

Für Mensch & Umwelt

Umwelt 
Bundesamt

GHHIN First Global Forum on Heat and Health
17 – 20 December 2018 in Hong Kong

Panel 2: Regional Innovations and Actions

Examples from Europe

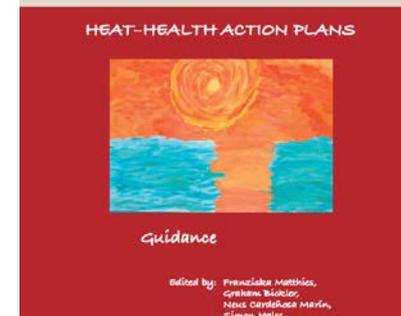


Francesca De' Donato/**ITALY**, Klea Katsouyanni/**GREECE**, Vladimir Kendrovski/**WHO EURO**
Sari Kovats/**UNITED KINGDOM**, Karine Laaidi/**FRANCE**, and Hans-Guido Mücke/**GERMANY**

on behalf of WHO EURO

I. Heat Health Action Plans in 18 European countries

Country	Year	Lead body	Alert system	Information plan	Indoor heat reduction	Vulnerable groups	Health care prepared-ness	Urban planning	Real-time surveillance	Evaluation
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WHO Region	No. Countries identified to have HHAPs	% total HHAPs by Region	% Countries with HHAPs	No. of countries in Region
Eastern Mediterranean	1	2%	5%	21
Europe	35	74%	66%	53
Americas	2	4%	6%	35
South East Asia	5	11%	45%	11
Africa	4	9%	11%	37
Total	47	-	30%	157

Regional distribution of HHAPs. Data in this table was obtained from the Global Heat Health Information Network Database. Information displayed was obtained via a systematic review of online HHAPs which was undertaken by the WHO and World Meteorological Organization Climate and Health Office in August 2017. (GHIN, 2018)

Source: Kingdon et al. 2017

green (in place); yellow (in preparation); red (none/open)

Sources: Bittner et al. 2014 and WHO/EURO 2017

II. Real-time Heat Health Surveillance, e.g. in France and Italy

ASSESSMENT 2. HEALTH ASSESSMENT



HEALTH OUTCOMES MORTALITY



Year	Average excess mortality	% average excess mortality
2018	1 641	14.9 %
2017	474	5.4 %
2016	378	13.0 %
2015	1 739	17.6 %

- Major impact: >75 years old
- Workers: 12 deaths in 2018
- Children < 15 years old: 48 deaths in 2015 (early HW)
- Geographical discrepancy characteristics of the HW, distribution of the population measures

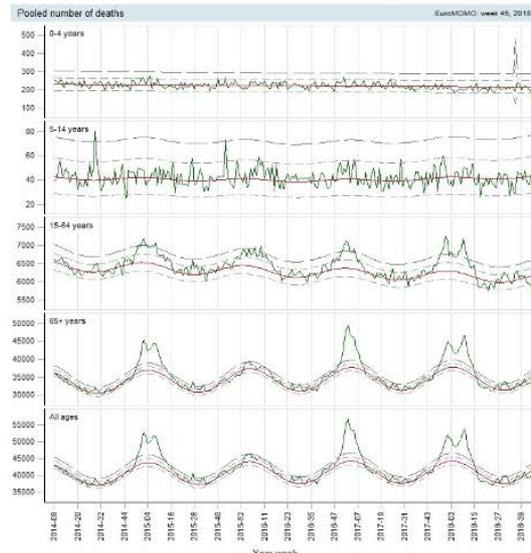
Rapid mortality surveillance system (SISMG)

34 cities included: regional capitals and cities with > 200,000 inhabitants



SISMG: Ministry of Health weekly mortality surveillance bulletin.

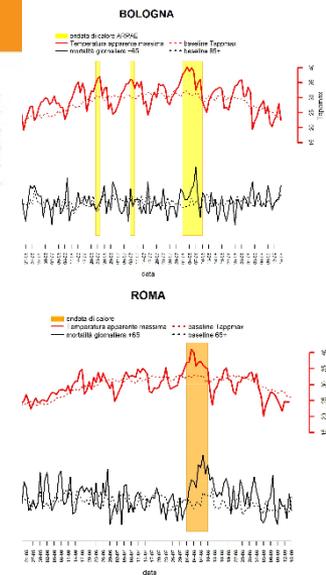
Euromomo european mortality surveillance network



<http://www.euromomo.eu/>

18 European countries: Belgium, Denmark, Estonia, France, Finland, Germany, Greece, Ireland, Italy, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, UK

Summer 2017 heat waves.



III. Heat Health Actions at Urban Scales, e.g. in Italy

Italian heat health prevention network

Heat warning system – «Caldo e Salute» APP



PUBLIC HEALTH PREVENTION AND GUIDANCE

PUBLIC HEALTH PREVENTION AND GUIDANCE

LOCAL HEAT PREVENTION PLANS

LOCAL INFORMATION CAMPAIGNS



IV. Challenges, policies and bodies in Europe



The overall public health challenges of projected future heat extremes (WHO/EURO 2018)

- increased heat health risks in overaged, vulnerable population groups, mostly in Western Europe
- increased heat stress in highly urbanized, densely populated areas (urban heat island)
- growing impact on work practices and labour productivity
- strengthen the
- intensify the

Climate change and health in the European Environment and Health Process

Policies and

- European Environment and Health Process
- the 5th EHP
- > European
- na
- EHP Ostrava



EEH Bonn/D

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Policies and bodies – European Union/EU (28 MS)

- European Directorates: e.g. DG Climate; DG Environment; DG Health, DG Res&Development
- EU Strategy on Adaptation to Climate Change (2013): to make Europe climate resilient

V. Considering research as one part for future actions

extrema

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<p>Your Risk Through the mobile app, you receive a personalized heat stress risk for your current location and recommendations on measures to reduce your risk.</p>	<p>Cooling Centers The EXTREMA app provides navigation information, by foot or public transit, to the nearest cooling center and helps you choose the right one for you.</p>	<p>Multiple Profiles The app supports multiple users. This is so useful when you want to check the elderly, just enter their profile and location and get their extreme temperature risk estimation.</p>
<p>Satellite Based City authorities will get real-time images/maps of extreme temperature hazard distribution in their city, together with other relevant variable, like humidity and discomfort index</p>	<p>Next Day Alerts City authorities will get a one day advance alert for expected extreme temperatures (based on meteoalarm.eu) to allow for proper respond and management of the cooling centres.</p>	<p>City Dashboard Cities will receive an information management tool for the cooling centers, including the ability to change opening hours, capacity, contact information, and add more centers in a particular area.</p>



Future WHO/EURO actions (2018 – 2020)

- Coherent Review of Evidence and Heat Health Action Plan Guidance (2008) and of Public Health Advice on preventing heat health effects (2011)
- including latest methodological knowledge, e.g. on evaluation (PIRU,UK)

