healthcare organisations, local authorities and professionals in light of the changes made to health and social care as of 1 April 2013
- emphasising action at level 0 (year round planning) and level 1 (winter preparedness and action) to reflect the preliminary findings from the Department of Health commissioned evaluation of the Cold Weather Plan by the Policy Innovation Research Unit, London School of Hygiene and Tropical Medicine (PIRU, LSHTM) that indicate that the greatest total health burden occurs at relatively moderate cold temperatures
- emphasising the importance of a long-term strategic approach by health and wellbeing boards (HWBs) and commissioners to reducing winter morbidity and mortality in the companion document Making the Case: why cold weather planning is essential to health and wellbeing, including links to the Public Health Outcomes Framework
- making a clearer distinction between the health effects and interventions for cold temperatures, and those for snow and ice

The plan continues to operate a system of cold weather alerts, developed in collaboration with the Met Office. This operates in England from 1 November to 31 March each year. During this period, the Met Office will issue alerts which may forecast periods of severe cold weather on the basis of either of two measures: low temperatures of 2°C or less; and/or heavy snow and ice.
The cold weather alert service comprises five levels (Levels 0-4), from long-term planning for cold weather, through winter and severe cold weather action, to a major national emergency. Each alert level aims to trigger a series of appropriate actions which are detailed in this plan. Detailed tables are available in the main body of the plan, but a high-level summary is given in the table below. This is followed by key public health messages to protect health in cold weather.

The plan is a good practice guide and the actions denoted within it are illustrative. It is a collaborative plan supported by PHE, NHS England, the Local Government Association, the Met Office and the Department of Health to protect and promote the health of the population of England. There are five key messages that are recommended to all local areas, particularly in view of recent structural changes:

All local organisations should consider this document and satisfy themselves that the suggested actions and cold weather alerts are understood across the system, and that local plans are adapted as appropriate to the local context.

NHS and local authority commissioners should satisfy themselves that the distribution of cold weather alerts will reach those that need to take action, especially in light of recent structural changes.

NHS and local authority commissioners should satisfy themselves that providers and stakeholders take appropriate action according to the cold weather alert level in place and their professional judgements.

Opportunities should be taken for closer partnership working with the community and voluntary sector to help reduce vulnerability and to support the planning and response to cold weather.

Long-term planning and commissioning to reduce cold-related harm is considered core business by HWBs and should be included in joint strategic needs assessments (JSNAs) and joint health and wellbeing strategies (JHWSs).
### Summary cold weather actions for health and social care organisations and professionals, communities and individuals

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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<tbody>
<tr>
<td><strong>Long-term planning</strong>&lt;br&gt;<strong>All Year</strong></td>
<td><strong>Winter preparedness and action</strong>&lt;br&gt;1 November to 31 March</td>
<td><strong>Severe winter weather forecast – Alert and readiness</strong>&lt;br&gt;Mean temperatures of 2°C and/or widespread ice and heavy snow predicted with 60% confidence</td>
<td><strong>Severe weather action</strong>&lt;br&gt;Mean temperatures of 2°C and/or widespread ice and heavy snow</td>
<td><strong>Major incident – Emergency response</strong></td>
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<tr>
<td><strong>Commissioners of health and social care</strong></td>
<td>1) Take strategic approach to reduction of EWDs and fuel poverty. 2) Ensure winter plans reduce health inequalities. 3) Work with partners and staff on risk reduction awareness (eg flu vaccinations, signposting for winter warmth initiatives).</td>
<td>1) Communicate alerts and messages to staff/public/media. 2) Ensure partners are aware of alert system and actions. 3) Identify which organisations are most vulnerable to cold weather and agree winter surge plans.</td>
<td>1) Continue level 1 actions. 2) Ensure partners can access advice and make best use of available capacity. 3) Activate business continuity arrangements as required.</td>
<td>1) Continue level 2 actions. 2) Ensure key partners are taking appropriate action. 3) Work with partners to ensure access to critical services.</td>
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<tr>
<td><strong>Provider organisations</strong></td>
<td>1) Ensure organisation can identify and support most vulnerable. 2) Plan for joined up support with partner organisations. 3) Work with partners and staff on risk reduction awareness (eg flu vaccinations, signposting for winter warmth initiatives).</td>
<td>1) Ensure cold weather alerts are going to right staff and actions agreed and implemented. 2) Ensure staff in all settings are considering room temperature. 3) Ensure data sharing and referral arrangements in place.</td>
<td>1) Continue level 1 actions. 2) Ensure carers receiving support and advice. 3) Activate business continuity arrangements as required; plan for surge in demand.</td>
<td>1) Continue level 2. 2) Implement emergency and business continuity plans; expect surge in demand in near future. 3) Implement local plans to ensure vulnerable people contacted.</td>
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<td><strong>Frontline staff – care facilities and community</strong></td>
<td>1) Use patient contact to identify vulnerable people and advise of cold weather actions; be aware of referral mechanisms for winter warmth and data sharing procedures. 2) Ensure awareness of health effects of cold and how to spot symptoms. 3) Encourage colleagues/clients to have flu vaccinations.</td>
<td>1) Identify vulnerable clients on caseload; ensure care plans incorporate cold risk reduction. 2) Check room temperatures and ensure referral as appropriate. 3) Signpost clients to other services using ‘Keep Warm Keep Well’ booklet.</td>
<td>1) Continue level 1 actions. 2) Consider prioritising those most vulnerable and provide advice as appropriate. 3) Check room temperatures and ensure urgent referral as appropriate.</td>
<td>1) Continue level 2 actions. 2) Implement emergency and business continuity plans; expect surge in demand in near future. 3) Prioritise those most vulnerable.</td>
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<td><strong>GPs and their staff</strong></td>
<td>1) Be aware of emergency planning measures relevant to general practice. 2) Ensure staff aware of local services to improve warmth in the home including the identification of vulnerable individuals. 3) Signpost appropriate patients to other services when they present for other reasons.</td>
<td>1) Consider using a cold weather scenario as a table top exercise to test business continuity arrangements. 2) Be aware of systems to refer patients to appropriate services from other agencies. 3) When making home visits, be aware of the room temperature.</td>
<td>1) Continue level 1 actions. 2) Take advantage of clinical contacts to reinforce public health messages about cold weather and cold homes on health. 3) When prioritising visits, consider vulnerability to cold as a factor in decision making.</td>
<td>1) Continue level 2 actions. 2) Expect surge in demand near future. 3) Ensure staff aware of cold weather risks and can advise appropriately.</td>
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<tr>
<td>Level</td>
<td>Community and voluntary sector</td>
<td>National level</td>
<td>Individuals</td>
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<td>Level 0</td>
<td>1) Engage with local statutory partners to agree how CVS can contribute to local community resilience arrangements. 2) Develop a community emergency plan to identify and support vulnerable neighbours. 3) Agree arrangements with other community groups to maximise service for and contact with vulnerable people.</td>
<td>1) CO will lead on co-ordinating cross-government work; individual government departments will work with partners on winter preparations. 2) DH, PHE and NHS England will look to improve the CWP and the monitoring and analysis of winter-related illness and deaths. 3) PHE and NHS England will issue general advice to the public and professionals and work closely with other government departments and other national organisations that produce winter warmth advice.</td>
<td>1) Seek good advice about improving the energy efficiency of your home and staying warm in winter; have all gas, solid fuel and oil burning appliances serviced by an appropriately registered engineer. 2) Check your entitlements and benefits; seek income maximisation advice and other services. 3) Get a flu jab if you are in a risk group (September/October).</td>
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<td>Level 1</td>
<td>1) Test community emergency plans to ensure that roles, responsibilities and actions are clear. 2) Set up rota of volunteers to keep the community safe in cold weather and check on vulnerable people. 3) Actively engage with vulnerable people and support them to seek help.</td>
<td>1) Cold Weather Alerts will be sent by the Met Office to the agreed list of organisations and Category 1 responders. 2) PHE and NHS England will make advice available to the public and professionals. 3) NHS England will continue to hold health services to account for action and PHE will routinely monitor syndromic, influenza, norovirus and mortality surveillance data.</td>
<td>1) If you are receiving social care or health services ask your GP, key worker or other contact about staying healthy in winter and services available to you. 2) Check room temperatures – especially those rooms where disabled or vulnerable people spend most of their time 3) Look out for vulnerable neighbours and help them prepare for winter.</td>
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<td>Level 2</td>
<td>1) Activate the community emergency plan. 2) Activate the business continuity plan. 3) Continue to actively engage vulnerable people known to be at risk and check on welfare regularly.</td>
<td>1) Continue level 1 actions. 2) DH will ensure that other government departments, particularly DCLG RED, are aware of the change in alert level and brief ministers as appropriate. 3) Government departments should cascade the information through their own partner networks and frontline communication systems.</td>
<td>1) Continue to have regular contact with vulnerable people and neighbours you know to be at risk in cold weather. 2) Stay tuned into the weather forecast ensure you are stocked with food and medications in advance. 3) Take the weather into account when planning your activity over the following days.</td>
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<td>Level 3</td>
<td>1) Continue level 2 actions. 2) Ensure volunteers are appropriately supported. 3) Contact vulnerable people to ensure they are safe and well and support them to seek help if necessary.</td>
<td>1) Continue level 2 actions. 2) NHS England will muster mutual aid when requested by local services. 3) Met Office will continue to monitor and forecast temperatures in each area, including the probability of other regions exceeding the level 3 threshold.</td>
<td>1) Continue level 2 actions. 2) Dress warmly; take warm food drinks regularly; keep active. If you have to go out, take appropriate precautions. 3) Check on those you know are at risk.</td>
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<td>Level 4</td>
<td>Level 4 alert issued at national level in light of cross-government assessment of the weather conditions, coordinated by the Civil Contingencies Secretariat (CCS) based in the Cabinet Office. All level 3 responsibilities to be maintained unless advised to the contrary</td>
<td>1) Continue level 2 actions.</td>
<td>Follow key public health and weather alert messages as broadcast on the media.</td>
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Key public health messages

Get your flu jab if you:
- are aged 65 or older
- are pregnant
- have a serious medical condition such as chronic heart, lung, neurological, liver or kidney disease or diabetes
- have a weakened immune system due to HIV or treatments that suppress the immune system such as chemotherapy
- have had a stroke or transient ischaemic attack (TIA) or post-polio syndrome
- are living in a long-stay residential care home or other long-stay care facility (not prison or university halls)
- are the main carer for an elderly or disabled person whose welfare may be at risk if you fall ill
- Contact your GP or pharmacist if you think you, or someone you care for, might qualify for a free flu jab (see Seasonal flu vaccination winter 2013-14 – who should have it and why)

Keep your home warm, efficiently and safely:
- heat your home to the right temperature: your living room should be 21°C (70°F), and your bedroom and the rest of the house heated to 18°C (65°F). Above this and you may waste money; below this you may risk your health. This will keep your home warm and may lower your bills
- if you can’t heat all the rooms you use, heat the living room during the day and your bedroom just before you go to bed
- get your heating system and cooking appliances checked and keep your home well ventilated
- use your electric blanket as instructed and get it tested every three years. Never use a hot water bottle with an electric blanket
- switch your appliances (such as TVs and microwaves) off rather than leaving them on standby
- do not use a gas cooker or oven to heat your home; it is inefficient and there is a risk of carbon monoxide poisoning and this can kill
- make sure you have a supply of heating oil or LPG or solid fuel if you are not on mains gas or electricity – to make sure you do not run out in winter
Key public health messages

Keep the warmth in by:
- fitting draught proofing to seal any gaps around windows and doors
- making sure you have loft insulation. And if you have cavity walls, make sure they are insulated too
- insulate your hot water cylinder and pipes
- draw your curtains at dusk to help keep heat generated inside your rooms
- make sure your radiators are not obstructed by furniture or curtains

Look after yourself:
- food is a vital source of energy and helps to keep your body warm so have plenty of hot food and drinks
- aim to include five daily portions of fruit and vegetables. Tinned and frozen vegetables count toward your five a day
- stock up on tinned and frozen foods so you don’t have to go out too much when it’s cold or icy
- exercise is good for you all year round and it can keep you warm in winter
- if possible, try to move around at least once an hour. But remember to speak to your GP before starting any exercise plans
- wear lots of thin layers – clothes made from cotton, wool or fleecy fibres are particularly good and maintain body heat
- wear good-fitting slippers with a good grip indoors and shoes with a good grip outside to prevent trips, slips and falls
- make sure you have spare medication in case you are unable to go out

Look after others:
- check on older neighbours or relatives, especially those living alone or who have serious illnesses to make sure they are safe, warm and well

Get financial support:
- there are grants, benefits and sources of advice to make your home more energy efficient, improve your heating or help with bills. It’s worthwhile claiming all the benefits you are entitled to before winter sets in
1. Why this plan is needed

Although winter weather and snow can be fun for some, these weather conditions are also associated with an increase in illness and injuries. Cold weather increases the risk of heart attacks, strokes, lung illnesses, flu and other diseases. People slip and fall in the snow or ice, sometimes suffering serious injuries. Some groups, such as older people, very young children, and people with serious medical conditions are particularly vulnerable to the effects of cold weather.

In 2011/12 there were 22,800 more deaths in England between the months of December 2011 to March 2012 than were observed during the non-winter months. Excess deaths are not just deaths of those who would have died anyway in the next few weeks or months due to illness or old age. There is strong evidence that some of these winter deaths are indeed “extra” and are related to cold temperatures and living in cold homes as well as infectious diseases such as influenza. In the recent past, the rate of winter deaths in England was twice the rate observed in some northern European countries, such as Finland.

Although there are several factors contributing to winter illness and death, in many cases simple preventative action could avoid many of the deaths, illnesses and injuries associated with the cold. Many of these measures need to be planned and undertaken in advance of cold weather.

The Cold Weather Plan for England (CWP) aims to prevent avoidable harm to health, by alerting people to the negative health effects of cold weather, and enabling them to prepare and respond appropriately. The CWP also aims to reduce pressure on the health and social care system during winter through improved anticipatory actions with vulnerable people.

The plan sets out a series of actions to be taken by the NHS, social care and other agencies throughout the year, to prepare for and respond to winter, so as to protect the vulnerable. It also encourages local communities to support the most vulnerable in their area, such as checking on them during severe weather and offering other support.

DH commissioned an independent evaluation of the CWP from the Policy Innovation Research Unit, London School of Hygiene and Tropical Medicine (PIRU, LSHTM). The aim of the evaluation was to examine the effect of cold weather on health and health services; assess the extent to which the CWP is implemented at the local level and whether it is reaching its target groups; assess whether it is cost-effective; and recommend how it may be improved in future years. The evaluation was undertaken from September 2012 to September 2013, with the final stages of completion underway.
at the time of writing of the 2013 edition of the plan. Preliminary findings have been incorporated in this edition where possible.

1.1 The Cold Weather Plan 2013-14

DH published the first CWP for England in November 2011 along with a companion document *Making the Case: Why Cold Weather Planning is essential to Health and Wellbeing* The plan was re-issued in 2012, with an additional document *Supporting the Case*.

The CWP 2013 is composed of:

- the CWP (focus on cold weather actions)
- a series of action cards (taken from the plan and intended as aide memoires)
- *Making the Case: why long-term strategic planning for cold weather is essential to health and wellbeing*, which has combined elements of both previous supporting documents to create one new document

In line with PHE communications policy, the CWP documents will be available in electronic format only. PHE makes every effort to ensure materials published online are available in accessible formats. Local partners may wish to print copies of the *Keep Warm Keep Well booklet* for clients they feel may benefit.

The plan is a good practice guide and the actions within it illustrative. Most of the actions identified in the CWP 2012 have been carried forward into the 2013 edition. Key changes which have been made include:

**a) Updating responsibilities and actions**

The implementation of the Health and Social Care Act 2012 has resulted in changes to the structure of health care and public health as of 1 April 2013, which are reflected in this update (see section 1.3 for roles and responsibilities)

**b) Increasing action at level 0 (year round planning) and level 1 (winter preparedness and action)**

Preliminary findings from the evaluation of the CWP by the PIRU LSHTM indicate that most of the health burden from cold weather occurs before the current 2°C threshold for alert level 2 or 3 is reached. This is because the negative health effects of cold weather start to occur at relatively moderate mean temperatures (5-8°C depending on region), and days at these temperatures occur much more frequently than days where the temperature is 2°C or less.
Furthermore, it is clear that while actions taken by health and social care sector during cold weather may relieve part of the health burden\textsuperscript{6}, multi-agency action is required to address wider determinants of health, such as socioeconomic inequalities, fuel poverty and housing energy efficiency.

More emphasis has been placed on actions to be taken at level 0 and level 1, and renamed level 1 “winter preparedness and action” to reflect this. Some actions previously included in Levels 2 and 3 have been transferred into level 1, to ensure that public health messaging and actions are taken at the appropriate time to reduce excess morbidity and mortality. These changes are discussed further in section 3 of the Making the Case document.

c) Emphasising the importance of a long-term strategic approach and aligning with the Public Health Outcomes Framework

The CWP is only part of a wider response required to tackle excess winter deaths (EWDs) and there is a strong argument for a multi-agency approach to reducing the wider determinants of winter deaths and disease. This is not something that can be tackled in the winter alone and requires a long-term strategic approach by HWBs, directors of public health and commissioners to assess needs and to commission, plan and implement interventions.

The Public Health Outcomes Framework (PHOF)\textsuperscript{8} sets out desired outcomes and indicators to help local authorities and their partners understand how well public health is being improved and protected. There are two indicators within the framework that are directly related to this plan: fuel poverty and EWDs. However, action to reduce the harm from cold can be linked to many more outcome framework indicators connected to the wider determinants of health, such as poverty, educational achievement and social isolation (see section 4 of Making the Case).

d) Making a clearer distinction between the health effects and interventions for cold temperatures, and those for snow and ice

Cold temperatures predominantly affect older age groups, children and those with chronic illnesses; the actions in this plan are primarily targeted at these groups. Health effects are mostly “medical”; it is thought that about 40% of cold-related mortality is due to cardiovascular disease and 33% to respiratory disease.

Heavy snow and ice have a smaller, but still important direct effect on health; predominantly resulting in falls and injuries.\textsuperscript{9} The preliminary findings of the PIRU LSHTM evaluation indicate that most injuries relating to snow and ice occur in working age adults (ie those who are out and about in these conditions). However, snow and ice
may cause significant disruption to the delivery of healthcare and other services, which will have an indirect impact on health and wellbeing.

The plan endeavours to clarify these differences and to include more about the National Severe Weather Warning Service (NSWWS) which provides warning with regard to snow and ice, based on an assessment of likelihood and impact, and can be defined at a more specific regional level, than the Cold Weather Alert system.

1.2 Who is the plan for?

The plan is for health and social care services and other public agencies and professionals who interact with those most at risk from the health effects of cold weather.

Local health resilience partnerships (LHRPs) and local resilience forums (LRFs) will have a critical role in preparing for, responding to, and recovering from, severe winter weather at a local level, working closely with HWBs on longer-term strategic planning.

The plan aims to cover the spectrum of action from commissioning and planning to emergency response. Both the main plan and the companion document will be of interest to all professional groups. In general terms:

**Level 0** “Year round planning” and the *Making the Case* companion document may be more of relevance to public health professionals, HWBs and local authority chief executives and elected members.

**Level 1** “Winter preparedness and action” and the *Making the Case* companion document will be of relevance to all professional groups, particularly front line health and social care professionals.

**Levels 2-4** “Severe winter weather is forecast through to national emergency” are more reactive in nature and include snow and ice as well as severe cold weather and may be particularly relevant to emergency planners and responders.

The plan is also intended to mobilise individuals and communities to help to protect their neighbours, friends, relatives, and themselves against avoidable health problems in cold weather. Broadcast media and alerting agencies may also find this plan useful.

At-risk groups include older people, the very young and people with pre-existing medical conditions as well as those whose health, housing or economic circumstances put them at greater risk of harm from cold weather.
Appendix 1 of this document and section 2 in *Making the Case* provide more information on which groups may be at particular risk from cold weather. However, paraphrasing the concept of proportionate universalism identified in the Marmot review *Fair Society Healthy Lives*, it is important not to focus only on those most at risk; actions should be universal, but with a scale and intensity proportionate to the level of risk.

Appendix 2 provides some information on methods for identifying people who might benefit from extra targeted support. It is recognised that identifying and supporting people who may fall into these groups remains challenging, particularly if they are not already in receipt of services that might help identify them. Community and voluntary groups, perhaps particularly those that may not consider themselves as “health” or “social care” organisations, can play a valuable role in reaching those not otherwise supported (for more information see section 1.4.6).

### 1.3 The Cold Weather Plan and new arrangements

The CWP builds on existing measures taken by DH, the NHS and local authorities to protect individuals and communities from the effects of cold weather and encourage community resilience. It outlines the key areas where public, independent and voluntary sector health and social care organisations should work together to maintain and improve integrated arrangements for planning and response in order to deliver the best outcomes possible during cold weather. It is the responsibility of each local area to ensure that preparedness and response plans are drawn up and tested.

The implementation of the Health and Social Care Act 2012 has seen the abolition of primary care trusts and strategic health authorities and the creation of a number of new bodies including PHE, NHS England and clinical commissioning groups (CCGs). At a local level, responsibility for public health has transferred to local authorities.

DH is responsible for strategic leadership of both health and adult social care systems, but no longer has direct management of most NHS systems. It is responsible for policy decisions regarding excess winter morbidity and mortality.

NHS England provides national leadership for improving health care outcomes, directly commissions primary care (specifically general practice services, dentistry, optometry and pharmacy), some specialist services, and oversees CCGs. It is responsible for assuring that the NHS is prepared for cold weather.

CCGs now commission planned hospital care, rehabilitative care, urgent and emergency care, most community health services, mental health and learning disability services.
NHS funded organisations, including commissioners and providers of NHS funded care, must show they can deal with a significant incident or emergency. This programme of work is referred to in the health community as emergency preparedness, resilience and response (EPRR).

NHS Choices continues to provide reliable advice and guidance throughout the year on how to keep fit and well. It includes information on winter health.

PHE provides national leadership and expert services to support public health, including health surveillance. Responsibility for preparing and publishing the CWP for England has passed to PHE. PHE will prepare and publish the CWP and seek to ensure that is widely communicated using a variety of channels to ensure maximum publicity.

PHE will make advice available to the public and health and social care professionals across England in preparation for winter, and to regions, where severe cold weather (including snow and ice) is forecast, via NHS Choices, and the websites of the Met Office and PHE.

Local authorities (“upper tier” and unitary) are responsible for population health outcomes, led by directors of public health and supported by PHE. They have a duty to ensure that plans are in place to protect the health of their population as part of their public health leadership role. Chief executives of local authorities and councillors, especially those with portfolio responsibility for health, have important strategic overview and scrutiny functions, as well as community engagement and decision-making roles.

These organisations are brought together to provide strategic co-ordination of commissioning, planning and response at local level as per the Civil Contingencies Act 2004 and guidance issued by the Cabinet Office, DH and the Department for Communities and Local Government (DCLG).

The local resilience forum (LRF) and strategic co-ordinating group (SCG) bring together emergency planning and response arrangements run by local government and the NHS.

LHRPs have been established to bring together local health organisations to support strategic planning. This will help to ensure that the health sector plays an effective, co-ordinated role in multi-agency planning and response, based around the various agencies’ and providers’ responsibilities at a local level.

HWBs act as forums for commissioners across the NHS, social care and public health systems and are responsible for JSNAs and health and wellbeing strategies to inform commissioning. Engagement of these boards in the long-term strategic preparation for cold weather and aspects related to climate change mitigation and adaptation is critical,
in order to reduce the risks and harness opportunities to improve health, including tackling poor quality housing.

1.4 The core elements of the plan

The CWP depends on having well co-ordinated arrangements for dealing with cold weather in place before winter starts. The essential elements of effective cold-weather planning include:

1.4.1 Strategic planning and commissioning

Co-ordinated multi-agency long-term planning and commissioning for cold weather is essential:

- to protect people and infrastructure from the effects of cold weather and thus reduce excess winter illness and death and the burden on health and social care
- to support improved building design and increased energy efficiency which can improve and protect health (thereby potentially reducing pressure on health provision), reduce carbon emissions, and generate jobs in the local community
- to tackle fuel poverty; including energy efficiency interventions in the home, income maximisation and minimising energy costs

It is strongly recommended that long-term planning and commissioning to reduce cold-related harm is considered core business by HWBs and included in JSNAs and JHWSs.

1.4.2 Alert system (advance warning and advice over the winter)

A Cold Weather Alert service operates from 1 November to 31 March, based on Met Office forecasts and data. This will trigger levels of response from the NHS, local government and public health system, and communication of risks to the public.

Advice and information for the public and for health and social care professionals should be available, particularly those working with at-risk groups. This includes both general preparation and actions for cold weather and more specific advice when severe cold weather (including snow and ice) is forecast.
1.4.3 Winter preparedness and action, including severe cold weather

Local authorities, PHE and NHS England have a duty to plan and co-operate with partner organisations to ensure that both in planning and response they work together around risks, including preparation for cold weather, snow and ice. Organisations plan and collaborate at local, regional and national levels as required.

Elements which local NHS, public health and social care organisations will oversee include, but are not limited to:

For cold weather:

- action to reduce exposure to low indoor temperatures
- particular care for vulnerable population groups including partnership with community and voluntary organisations
- preparedness of the health and social care system – staff training and planning, appropriate healthcare and the physical environment

For severe cold and snow and ice:

- action to ensure that business continuity plans are in place and exercised in partnership with provider organisations
- work with partner agencies to ensure road and pavement gritting arrangements are in effect to allow access to critical services
- support for local community organisations to activate community emergency plans

1.4.4 Communicating with the public

Working with the media to get advice to people, both before the start of cold weather and during a spell of severe cold weather is vital:

- the Civil Contingencies Act 2004 provides a duty on category 1 responders to warn and inform the public before, during and after an emergency
- there should be a local cold weather-related health information plan – specifying what is communicated, to whom, when, how and why
- this should raise awareness of how exposure to severe cold and living in low indoor temperatures affects health and what preventive action people can take, both throughout the year and during cold weather to keep warm
- attention should especially be given to ensuring that key public health messages (p10 and Box 3.1 section 3) reach vulnerable groups and those who care for them (eg caregivers of the chronically ill, parents of young children) in a suitable and timely way. Public health messages and advice on financial support and benefits can be found in the Keep Warm Keep Well booklet on the www.gov.uk website
1.4.5 Working with service providers

Service providers should be supported to reduce cold-related harm by, for example:

- advising hospitals and care, residential and nursing homes to monitor indoor temperatures and heat rooms appropriately to reduce the risk of cold-related illness and death in the most vulnerable populations
- supporting GPs, district nurses and social workers to identify vulnerable patients and clients on their practice lists, by providing them with toolkits and sharing examples of good practice
- ensuring that health and social care organisations and voluntary groups implement measures to protect people in their care and reduce cold-related illness and death in those most at risk
- exploring how other services that may have contact with vulnerable groups (eg fire services undertaking home safety checks) should refer people to winter warmth initiatives
- ensuring midwives, health visitors, community health practitioners and school nurses provide advice to parents with young or disabled children about the risk of exposure to low indoor temperatures and heating homes appropriately and affordably
- working with registered providers of housing to encourage wardens/caretakers to keep an eye out for vulnerable tenants during cold weather, and to consider measures to increase energy efficiency such as insulation, foil heat reflectors for radiators and draught-proofing
- considering the impact of cold weather on homeless people (in temporary accommodation or sleeping on the streets) and planning in advance with providers the point at which alternative daytime and night-time shelter or emergency housing would be provided or access hours extended.
- supporting staff to remain fit and well during winter, for example staff flu immunisation programmes

1.4.6 Engaging the community

Community engagement is fundamental and may offer significant assistance in identifying and supporting particularly vulnerable or marginalised individuals for example by providing extra help where possible, to care for those most at risk, including isolated older people and those with a serious illness or disability or helping ensure people are claiming their entitlement to benefits (see Keep Warm Keep Well booklet).
This support could come from the voluntary sector, communities and faith groups, families and others. It should be noted that:

- the communities and voluntary sector (CVS) covers a wide variety of organisations from organisations with a very specialist focus on a specific condition or type of provision, organisations who focus on a specific client group or community, broader-based providers, emergency response organisations, campaigning organisations, representative groups, community centres
- this broad range of support different groups can provide should be considered at all levels of planning and response, and it is important that they are involved at the earliest opportunity, as trusted links take time to build
- CVS providers that specialise in health and social care are vital and many of these will already be well linked into the health and care system. However, the wider voluntary sector (e.g. community centres, recreational groups, social groups, parish councils in rural areas and neighbourhood forums in urban areas) can also have an important role to play, particularly for example in reaching vulnerable people not already engaged with statutory services. These organisations are much less likely to be linked in with statutory bodies or providers and may need information to understand their role and why cold weather planning and response is relevant to them
- the wider CVS can also be involved as a provider of resources. This could be equipment (blankets, sleeping bags, stoves), facilities (emergency accommodation) or people (volunteers, signposting)¹¹
- older people within communities can help identify those most vulnerable and should be involved in the planning for cold weather. Strong links with local older people’s forums are essential, providing them with information to help identify and support those most at risk. For example, DECC and NEA are holding a series of workshops this winter to train older people to be energy efficiency advocates (see Appendix 1 of Making the Case for more information)
- local infrastructure organisations and local umbrella bodies are a good initial route into the local voluntary sector. They can communicate messages, identify organisations that represent particular communities and co-ordinate partnerships of sector bodies

1.4.7 Monitoring/evaluation

Near real-time surveillance will be undertaken by PHE, and ongoing evaluation undertaken by PHE and other partners (see section 4).
2. Cold Weather meteorological services

The Met Office is the UK’s national weather service. Its Public Weather Service (PWS) provides forecasts for the public to help them make informed decisions about their day-to-day activities. The National Severe Weather Warning Service is part of this, providing advance notice of weather which could affect public safety.

**Figure 2.1 Met Office service and notifications**

<table>
<thead>
<tr>
<th>Service</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General weather forecast</strong></td>
<td>To enable the UK public to make informed decisions about their day-to-day activities</td>
</tr>
<tr>
<td></td>
<td>Web, TV, radio</td>
</tr>
<tr>
<td><strong>National Severe Weather Warning Service (NSWWS)</strong></td>
<td>Provision of weather warnings to:</td>
</tr>
<tr>
<td></td>
<td>a) the public to alert in advance of high impact weather and to prompt consideration of actions they may need to take</td>
</tr>
<tr>
<td></td>
<td>b) “Civil emergency authorities” and the “MoD” to trigger their plans to protect the public from impacts in advance of an event, and to help them recover from any impacts after the event.</td>
</tr>
<tr>
<td></td>
<td>Email, web, TV, radio, print media, Twitter, SMS, Facebook</td>
</tr>
<tr>
<td><strong>Cold Weather Alerts</strong></td>
<td>To provide early warning of low temperature and or widespread ice/heavy snow to health and social care organisations and professionals registered with the service</td>
</tr>
<tr>
<td></td>
<td>Email, Twitter, Web</td>
</tr>
<tr>
<td><strong>Cold Weather Planning Advice</strong></td>
<td>To provide planning advice throughout the winter period relating to low temperatures or widespread ice/heavy snow to health and social care organisations and professionals registered with the service</td>
</tr>
<tr>
<td></td>
<td>Email</td>
</tr>
</tbody>
</table>
2.1 The National Severe Weather Warning Service

The Met Office’s National Severe Weather Warning Service (NSWWS) warns organisations and the public about a range of high-impact weather events, including rain, snow, wind, fog and ice. This service operates year round across the UK, and can be found on the met office website.

A warning will be issued when snow and ice is forecast to cause an impact across a number of sectors, including health. It is issued based on a combination of the impact of the weather, and the likelihood of the weather happening. A NSWWS warning can be issued up to five days in advance of the expected event.

Warning level

Warnings are based on a combination of:
- **likelihood** – how likely the event is to occur
- **impact** – the potential impact the expected conditions may have

Colour of warnings (impact matrix)

Warnings are given a colour depending on a combination of both the likelihood of the event happening and the impact the conditions may have:
- red
- amber
- yellow

An example of the matrix used to decide the warning colour is shown below. In this case, an event with a high impact and medium likelihood would result in an amber warning.
### Figure 2.2 Met Office NSWWS: Impact table for snow and ice

<table>
<thead>
<tr>
<th>Impact and advice associated with SNOW</th>
<th>Very Low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small amounts of snow lying on roads and pavements so some slippery road surfaces possible. Traffic may move generally slower than normal. Take extra care when walking, cycling or driving in affected areas.</td>
<td>More widespread snow lying on roads and pavements but road networks generally open. Care needed with only localised travel disruption. Problems mostly confined to usual prone areas. Take extra care when walking, cycling or driving in affected areas. Journeys through affected areas may take longer than usual.</td>
<td>Widespread snow with a number of road closures, others passable only with care. <strong>BE PREPARED</strong> for some disruption to road, rail and air transport with difficult driving conditions likely and longer journey times.</td>
<td>Widespread deep snow with many roads closed or impassable. Roads likely to become impassable with high risk of drivers becoming stranded. Significant disruption to road, rail and air transport. Risk to personal safety. Expect significant disruption to normal day to day life as a result of transport issues, school closures etc. Avoid making unnecessary journeys.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Impact and advice associated with ICE</th>
<th>Very Low</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localised icy stretches on some untreated roads and pavements are possible. Take extra care when walking, cycling or driving in affected areas.</td>
<td>More widespread icy stretches on untreated roads and pavements but road networks generally open. Take extra care when walking, cycling or driving in affected areas. Journeys through affected areas may take longer than usual.</td>
<td>Widespread black ice, some roads passable only with care. Possibility of road collisions and significant increase in slips &amp; falls.</td>
<td>N/A</td>
<td>It is extremely unlikely that widespread ice, on its own in the UK, would be sufficient to be considered “high impact” by NSWWS.</td>
</tr>
</tbody>
</table>
NSWWS does not consider cold temperatures explicitly, but can provide information at a more specific geographical level about snow or ice forecasts that the public and emergency planners may find useful.

To receive NSWWS warnings directly, register with hazard manager.

2.2 The Cold Weather Alert Service

A Cold Weather Alert Service was established in 2011 in collaboration between DH and the Met Office. It operates in England from 1 November to 31 March. During this period, the Met Office may forecast severe cold weather, as defined by forecasts of 2°C and/or snow and ice.

The Cold Weather Alert service comprises five main levels (levels 0-4) outlined in Figure 2.3 and described in further detail below.

**Figure 2.3: Cold Weather Alert levels**

<table>
<thead>
<tr>
<th>Level</th>
<th>Long-term planning</th>
<th>Winter preparedness and action programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 0</td>
<td>Long-term planning</td>
<td>Long-term planning</td>
</tr>
<tr>
<td></td>
<td>All year</td>
<td>1 November to 31 March</td>
</tr>
<tr>
<td>Level 1</td>
<td>Winter preparedness</td>
<td>Winter preparedness and action programme</td>
</tr>
<tr>
<td></td>
<td>and action programme</td>
<td>1 November to 31 March</td>
</tr>
<tr>
<td>Level 2</td>
<td>Severe winter weather</td>
<td>Severe winter weather is forecast – Alert and readiness</td>
</tr>
<tr>
<td></td>
<td>is forecast – Alert and readiness</td>
<td>Mean temperature of 2°C and/or widespread ice and heavy snow are predicted within 48 hours, with 60% confidence.</td>
</tr>
<tr>
<td>Level 3</td>
<td>Response to severe</td>
<td>Response to severe winter weather – Severe weather action</td>
</tr>
<tr>
<td></td>
<td>winter weather</td>
<td>Severe winter weather is now occurring: mean temperature of 2°C or less and/or widespread ice and heavy snow.</td>
</tr>
<tr>
<td>Level 4</td>
<td>Major incident</td>
<td>Major incident – Emergency response</td>
</tr>
<tr>
<td></td>
<td>– Emergency response</td>
<td>Central Government will declare a Level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health</td>
</tr>
</tbody>
</table>

**Cold Weather Alerts – definitions**

**Cold Weather Alert** – An alert for snow and ice will be issued when there is a high likelihood (more than 60%) that there will be snow or widespread ice affecting one or more regions. A level 2 will be issued when this weather is forecast, and a level 3 when the snow and ice is occurring. An NSWWS warning is highly likely to have been issued as well (see section 2.1 above).
Heavy snow – Snow that is expected to fall for at least two hours. Geographic extent is not considered, and sometimes the event can be quite localised, but the Met Office will always try to indicate which area will be affected in the alert.

Widespread ice – Ice forms when rain falls on surfaces at or below zero; or already wet surfaces fall to or below zero. The ice is usually clear and difficult to distinguish from a wet surface. It usually forms in sheets. Warnings are issued when any depth of ice is expected over a widespread area. Warnings will also be issued after a snowfall when compacted snow is expected to cause an ice risk.

The term “widespread” indicates that icy surfaces will be found extensively over the area defined by the Met Office in the alert.

The Met Office issues these alerts down to a county level, so either of the warnings above could be issued even if only one county is likely to be affected.

Appendix 3 shows the core messages to be broadcast as official PHE warnings alongside national and regional weather forecasts at different cold weather alert levels. They may be expanded or otherwise refined in discussion with broadcasters and weather presenters.

Level 0: Long-term planning to reduce harm from cold weather

This emphasises that year-round planning is required to build resilience and reduce the impact of cold weather. This level of alert relates to those longer-term actions that reduce the harm to health of cold weather when it occurs (eg housing and energy efficiency measures, and long-term sustainable approaches to influence behaviour change across health and social care professionals, communities and individuals).

These measures can also address other important health, sustainability and inequalities issues, such as addressing fuel poverty, building community resilience, providing employment opportunities, reducing carbon emissions, and the burden on health and social care services (see Making the Case section 3.1).

Level 1: Winter preparedness and action

Level 1 is in force throughout the winter from 1 November to 31 March and covers the moderate temperatures where the greatest total burden of excess winter death and disease occur. This is because the negative health effects of cold weather start to occur at relatively moderate mean temperatures (5-8°C depending on region) and there are normally many more days at these temperatures each winter.
Actions described at this level should be being taken throughout the winter to protect and improve health. Preparations should also be in place to protect health and ensure service continuity in the event of severe cold, and for episodes of heavy snow and/or widespread ice (see *Making the Case* section 3.2).

**Level 2: Alert and readiness**

Level 2 is triggered when the Met Office forecasts a 60% chance of severe winter weather, in one or more defined geographical areas within 48 hours. Severe winter weather is defined as a mean temperature of 2°C or less and/or heavy snow and widespread ice.

Although there are usually fewer days at these low temperatures, the risk of negative health impacts increases as the temperature falls. Reactive action to prevent harm to health and manage business continuity by services would be proportionately more important were we to experience an extremely cold spell for a prolonged period. Aside from cold temperatures, snow and ice are associated with an increase in injuries and severe disruption to services.

**Level 3: Severe weather action**

This is triggered as soon as the weather described in level 2 actually happens. It indicates that severe winter weather is now happening and an impact on health services is expected.

**Level 4: National emergency**

This is reached when cold weather is so severe and/or prolonged that its effects extend outside health and social care, and may include for example power or transport problems, or water shortages, and/or where the integrity of health and social care systems is threatened. At this level, multi-sector response at national and regional levels will be required.

The decision to go to a level 4 is made at national level and will be taken in light of a cross-government assessment of the weather conditions, co-ordinated by the Civil Contingencies Secretariat (Cabinet Office).

A dummy alert for illustration purposes is given in Figure 2.4, and Figure 2.5 illustrates how cold weather alert messages may be cascaded by e-mail throughout the local community and nationally as appropriate. LRFs, LHRPs, and health and social care organisations will want to develop this into a specific cascade system that is appropriate for their local area.
Figure 2.4 Example of a Cold Weather Alert

Cold Weather Alert

Tel 0800 000 0000 www.metoffice.gov.uk

NHS (Ref: M043)

Forecast issued on $\langle ddddd \rangle$, $\langle dd \rangle$ $\langle mmm \rangle$ $\langle yyyy \rangle$ at 17:14

Cold Weather Alert

Level 3 – Severe Weather Action

The Level 3 alert has been issued because of the forecasted frosty nights and low daytime temperatures have occurred throughout the week. We have already seen temperatures as low as -8.2°C in the West Midlands, -6.4°C in South Farnborough, Hampshire and -5.7°C in Burntwood, Staffordshire this week and the Level 3 Alert is expected to remain in force until the weekend.

This is a Level 3 alert for the areas identified in the table below. Please refer to the national Cold Plan and your Trust’s emergency plan for appropriate preventative action.

Level 2 – Alert and Readiness

There is a 60% probability of extreme cold weather and icy conditions between 0001 Sunday and 0500 Wednesday in parts of England. This weather could increase the health risks of vulnerable patients and disrupt the delivery of services.

This is a Level 2 alert for the areas identified in the table below. Please refer to the national Cold Plan and your Trust’s emergency plan for appropriate preventative action.

An update will be issued by 1000 on $\langle ddddd \rangle$, $\langle dd \rangle$ $\langle mmm \rangle$ $\langle yyyy \rangle$.

Regional risk assessments for occurrence of cold weather conditions between 1500 on Saturday and 1500 on Tuesday.

The areas that are likely to be affected are:

<table>
<thead>
<tr>
<th>Region</th>
<th>Risk</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>North East England</td>
<td>40%</td>
<td>Strong North Easterly winds will lead to significant windchill</td>
</tr>
<tr>
<td>North West England</td>
<td>50%</td>
<td>Strong North Easterly winds will lead to significant windchill</td>
</tr>
<tr>
<td>Yorkshire and the Humber</td>
<td>40%</td>
<td>Strong North Easterly winds will lead to significant windchill</td>
</tr>
<tr>
<td>West Midlands</td>
<td>100%</td>
<td>Widespread low daytime and overnight minima possible</td>
</tr>
<tr>
<td>East Midlands</td>
<td>40%</td>
<td>Low overnight minima possible is rural areas</td>
</tr>
<tr>
<td>East of England</td>
<td>40%</td>
<td>Low overnight minima possible is rural areas</td>
</tr>
<tr>
<td>Southeast England</td>
<td>100%</td>
<td>Widespread low daytime and overnight minima possible</td>
</tr>
<tr>
<td>London</td>
<td>20%</td>
<td>Area of London will be affected</td>
</tr>
<tr>
<td>South West England</td>
<td>100%</td>
<td>Widespread low daytime and overnight minima possible</td>
</tr>
</tbody>
</table>

KEY

- Winter preparedness (Level 1)
- Alert and Readiness (Level 2)
- Severe Weather Action (Level 3)
- Emergency Response (Level 4)

General Comments: High pressure over Scandinavia will allow much colder air to spread in from the continent over the next few days. The coldest conditions will be across Southwest England, the Midlands and into eastern Wales. Maximum temperatures will be below 3°C in places with minima of around -8°C in outlying areas, with mean temperature expected to be below 1°C widely.
For updated seasonal flu and syndromic surveillance bulletins from the Health Protection Agency, please follow the links below:


To aid local planning, listed below are the Local Resilience Forum (LRFs) matched against their regions.

<table>
<thead>
<tr>
<th>NHS Region</th>
<th>NSWW Region</th>
<th>Local Resilience Forum</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>North East England</td>
<td>Durham and Darlington</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Northumbria</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cleveland</td>
</tr>
<tr>
<td>Yorkshire and the Humber</td>
<td>Humber</td>
<td>North Yorkshire</td>
</tr>
<tr>
<td></td>
<td></td>
<td>West Yorkshire</td>
</tr>
<tr>
<td></td>
<td></td>
<td>South Yorkshire</td>
</tr>
<tr>
<td>North West England</td>
<td>Cumbria</td>
<td>Greater Manchester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lancashire</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Merseyside</td>
</tr>
<tr>
<td>West Midlands</td>
<td>Staffordshire</td>
<td>Warwickshire</td>
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<tr>
<td></td>
<td></td>
<td>West Mercia</td>
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<tr>
<td></td>
<td></td>
<td>West Midlands</td>
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<tr>
<td>East Midlands</td>
<td>Leicestershire</td>
<td>Derbyshire</td>
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<td></td>
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<td>Leicestershire</td>
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<td></td>
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<td>Lincolnshire</td>
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<td>Northamptonshire</td>
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<td></td>
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<td>Nottinghamshire</td>
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<tr>
<td>East of England</td>
<td>Bedfordshire</td>
<td>Bedfordshire</td>
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<td></td>
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<td>Cambridgeshire</td>
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<td>Essex</td>
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<td>Hertfordshire</td>
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<td></td>
<td>Norfolk</td>
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<td></td>
<td></td>
<td>Suffolk</td>
</tr>
<tr>
<td>South East England</td>
<td>Sussex</td>
<td>Sussex</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kent</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Surrey</td>
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<tr>
<td></td>
<td></td>
<td>Thames Valley</td>
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<td>Hampshire and Isle of Wight</td>
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<td>South West England</td>
<td>Devon</td>
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<td>Cornwall &amp; Isles of Scilly</td>
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<td>Dorset</td>
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<td>Gloucestershire</td>
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<td>Wiltshire and Swindon</td>
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<td>London</td>
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</tbody>
</table>
The Cold Weather Plan for England 2013: Protecting health and reducing harm from cold weather

Figure 2.5 Typical cascade of cold weather alerts

Notes:
‡ NHS England area teams and CCGs should work collaboratively to ensure that between them they have a cascade mechanism for cold weather alerts to all providers of NHS commissioned care both in business as usual hours and the out-of-hours period in their area.

* PHE centres would be expected to liaise with directors of public health to offer support, but formal alerting would be expected through usual local authority channels.
3. Summary of Cold Weather Plan levels and actions

The issue of a Cold Weather Alert should trigger a series of actions by different organisations and professionals as well as the general public. The tables that follow summarise the actions to be taken by different organisations and groups from the previous section in order to respond to the alert level, be it preparing for, or responding to, an actual episode of severe cold weather.

3.1 Using the action tables

The actions outlined in the tables are illustrative. Local areas should consider these as guides when developing local cold weather preparedness arrangements. The CWP for England is a broad framework and local areas need to tailor the suggested actions to their local situation and ensure that they have the best fit with wider local arrangements.

The tables emphasise the importance of joint working across agencies including the voluntary and community sector, and highlight one of the aims of the plan, which is to ensure that there is an integrated response to cold weather across sectors. Local areas will need to consider those actions indicated in the tables which will need to be taken jointly across organisations and sectors.

Local organisations are asked to consider the action tables and to recast the suggested actions in ways that are most appropriate for them. NHS, local authorities, LHRPs and LRFs should assure themselves that cold weather response plans are in place for the coming winter as part of wider preparedness and response plans to extreme climate events. Section 5 highlights the overarching next steps which NHS and local authorities should take to ensure that the Cold Weather Alerts are being disseminated and acted upon locally.

It is also worth reiterating:

- the actions for each alert level are not intended to be an “all or none” situation. Staff and organisations are expected to develop action plans which make sense to them using these as a broad template. Staff would be expected to exercise professional judgement in a “clinical” setting with a patient or client and respond appropriately to that patient's needs
- staff are requested to be much more aware of the effects of cold weather on health and when they notice a service user at risk from for example, a cold home, that they know what actions to take to ensure safety and that there are clear guidelines for
them to refer onwards to appropriate organisations who are able advise on energy efficiency, heating and financial benefits

- a system-wide approach is needed to assessing the nature of the problem and addressing these across organisations locally that makes most effective and efficient use of resources. Local areas may also wish to refer to an earlier DH toolkit *How to reduce the risk of seasonal excess deaths systematically in vulnerable older people at population level.*¹² This is designed to help local communities to take a systematic approach to reduce the risk of seasonal excess deaths in older people.

Please refer to the glossary of abbreviations and note that both NHS England and PHE have sub-national arrangements for liaison, communication, co-ordination and response during emergency events and how they in turn work with local providers of NHS commissioned care and local authorities.
The Cold Weather Plan for England 2013: Protecting health and reducing harm from cold weather

**Figure 3.1: Commissioners of health and social care (all settings) and local authorities**

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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</thead>
<tbody>
<tr>
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<td><strong>Winter preparedness and action</strong></td>
<td><strong>Severe winter weather is forecast – Alert and readiness</strong></td>
<td><strong>Severe weather action</strong></td>
<td><strong>Major incident – Emergency response</strong></td>
</tr>
<tr>
<td>All year</td>
<td>1 November to 31 March</td>
<td>Mean temperatures of 2°C and/or widespread ice and heavy snow predicted with 60% confidence</td>
<td>Mean temperatures of 2°C and/or widespread ice and heavy snow</td>
<td>Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.</td>
</tr>
<tr>
<td>Work with partner agencies to ensure that cold weather planning features within wider winter resilience planning.</td>
<td>Communicate public health media messages (see executive summary).</td>
<td>Continue to communicate public health messages.</td>
<td>Continue to communicate public health messages.</td>
<td>Response likely to involve:</td>
</tr>
<tr>
<td>Work with partners to ensure a strategic approach to the reduction of EWDs and fuel poverty is taken across the local health and social care economy.</td>
<td>Consider the revisions to the 2013 CWP and ensure that the changes are understood across the system.</td>
<td>Communicate alerts to staff and make sure that they can take appropriate actions.</td>
<td>Communicate alerts to staff and make sure that winter plans are in operation.</td>
<td>• national government departments</td>
</tr>
<tr>
<td>Work with partner agencies to:</td>
<td>Work with partner agencies to co-ordinate locally appropriate cold weather plans.</td>
<td>Ensure partners, including all managers of care, residential and nursing homes are aware of the alerts and can access advice.</td>
<td>Ensure key partners are undertaking action in response to alerts.</td>
<td>• executive agencies</td>
</tr>
<tr>
<td>• develop a shared understanding of EWDs and what partners can do to reduce them</td>
<td>Ensure key partners, including all managers of care, residential and nursing homes are aware of the alert system and can access advice.</td>
<td>Support local community organisations to activate community emergency plans.</td>
<td>Support local community organisations to mobilise community emergency plans.</td>
<td>• public sector, including health sector</td>
</tr>
<tr>
<td>• identify those most at risk from seasonal variations</td>
<td>Review the distribution of the alerts across the system and ensure staff are aware of winter plans and advice.</td>
<td>Activate business continuity arrangements and emergency plans as required.</td>
<td>Ensure continuity arrangements for working with provider organisations.</td>
<td>• voluntary sector</td>
</tr>
<tr>
<td>• improve winter resilience of those at risk</td>
<td>Ensure that local organisations and professionals are taking appropriate actions in light of the cold weather alerts in accordance with local and national CWP.</td>
<td>Consider how to make best use of available capacity, for example by using community beds for at risk patients who do not need an acute bed and enabling access to step-down care and reablement.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td>All level 3 responsibilities must be maintained during a level 4 incident</td>
</tr>
<tr>
<td>• ensure a local, joined-up programme is in place to support improved housing, heating and insulation, including uptake of energy efficient, low carbon solutions</td>
<td>Ensure that organisations and staff are prompted to signpost vulnerable clients onwards (eg for energy efficiency measures, benefits or related advice).</td>
<td>Liaise with providers of emergency shelter for homeless people to agree plans for severe weather and ensure capacity to scale up provision.</td>
<td>Implementation of national emergency response arrangements by central government</td>
<td></td>
</tr>
<tr>
<td>• achieve a reduction in carbon emissions and assess the implications of climate change</td>
<td>Consider how to make best use of available capacity, for example by using community beds for at risk patients who do not need an acute bed and enabling access to step-down care and reablement.</td>
<td>Support communities to help those at risk. Support the development of community emergency plans.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting preparations are in place to allow access to critical services and pedestrian hotspots.</td>
<td></td>
</tr>
<tr>
<td>Consid er how your winter plans can help to reduce health inequalities, target high risk groups and address the wider determinants of health.</td>
<td>Communicate public health media messages (see executive summary).</td>
<td>Consider the revisions to the 2013 CWP and ensure that the changes are understood across the system.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td></td>
</tr>
<tr>
<td>Ensure that organisations and staff are prompted to signpost vulnerable clients onwards (eg for energy efficiency measures, benefits or related advice).</td>
<td>Consider the revisions to the 2013 CWP and ensure that the changes are understood across the system.</td>
<td>Work with partner agencies to co-ordinate locally appropriate cold weather plans.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td></td>
</tr>
<tr>
<td>Work with partners and staff on risk reduction awareness (eg flu vaccination for staff in September/October), information and education.</td>
<td>Consider how to make best use of available capacity, for example by using community beds for at risk patients who do not need an acute bed and enabling access to step-down care and reablement.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td></td>
</tr>
<tr>
<td>Engage with local CVS organisations for planning and implementation of all stages of the plan.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
<td>Work with partner agencies (eg transport) to ensure road/pavement gritting arrangements are in effect to allow access to critical services and pedestrian hotspots.</td>
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## Figure 3.2: Provider organisations – health and social care (community services, hospitals, care homes, prisons)

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<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
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</thead>
<tbody>
<tr>
<td><strong>Long-term planning</strong>&lt;br&gt; All year</td>
<td>Winter preparedness and action&lt;br&gt;1 November to 31 March</td>
<td>Severe winter weather is forecast - Alert and readiness&lt;br&gt;Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 60% confidence</td>
<td>Severe weather action&lt;br&gt;Mean temperatures of 2°C and/or widespread ice and heavy snow</td>
<td><strong>Major incident – Emergency response</strong></td>
</tr>
<tr>
<td>Ensure that you are engaged with local EPRR and other strategic arrangements.&lt;br&gt;Ensure that your organisation can identify those most vulnerable to cold weather and draw up plans for joined-up support with partner organisations. Agree data-sharing arrangements within information governance principles.&lt;br&gt;Assess the longer-term implications of climate change; reduction in carbon emissions; and sustainability for longer-term business continuity. Consider how to best mobilise and engage community organisations and support the development and implementation of community emergency plans.&lt;br&gt;Make sure that staff have identified all those vulnerable to cold weather and that arrangements are in place to support them appropriately.&lt;br&gt;Work with staff on risk reduction awareness, information and education. Encourage staff to be vaccinated against flu before winter starts.&lt;br&gt;Ensure that the business continuity plan includes severe winter weather. Plan for a winter surge in demand for services.&lt;br&gt;Consider carers needs and support they can continue to give.&lt;br&gt;Work with environmental health officers on HHSRS hazard identification.</td>
<td>Ensure that CW alerts are going to the right staff and appropriate actions are agreed and able to be implemented, especially to protect vulnerable clients. Make sure that staff have identified all those vulnerable to cold weather and that arrangements are in place to support them appropriately.&lt;br&gt;Ensure staff are undertaking appropriate home checks when visiting clients, eg room temperature; medications and food supplies.&lt;br&gt;Hospitals and care, residential and nursing homes: ensure that rooms, particularly living rooms and bedrooms are kept warm (Section 4.1 and Section 4.2) and that staff are taking appropriate action to protect residents from cold weather.&lt;br&gt;Work with partner agencies to co-ordinate cold weather plans; ensure data sharing and referral arrangements are in place.&lt;br&gt;Continue to work with staff on risk reduction awareness, information and education. Encourage staff to be vaccinated against flu, if not already.&lt;br&gt;Work with local authority teams to identify accident hotspots on pavements or roads, advise on gritting priorities to prevent accidents, and ensure access by utilities and other essential services.&lt;br&gt;Ensure staff aware of the business continuity plan for winter weather; plan for a winter surge in demand.&lt;br&gt;Ensure carers are receiving advice and support.</td>
<td>Communicate alerts to staff and ensure that locally agreed CWP actions take place, especially those to protect vulnerable patients/clients.&lt;br&gt;Continue to ensure local actions for the vulnerable such as:&lt;ul&gt;&lt;li&gt;arranging daily contacts/visits&lt;/li&gt;&lt;li&gt;ensuring staff are undertaking appropriate home checks when visiting clients, eg room temperature; medications and food supplies&lt;/li&gt;&lt;li&gt;ensure carers are receiving appropriate advice and support.&lt;/li&gt;&lt;/ul&gt;Hospitals and care, residential and nursing homes: continue to ensure that rooms, particularly living rooms and bedrooms are kept warm (Section 4.1 and Section 4.2).&lt;br&gt;Activate business continuity arrangements and emergency plans as required. Activate plans to deal with a surge in demand for services.</td>
<td>Communicate alerts to staff and ensure that locally agreed actions take place, esp those to protect vulnerable patients/clients.&lt;br&gt;Implement local plans for contacting the vulnerable. Consider daily visits/phone calls for high-risk individuals living on their own who have no regular contacts.&lt;br&gt;Ensure carers are receiving appropriate advice and support.&lt;br&gt;Hospitals and care, residential and nursing homes: continue to ensure that rooms, particularly living rooms and bedrooms are kept warm (Section 4.1 and Section 4.2).&lt;br&gt;Activate business continuity arrangements and emergency plans as required. Activate plans to deal with a surge in demand for services.</td>
<td>Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.&lt;br&gt;All level 3 responsibilities must be maintained during a level 4 incident. Implementation of national emergency response arrangements by central government. Continue to implement business continuity arrangements.</td>
</tr>
</tbody>
</table>
Figure 3.3: Frontline staff – health and social care, community and voluntary sector (including care homes)

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
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<tbody>
<tr>
<td><strong>Long-term planning</strong></td>
<td><strong>Winter preparedness and action</strong></td>
<td><strong>Severe winter weather is forecast - Alert and readiness</strong></td>
<td><strong>Severe weather action</strong></td>
<td><strong>Major incident – Emergency response</strong></td>
</tr>
<tr>
<td>All year</td>
<td>1 November to 31 March</td>
<td>Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 60% confidence</td>
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<td></td>
</tr>
<tr>
<td>Work within your organisation and with partner organisations to ensure that systems are developed to support the identification and sharing of information between agencies of people who may be vulnerable to cold weather.</td>
<td>Identify those at risk on your caseload and make necessary changes to care plans for high-risk groups.</td>
<td>As appropriate, contact those most at risk and implement care plans.</td>
<td>As appropriate, contact those at risk (visit, phone call) daily.</td>
<td>Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.</td>
</tr>
<tr>
<td>Systematically work to improve the resilience of vulnerable people to severe cold.</td>
<td>For those with multiple agency inputs, ensure that the key worker is clearly identified and care plans consider measures to reduce risk from cold weather.</td>
<td>Continue to check client’s room temperature if visiting to ensure that clients are warm.</td>
<td>Ensure staff can help and advise clients.</td>
<td>Continue actions as per level 3 unless advised to the contrary.</td>
</tr>
<tr>
<td>Ensure that all staff have been made aware of the cold weather plan and the dangers of cold weather to health and know how to spot signs and symptoms.</td>
<td>Check client’s room temperature if visiting. Ensure that they have at least one room which meets recommended room temperatures.</td>
<td>Ensure urgent signposting for those at risk (eg in cold housing) to appropriate services.</td>
<td>Other actions as per level 2.</td>
<td></td>
</tr>
<tr>
<td>Use clinic attendances and home visits as opportunities to identify vulnerable people and discuss winter preparedness.</td>
<td>Remind clients of the actions they can take to protect themselves from the effects of severe cold; including warm clothing, warm food and drinks; keeping active as much as they are able within the context of their care plan.</td>
<td>Continue to “signpost” those at risk clients/ patients to other services (eg home insulation schemes; benefits entitlements) when identified in “clinical” situations.</td>
<td>Continue to remind clients of the actions they can take to protect themselves from the effects of severe cold.</td>
<td></td>
</tr>
<tr>
<td>Work with at-risk individuals, their families and carers to ensure that they are aware of the dangers of cold weather and cold housing and how access support; ensure that there are clear arrangements for “signposting” to other services (eg home insulation schemes; benefits entitlements) when identified in “clinical” situations.</td>
<td>Work with partners to ensure that vulnerable patients/clients have access to fuel supplies. Link to energy supplier priority service registers as required.</td>
<td>Use resources available to you for raising awareness of the health risks associated with winter weather and cold housing (for example, pharmacists have a key role in reminding people to have sufficient medicine and help with preventive medicines management).</td>
<td>Consider how forecast weather conditions may impact on your work – and make appropriate arrangements.</td>
<td></td>
</tr>
<tr>
<td>Work with partners to ensure that vulnerable patients/clients have access to fuel supplies.</td>
<td>Encourage clients and colleagues to be vaccinated against flu, if not already.</td>
<td>Make sure you and your teams are prepared for an influx of weather-related injuries and illnesses.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ensure that clients and colleagues are aware of, and taken advantage of flu and other vaccination programmes.</td>
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</table>
## Figure 3.4: GPs and practice staff

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<th>Level 4</th>
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<td><strong>Severe winter weather is forecast - Alert and readiness</strong></td>
<td><strong>Severe weather action</strong></td>
<td><strong>Major incident – Emergency response</strong></td>
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<tr>
<td>All year</td>
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<td>Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 60% confidence</td>
<td>Mean temperatures of 2°C and/or widespread ice and heavy snow</td>
<td>Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.</td>
</tr>
<tr>
<td>Be aware of emergency planning measures relevant to general practice. <a href="http://www.england.nhs.uk/ourwork/gov/eprr">www.england.nhs.uk/ourwork/gov/eprr</a></td>
<td>Staff training should include a specific session on the CWP and cold weather resilience where required, relevant and appropriate to local conditions.</td>
<td>Take advantage of clinical contacts to reinforce public health messages about cold weather and cold homes on health.</td>
<td>Be aware of a possible surge in demand in the days following a cold spell.</td>
<td>Continue actions as per level 3 unless advised to the contrary.</td>
</tr>
<tr>
<td>Promote flu immunisation to both staff and patients.</td>
<td>Consider how you can promote key public health messages in the surgery. For example, take advantage of clinical contacts to reinforce public health messages about cold weather and cold homes on health.</td>
<td>When prioritising visits, consider vulnerability to cold as a factor in decision making.</td>
<td>Ensure that staff are aware of cold weather risks and are able to advise patients appropriately.</td>
<td></td>
</tr>
<tr>
<td>Ensure GPs and staff are aware of local services to improve warmth in the home.</td>
<td>Get a flu jab to help protect you and your patients.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Consider training on seasonal weather and the identification of vulnerable individuals to help staff be more aware of the effects of cold weather on health; those groups of patients likely to be most vulnerable; and how they can signpost patients on to other services.</td>
<td>Consider using a cold weather scenario as a table-top exercise to test your business continuity arrangements.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consider utilisation of tools to aid systematic identification of vulnerable individuals.</td>
<td>Be aware of systems to refer patients to appropriate services from other agencies.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consider using opportunistic approaches to signpost appropriate patients to other services when they present for other reasons. For example, flu jab clinics can be an opportunity to promote core public health messages with vulnerable individuals.</td>
<td>When making home visits, be aware of the room temperature in the household, and if required, know how to advise on levels that are of concern and as necessary, to signpost to other services.</td>
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</tbody>
</table>

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i Note: Individual practices will wish to consider the activities noted above; however these should ideally occur throughout a locality. As such they may be organised by practices collectively, organised by NHS England primary care commissioners, or they could be based within an individual practice.
## Figure 3.5: Community and voluntary sector

<table>
<thead>
<tr>
<th>Level 0</th>
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<td><strong>Severe weather action</strong>&lt;br&gt;Mean temperatures of 2°C and/or widespread ice and heavy snow</td>
<td><strong>Major incident – Emergency response</strong></td>
</tr>
<tr>
<td>Engage with local statutory partners to agree how the community and voluntary sector can contribute to the local community resilience arrangements</td>
<td>Test the community emergency plan to ensure that roles and responsibilities and actions are clear.</td>
<td>Activate the community emergency plan.</td>
<td>Implement community emergency plan.</td>
<td>Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.</td>
</tr>
<tr>
<td>Develop a community emergency plan to:</td>
<td>Set up rotas of willing volunteers to keep the community safe during inclement weather and to check on vulnerable people and neighbours.</td>
<td>Activate the business continuity plan.</td>
<td>Contact vulnerable people to ensure they are safe and well and support them to seek help if necessary.</td>
<td>Continue actions as per level 3 unless advised to the contrary.</td>
</tr>
<tr>
<td>• identify and support vulnerable neighbours in the winter</td>
<td>Support the provision of appropriate advice about the health risks of cold weather/cold housing especially with vulnerable people.</td>
<td>Continue to actively engage vulnerable people known to be at risk and check on welfare regularly and support them to seek help if necessary.</td>
<td>Ensure volunteers are appropriately supported.</td>
<td>Ensure volunteers are appropriately supported.</td>
</tr>
<tr>
<td>• assess the impact severe weather might have on the provision and use of usual community venues</td>
<td>Ensure that there is a business continuity plan for severe winter weather to ensure support can continue to be given to vulnerable people.</td>
<td>Stay tuned to the weather forecast.</td>
<td>Implement the business continuity plan.</td>
<td></td>
</tr>
<tr>
<td>• ensure that pavements and public walkways are cleared of snow and ice in the local community</td>
<td>Actively engage vulnerable people known to be at risk and check on welfare regularly and support them to seek help if necessary.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• agree support, resources and training to maximise effective use of volunteers</td>
<td>Support recruitment of volunteers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• support recruitment of volunteers</td>
<td>agree mechanisms for distributing food, fuel, emergency heating, health, social care and other provision to vulnerable people</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>• review emergency housing and hostel provision</td>
<td>agree arrangements with other community groups to maximise contact with vulnerable people.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• agree arrangements with other community groups to maximise contact with vulnerable people.</td>
<td>identify available services for vulnerable people and agree signposting arrangements with providers</td>
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</table>
### Level 0

*Long-term planning*

*All Year*

The Cabinet Office will take the lead on coordinating and working across government to prepare for winter weather. Individual government departments will work with their partners on winter preparations.

National implementation of the National Adaptation Programme report actions will continue, improving protection from severe weather events.

DH, PHE and NHS England will look to improve monitoring and analysis of winter-related illness and deaths and evaluate the CWP.

PHE and NHS England will issue general advice to the public and professionals and work closely with the NHS, other government departments and other national organisations that produce winter warmth advice and support to ensure maximum reach.

### Level 1

#### Winter preparedness and action

*1 November to 31 March*

Preparations will be the overall responsibility of PHE in collaboration with the Met Office, NHS England, DH and local bodies.

PHE and NHS England will make advice available to the public and professionals as appropriate via NHS Choices, NHS England, DH (GovNet), and Met Office websites.

NHS England will ensure national guidance is cascaded to local services, and identify organisations most vulnerable to cold weather.

NHS England will continue to hold health services to account for taking appropriate actions to prepare for cold weather.

Cold Weather Alerts will be sent by the Met Office to the agreed list of organisations as illustrated in figure 2.5. PHE and NHS England will cascade the alerts to sub-national units within their organisations.

DH will liaise with Cabinet Office and other government departments to ensure agreed responses are mobilised as required. DCLG will share information with LRFs.

PHE will routinely monitor syndromic, influenza, norovirus and mortality surveillance data.

### Level 2

#### Severe winter weather is forecast - Alert and readiness

**Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 80% confidence**

A level 2 alert will be sent by the Met Office to the agreed list of organisations and Category 1 responders as noted in Figure 2.4.

Central government departments, which should then cascade the information through their own stakeholder networks and frontline communication systems.

DH will ensure other government departments, particularly DCLG RED, are aware of the change in alert level and brief ministers as appropriate.

PHE will make advice available to the public and professionals in affected regions via NHS Choices, NHS England, DH (GovNet), and Met Office websites.

NHS England will continue to hold health services to account for taking appropriate actions to prepare for cold weather.

PHE will continue to monitor syndromic, influenza, norovirus and mortality surveillance data.

### Level 3

#### Severe weather action

**Mean temperatures of 2°C and/or widespread ice and heavy snow**

As per level 2 arrangements.

Met Office will continue to monitor and forecast temperatures in each area, including the likely duration of the period of severe winter weather, the likely temperature to be expected and the probability of other regions exceeding the level 3 threshold.

NHS England will muster mutual aid when requested by local services.

PHE will continue to monitor syndromic, influenza, norovirus and mortality surveillance data.

### Level 4

#### Major incident – Emergency response

Level 4 alert issued at national level in light of cross-government assessment of the weather conditions, coordinated by the Civil Contingencies Secretariat (CCS) based in the Cabinet Office.

Response likely to involve:

- national government departments
- executive agencies
- public sector, including health sector
- voluntary sector

Implementation of national emergency response arrangements by central government.

### Figure 3.6: National level: NHS England, PHE, DH, Met Office, other government departments

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Long-term planning</strong></td>
<td><strong>Winter preparedness and action</strong></td>
<td><strong>Severe winter weather is forecast - Alert and readiness</strong></td>
<td><strong>Severe weather action</strong></td>
<td><strong>Major incident – Emergency response</strong></td>
</tr>
<tr>
<td><em>All Year</em></td>
<td><em>1 November to 31 March</em></td>
<td><strong>Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 80% confidence</strong></td>
<td><strong>Mean temperatures of 2°C and/or widespread ice and heavy snow</strong></td>
<td><strong>Level 4 alert issued at national level in light of cross-government assessment of the weather conditions, coordinated by the Civil Contingencies Secretariat (CCS) based in the Cabinet Office.</strong></td>
</tr>
</tbody>
</table>
### Figure 3.7: Individuals

<table>
<thead>
<tr>
<th>Level 0</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
</table>
| **Long-term planning** | **Winter preparedness and action**  
1 November - 31 March | **Severe winter weather is forecast - Alert and readiness**  
Mean temperatures of 2°C and/or widespread ice and heavy snow is predicted with 60% confidence | **Severe weather action**  
Mean temperatures of 2°C and/or widespread ice and heavy snow | **Major incident – Emergency response** |
| All Year | Seek good advice about improving the energy efficiency of your home and staying warm in winter; undertake energy efficiency improvements to your home or encourage your landlord to do so. Seek advice from your local authority environmental health department if as a tenant your heating is defective or you cannot affordably heat your home. Check your entitlements and benefits; seek income maximisation advice to get benefits and other services; seek advice from your fuel supplier or local advice provider if you have fuel debt or difficulties paying for or affording sufficient fuel. Ask your fuel supplier about their Priority Service Register for vulnerable customers, what this provides and if you are eligible. Check that your heating is working properly; make sure that you have access to sufficient fuel supplies for the winter period especially if you rely on oil, LPG or wood deliveries. Consider alternative heating measures if required. Have all gas, solid fuel and oil burning appliances (ie boilers, heaters, cookers) serviced by an appropriately registered engineer. Malfunctioning appliances can release carbon monoxide – a gas that can kill. Have flues and chimneys checked for blockages and swept if needed. Fit an audible carbon monoxide alarm (EN50291 compliant). Get a flu jab if you are in a risk group (Sept/Oct). | Find good information about health risks. Try NHS choices at www.nhs.uk.  
If you are receiving social care or health services ask your GP, key worker or other contact about staying healthy in winter and services available to you. Make sure you have a list of emergency numbers if you need to call for assistance or advice during cold weather. Check room temperatures – especially those rooms where disabled or vulnerable people spend most of their time (see box 3.1)  
If you or someone else is likely to be restricted to one room during the winter period or during a cold spell make sure that it can be kept at or above recommended temperatures and that you plan what resources you/they need to keep them safe and warm – seek energy advice as necessary. Protect water pipes from freezing by insulating them. Look out for vulnerable neighbours and help them prepare for winter (eg with key contact numbers for emergency situations). Ensure they have access to warm food and drinks and are managing to heat their home adequately. Consider other preventive action you can take (eg perhaps volunteering to help implement the community emergency plan). | Continue to have regular contact with vulnerable people and neighbours you know to be at risk in cold weather – ensure they have access to warm food and drinks and are managing to heat their home adequately.  
Stay tuned into the weather forecast and ensure you are stocked with food and medications in advance (have deliveries or ask a friend to help).  
Take the weather into account when planning your activity over the following days. Avoid exposing yourself to cold or icy outdoor conditions if you are at a higher risk of cold-related illness or falls.  
Discuss with friends and neighbours about clearing snow and ice from in front of your house and public walkways nearby, if you are unable to do this yourself. | Stay tuned into the weather forecast. Maintain daytime room temperature to 21°C and bedroom night-time temperature to at least 18°C.  
If you have to go out, dress warmly and wear non-slip shoes. Tell someone where you are going and when you will get back. Keep your mobile phone (if you have one) on you and charged. Dress warmly, eat warm food and take warm drinks regularly; keep active. Check on those you know are at risk. If you are concerned about your own health or that of others, alert emergency services. Clear pavements of ice or snow if you are able and if it is essential. | Central government will declare a level 4 alert in the event of severe or prolonged cold weather affecting sectors other than health.  
Follow key public health and weather alerts messages as broadcast on the media. |
Box 3.1: Recommended indoor temperatures

<table>
<thead>
<tr>
<th>Indoor temperature</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>21°C (70 °F)</td>
<td>Minimum recommended daytime temperature for rooms occupied during the day</td>
</tr>
<tr>
<td>18°C (65 °F)</td>
<td>Minimum recommended night-time temperature for bedrooms. No health risk, though may feel cold</td>
</tr>
</tbody>
</table>

*These recommended temperatures have been derived from a number of policy documents and research papers. While they provide a useful guide on which to base indoor temperatures, it is appreciated that variations within the general population will exist due to pre-existing risk factors.

Vulnerable groups (such as the very old and very young) are advised by the World Health Organization (Health impact of low indoor temperatures: Report on a WHO meeting, Copenhagen, 11-14 November 1985. Copenhagen: WHO, 1987) to have indoor temperatures set to 21°C.
4. Monitoring and surveillance

4.1 Near real time monitoring and surveillance

PHE, in collaboration with other agencies, provides information on excess mortality and morbidity due to cold weather. Much of this is recorded in as near “real-time” as possible to provide agencies with a source of intelligence on how health is affected by cold weather and to guide urgent public health action.

Information on cold weather-related illnesses and mortality will be included in routine weekly surveillance bulletins, links to which will be posted on the PHE winter health watch webpage each week. A summary of the findings of the surveillance suitable for a non-technical audience will be presented; further detail can be obtained by clicking through to the relevant bulletins:

- **syndromic surveillance**: PHE will routinely monitor outputs from real-time syndromic surveillance systems including calls to NHS 111, GP in hours and out of hours consultations, and emergency department attendances for the impact of cold weather-related morbidity using a range of syndromic health indicators. A weekly routine weekly syndromic surveillance bulletin and summary report is produced throughout the year

- **seasonal influenza surveillance**: PHE routinely analyses and collates influenza data from a variety of sources producing a national flu report once a week during the winter season

- **mortality surveillance**: PHE continues to carry out weekly surveillance of acute increases in mortality over and above what is expected for a given time of year. This is done through statistical modelling of weekly data provided by the Office for National Statistics (ONS) and is available by age-group and region

- **norovirus surveillance**: PHE will continue to monitor outbreak reports from hospitals and laboratory reports of cases of norovirus throughout the winter and will publish a weekly norovirus bulletin

4.2 NHS activity monitoring

NHS winter situation reports will be available on the NHS England website and will be published each week.

NHS England will continue to monitor and publish A&E weekly activity reports each week, as it does routinely throughout the year.
4.3 The Public Health Outcomes Framework

The Public Health Outcomes Framework sets out desired outcomes and indicators to help us understand how well public health is being improved and protected. PHE publishes data in an online tool that allows local authorities to compare themselves with other authorities in the region and benchmark themselves against the England average.

Two PHOF outcome indicators are directly linked to efforts to reduce harm from cold: excess winter deaths (4.15) and fuel poverty (1.17), although up to 17 others can be linked to long-term planning for cold weather (see section 4 of the companion document Making the Case).

The PHOF EWD indicator is produced by age-group at “lower tier” local authority level, allowing comparison between local authorities and examination of trends over time. It is based on ONS estimates of EWDs published annually in November of each year, which compares the number of winter deaths (deaths occurring in December to March) with the average of non-winter deaths. This data is not timely enough to guide urgent public health action, but is important for longer-term monitoring, commissioning and advocacy.

4.4 Evaluation

PHE will work with DH to prepare an annual review of the CWP, which takes place each summer. PHE and DH will work to incorporate the final recommendations from the independent evaluation of the plan being undertaken by PIRU LSHTM when complete.
5. Recommended next steps for the NHS and local authorities

The Cold Weather Plan for England 2013/14 is a good-practice document and the actions denoted are illustrative. It is up to each local authority and its NHS partners to consider the actions in this plan; adapt them and incorporate them as appropriate to the local situation, as a component of wider winter planning arrangements. Local teams from NHS England and PHE are there to support, advise and co-ordinate these arrangements as required.

In light of the guidance and good practice recommendations made in the CWP for England 2013, there are five key messages for all local areas:

1. All local authorities, NHS commissioners and their partner organisations should consider the CWP for England 2013 and satisfy themselves that the suggested actions and the Cold Weather Alert service are understood across their locality. Local cold weather and winter plans should be reviewed in light of this plan.

2. NHS and local authority commissioners should review or audit the distribution of the Cold Weather Alerts across the local health and social care systems to satisfy themselves that the alerts reach those that need to take appropriate actions, immediately after issue. Figure 2.5 is an illustrative diagram showing a cascade of a Cold Weather Alert message. Local areas need to adapt these to their particular situations and ensure that the cascades are working appropriately.

3. NHS and local authority commissioners should assure themselves that organisations and key stakeholders are taking appropriate actions in light of the Cold Weather Alert messages. The actions identified in section 3 are based on the best evidence and practice available, but are illustrative. It is for local areas to amend and adapt this guidance and to clarify procedures for staff and organisations in a way which is appropriate for the local situation. As ever, it is for professionals to use their judgement in any individual situation to ensure that they are doing the best they can for their patient or client.

4. The community and voluntary sector can help reduce vulnerability and support the planning and response to cold weather, particularly through identifying and engaging vulnerable people. NHS and local authority commissioners and providers, should take opportunities for closer partnership working with these groups.
5. Reducing excess winter illness and death is not something that can be tackled in the winter alone. It requires a long-term strategic approach by HWBs, directors of public health and commissioners to assess needs and then commission, plan and implement interventions. Action to reduce cold-related harm should be considered core business by HWBs and included in JSNAs and JHWSs.
Appendix 1: The impact of cold weather on health

The impact of cold weather on health is predictable and mostly preventable. Direct effects of winter weather include an increase in incidence of:

- heart attack
- stroke
- respiratory disease
- influenza
- falls and injuries
- hypothermia

Indirect effects of cold include mental health illnesses such as depression, and carbon monoxide poisoning from poorly maintained or poorly ventilated boilers, cooking and heating appliances and heating.

For the purposes of this plan, key groups considered to be particularly at-risk in the event of severe cold weather are summarised in Figure A.1. Further information on the effects of cold on health can be found in Making the Case.

Fig A.1: Groups at greater risk of harm from cold weather

- older people (over 75 years old)
- otherwise “frail” older people*
- children under the age of five
- people with pre-existing chronic medical conditions such as heart disease, stroke or TIA, asthma, chronic obstructive pulmonary disease or diabetes
- people with mental ill-health that reduces individual’s ability to self-care (including dementia)
- people with learning difficulties
- people assessed as being at risk of, or having had, recurrent falls
- people who are housebound or otherwise low mobility
- people living in deprived circumstances
- people living in houses with mould
- people who are fuel poor
- elderly people who live alone and do not have additional social services support
- homeless or people sleeping rough
- other marginalised groups

* Persons, usually older, who have impairment of their activities of daily living. The frailty phenotype or a frailty index can be used to quantify frailty. Frailty in primary care: a review of its conceptualization and implications for practice Alethea Lacas and Kenneth Rockwood BMC Medicine 2012, 10:4 doi:10.1186/1741-7015-10-4
Appendix 2: Identifying vulnerable people

The action tables in section 3 suggest that health and social care teams consider how they might identify vulnerable individuals. This appendix details a number of ongoing initiatives to improve the identification of vulnerable people by these services, although it is acknowledged that vulnerable people not already in receipt of health and social care services can be difficult to identify and support. Involvement of the community and voluntary sector, particularly those that engage with these groups, is crucial.

Opportunistic approaches

Teams may wish to consider opportunistic approaches to signpost potentially vulnerable patients to appropriate services when they present for other reasons eg the Making Every Contact Count Programme (MECC), developed in the Yorkshire and the Humber region. It provides frontline staff with behavioural change interventions training. It focuses on providing an informed choice for individuals but with the understanding of the wider determinants of health approach and that behaviour change is not easy for anyone. The MECC programme understands that affordable warmth fits within the context of healthy lifestyles. Partnership referral schemes are strengthened by using this approach. Hence the entire NHS workforce (frontline staff) across the region is being skilled to have “healthy chats” which include affordable warmth alongside alcohol, diet, exercise and smoking, etc but bespoke to the individual. The NHS is investing in e-learning resources and a mobile app for staff that will include affordable warmth.

The research pilot undertaken for MECC illustrated that empowering staff with the confidence and competence to have these conversations is especially important as personalising the information and understanding an individual’s motivation is critical to bringing about behaviour change. Another approach is to train frontline staff on locally available multi-partnership referral schemes where the frontline worker completes a simple referral card on behalf of the client, posts it into a central ‘hub’ from where the client is then approached by the required agency to offer advice and/or support.

The affordable warmth charity, National Energy Action (NEA), has previously worked with other partnership referral schemes across the country with frontline staff. NEA advocates asking three key questions at contact assessment stages to identify those who are at risk of living in fuel poverty and in cold homes.

The following questions are currently being asked by a wide number of agencies:

1. Is your whole house warm in winter? (This question helps to identify how people are heating their home and whether they are limiting heating to certain rooms).
2. Can you afford to heat your home to a comfortable level? (This question helps to identify whether occupants are meeting ‘minimum’ recommended temperatures all the time).
3. Can you afford to pay your fuel bills? (This question will flag whether someone has sufficient income to spend on the fuel they need for warmth and comfort).

Toolkits

The Excess Seasonal Deaths Toolkit\textsuperscript{12} was produced by DH to help local communities to take a systematic approach to reduce the risk of seasonal excess deaths in older people.

The Keeping Warm in Later Life project (KWILLT) has recently demonstrated that knowledge and awareness of safe temperatures, and the health impact of cold were low across study population participants. Moreover, older people’s values and beliefs can interact in such a way that they often end up being cold at home. The segmentation model which was developed by the team can illustrate the diversity of older people at risk of living in a cold home. It can be used as a reflective tool at a clinical and strategic level to identify and refer vulnerable older people. KWILLT pen portraits and e-learning materials and are available at kwillt.org.

Winter Warmth England – Preparation for Winter. This website provides a suite of resources for the public and professionals. It contains pre-tested messages, images and materials to support interventions that are reaching the right people at the right time; whether this is managers, frontline and community health and social care staff (including community and voluntary sector) the media and crucially, the vulnerable. Key tools include a prompt sheet for community staff visiting homes to pick up on visual and behavioural clues as to whether a person is living in a cold home.

Fuel poverty and health – a guide for primary care organisations, and public health and primary care physicians is available on the Faculty of Public Health website. This is expected to be updated in the near future.

Shared practice

The Warm Homes Healthy People Evaluation (WHHP) 2012-13\textsuperscript{13} has shown that the identification of vulnerable people continues to be a challenge – specifically people who are socially isolated or do not engage with services – but several innovative methods were used to improve identification and engagement. Further detail is available in the Making the Case document (section 5).

Data sharing between partner organisations is seen as key to identifying vulnerable people, but can be a challenge to targeting interventions. Some approaches that seem to have worked well is where there is an agreement about the value of a single point of referral, when identifying vulnerable residents using multiple agencies (eg Islington’s SHINE project).
People in receipt of benefits, assisted bin collection lists (where people are unable to move their waste bins from home to the street), mapping, local knowledge from parish councils and village agent schemes, priority users registers (energy companies) and other data sources were used as additional means of identifying potential recipients of WHHP funded interventions.

Healthy Homes on Prescription is a scheme set up in partnership with GPs and Liverpool City Council using a software system alert to identify patients vulnerable to cold weather. GPs have access to co-ordinated hub systems where vulnerable patients can be referred – with their consent – to the Liverpool City Council Healthy Homes scheme and other partners for help and advice on energy efficiency, debt assistance, benefits checks, home safety checks and other interventions.

National Institute for Health and Care Excellence (NICE) guidance

NICE guidance on reducing excess winter deaths is expected to be published in January 2015. It is expected to include an assessment of the evidence surrounding systems and strategies to identify vulnerable and at-risk populations, and the impact they have.

The guidance will provide recommendations for good practice, based on the best available evidence of effectiveness, including cost effectiveness. It is aimed at commissioners, managers and practitioners with public health as part of their remit working within the NHS, local authorities and the wider public, private, voluntary and community sectors. It may also be of interest to members of the public.
Appendix 3: Public health core messages

These are the core messages to be broadcast as official PHE warnings alongside national and regional weather forecasts. They may be expanded or otherwise refined in discussion with broadcasters and weather presenters.

Level 1: Winter preparedness and action

This is in force from 1 November to 31 March and indicates that actions should be taking place to protect health from cold weather, and that preparations should be in place to ensure service continuity in the event of severe winter weather. No warning is required, unless the situation worsens to warrant a level 2 alert. A spell of chilly weather might warrant a message along the lines of:

“If this does turn out to be a spell of severe cold weather, we’ll try to give you as much warning as possible. But in the meantime, if you want advice about protecting your health from the cold go to the winter health pages at NHS Choices (www.nhs.uk). If you are worried about your health or that of somebody you know, ring NHS 111.”

Level 2: Alert and readiness

The Met Office, in conjunction with PHE, is issuing the following cold weather warning for [regions identified]:

“If severe cold weather can be dangerous, especially for the very young or very old or those with chronic disease. Advice on how to reduce the risk either for yourself or somebody you know can be obtained from the winter health pages at NHS Choices (www.nhs.uk) or from your local chemist. If you are worried about your health or that of somebody you know, ring NHS 111.”

Level 3 and 4: Severe cold weather action/emergency

The Met Office, in conjunction with PHE, is issuing the following severe cold weather advice for [regions identified]:

“Make sure that you stay warm. If going outside make sure you dress appropriately. If indoors, make sure that you keep your heating to the right temperature (18°C/65°F (bedroom) and 21°C/70°F (dayroom)). If there is anyone you know who might be at special risk, for example, an older person living on their own, make sure they know what to do to stay warm and are well stocked with food and medications. If you are worried about your health or that of somebody you know, ring NHS 111”
Acknowledgements

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References


