

## Cold weather and fewer sun hours are associated with increased rates of alcoholic cirrhosis

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Credit: Marina Shemesh/public domain

New data presented today at The International Liver Congress 2017 in Amsterdam, The Netherlands, suggests that colder and less sunny regions of the world have higher rates of alcoholic cirrhosis, a disease caused by excessive drinking international team of scientists analysing data from over 190 countries found that every increase in temperature of one degree Celsius was linked with a decrease in the alcohol-attributable fraction (AAF\*) of cirrhosis of 0.3%. Heavy alcohol intake causes a perception of warmth, while fewer sunlight hours have been linked to depression which in turn, may lead to alcohol abuse. As a result, the researchers hypothesised that colder countries would have higher rates of alcohol consumption and therefore an increased burden of alcoholic cirrhosis.

Alcohol-attributable liver cirrhosis makes up around half of all causes of liver cirrhosis and is responsible for an estimated 493,000 deaths

globally every year, or 0.9% of deaths worldwide.1 According to the World Health Organization (WHO), Europe is the heaviest drinking region in the world in terms of the prevalence of alcohol consumption.2 Alcohol is also a major cause of <u>liver disease</u>, including liver cirrhosis, which accounts for 1.8% of all deaths in Europe or around 170,000 deaths per year.3

"Our research reveals that a country's climate and geographical location have a startling influence on the burden of liver cirrhosis," said Dr Neil D. Shah, lead author of the study, and senior author, Dr Ramon Bataller, from the University of North Carolina, Chapel Hill, United States. "As average temperatures and yearly hours of sunshine decrease and latitude increases, rates of alcoholattributable cirrhosis increase. This suggests that drinking alcohol excessively to combat the cold and dark could put people at increased risk of suffering from <u>alcoholic cirrhosis</u>."

regions of the world have higher rates of alcoholic cirrhosis, a disease caused by excessive drinking which results in irreversible scarring of the liver. An international team of scientists analysing data from over 190 countries found that every increase in temperature of one degree Celsius was linked with a decrease in the alcohol-attributable fraction (AAF\*) of cirrhosis of 0.3%. Heavy alcohol intake causes a perception of warmth, while fewer

> In the univariate analysis conducted by researchers, there was an inverse association between mean average temperature, mean annual sunshine hours and a positive association with absolute latitude (p



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