

The impact of cannabis use on the incidence of psychosis

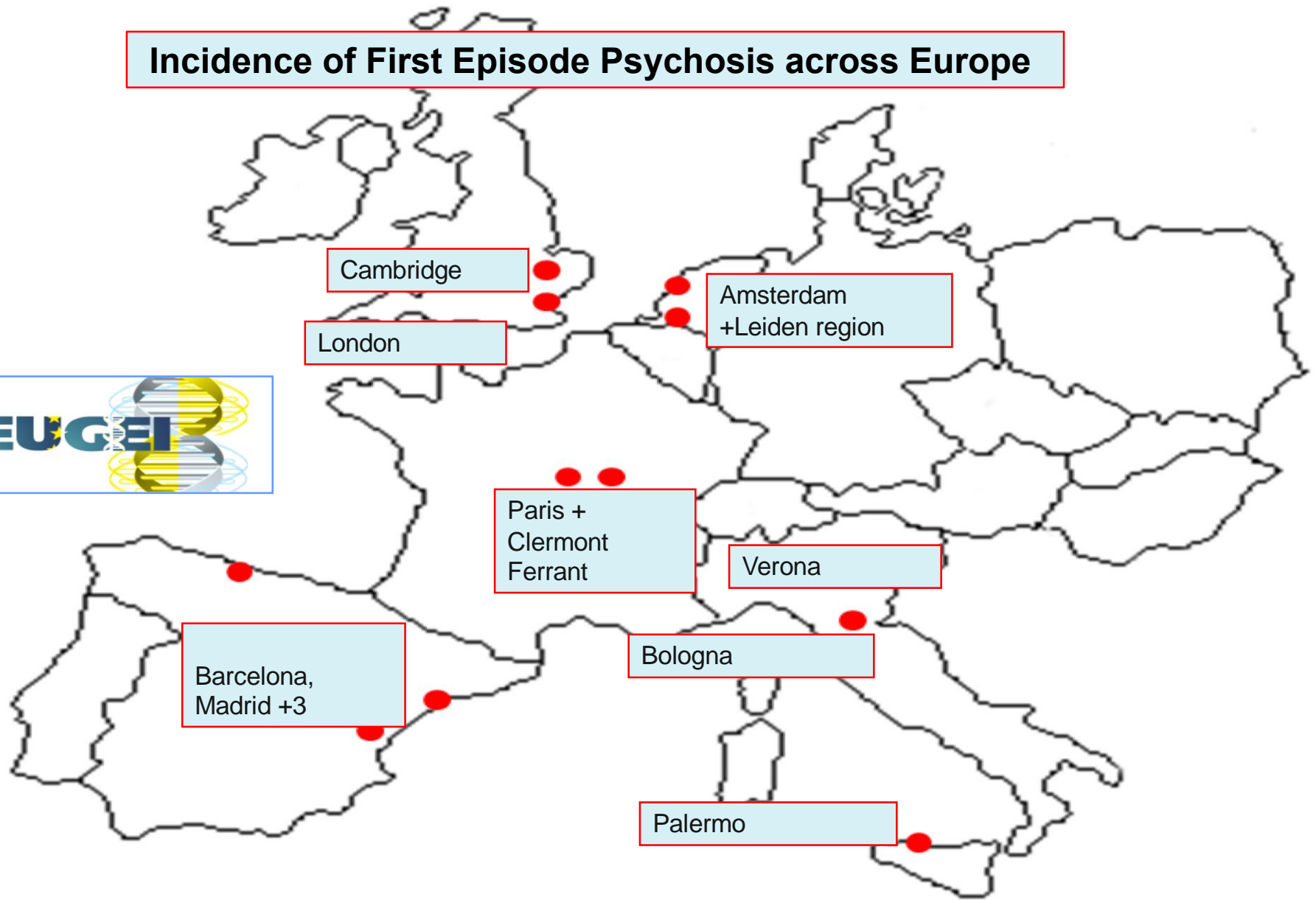
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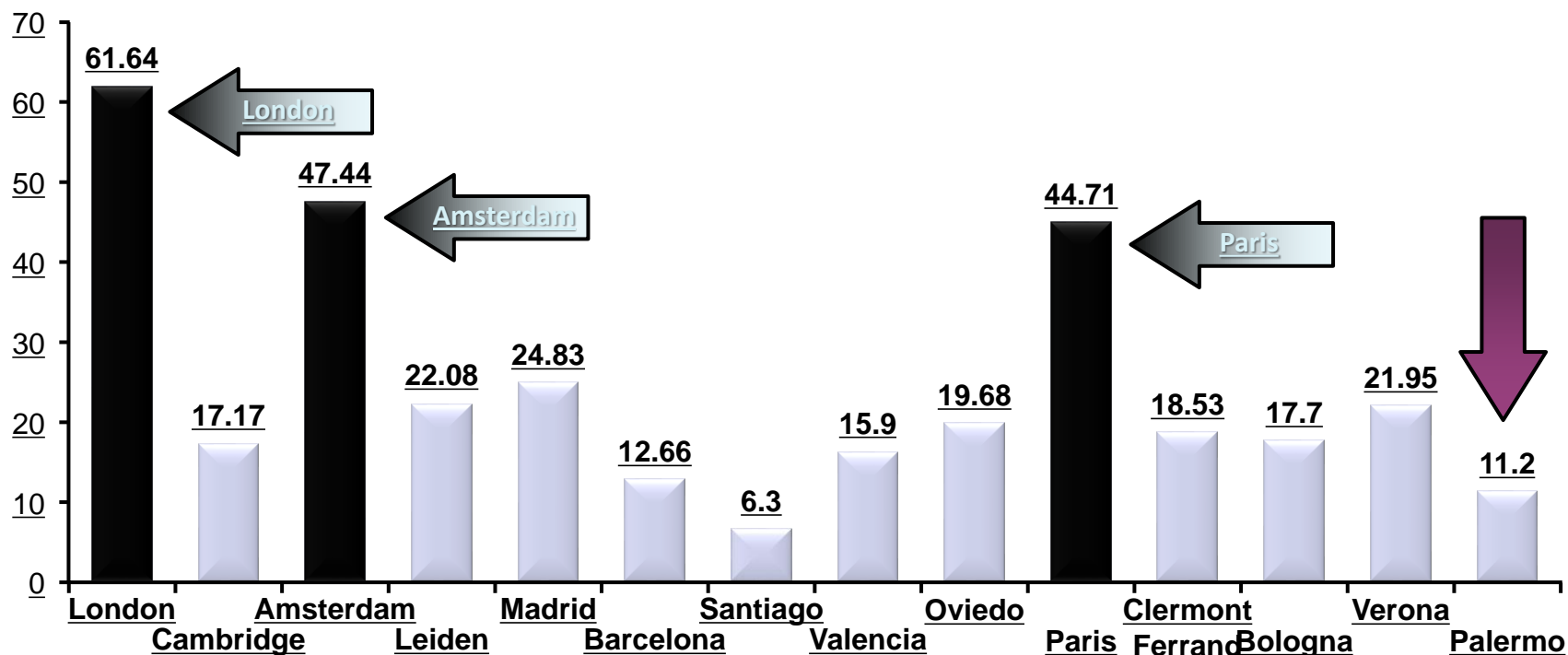
Does the Incidence of Psychosis
vary?

Incidence of First Episode Psychosis across Europe

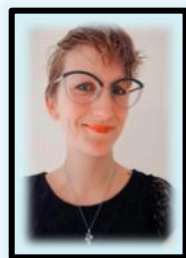




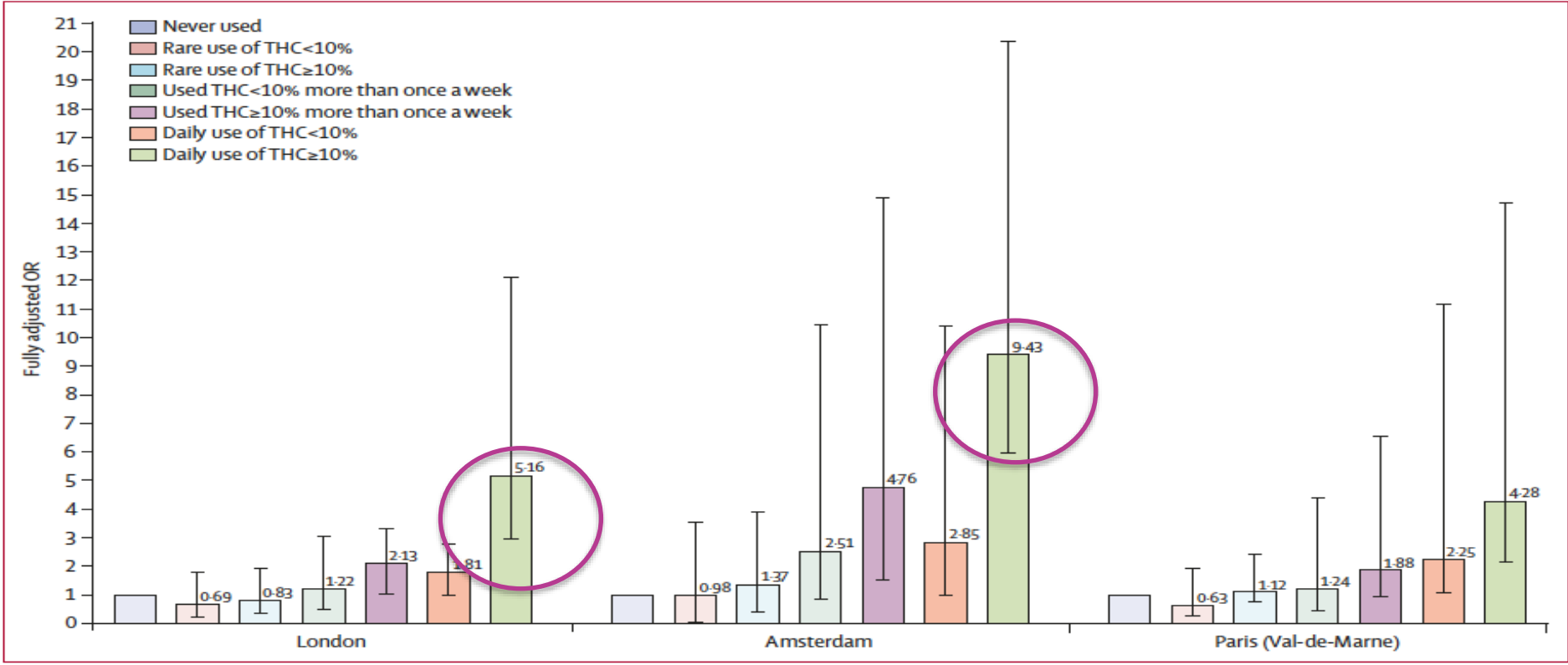
Incidence of first episode psychosis across Europe



[Jongsma et al. JAMA Psychiatry 2018](#)



The effect of daily use of high-potency cannabis on the odds for psychotic was particularly visible in **London and Amsterdam**

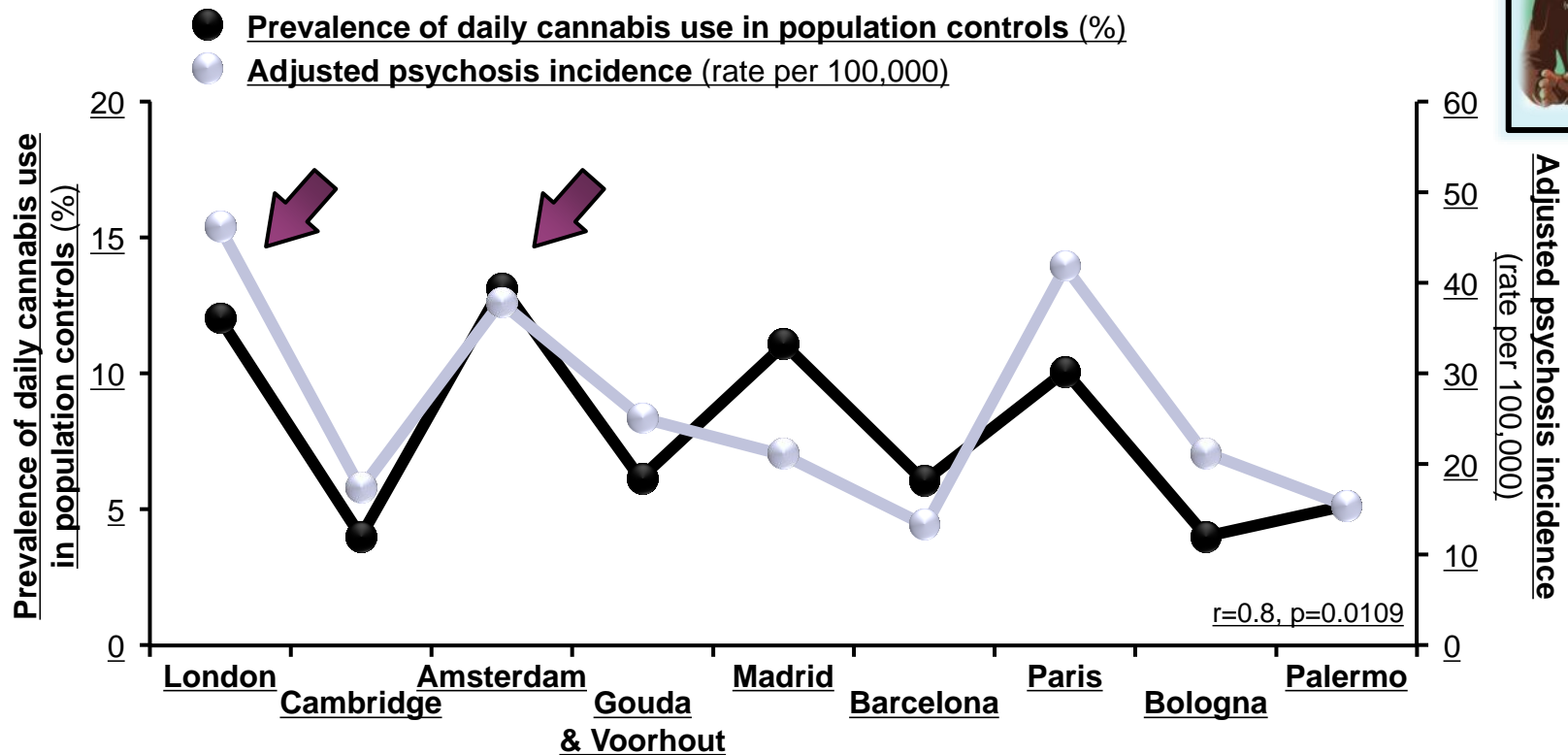


*Adjusted for age, gender, ethnicity, level of Ed, employment status and other drugs (tobacco, alcohol, stimulants, Ketamine, Legal highs, Hallucinogenics).



Di Forti et al, Lancet Psych, On Line March 23 2019

Relationship between the frequency of cannabis use and the rate of psychosis



Population Attributable Fraction

If nobody smoked high potency cannabis, 12% of all cases of first episode psychosis across Europe would be prevented, rising to 32% in London and 50% in Amsterdam

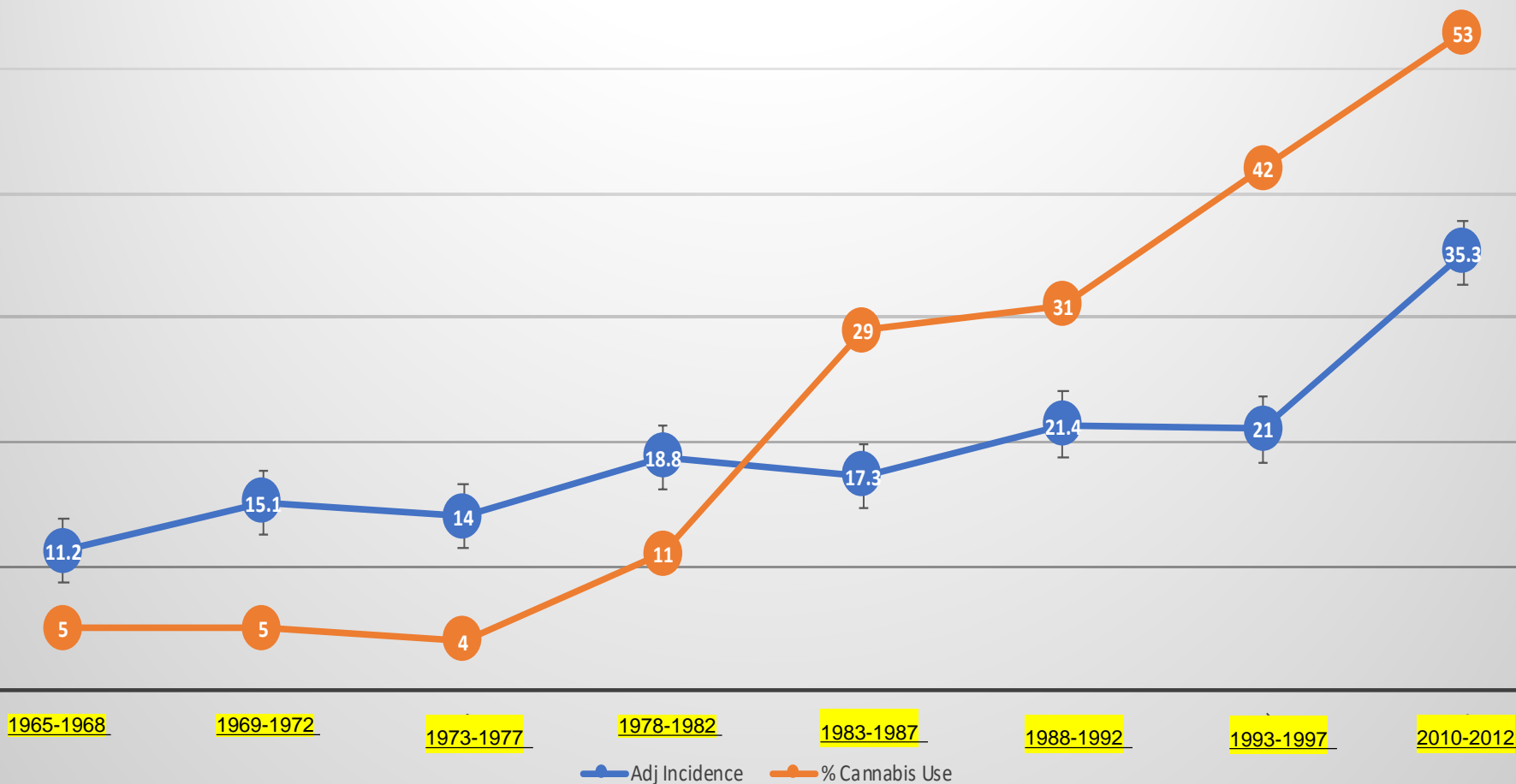
But has the incidence of psychosis always been high in South London?

David Castle and then Jane Boydell reviewed all first episode cases of psychosis (FEP) presenting between 1965 and 1997 in people living in Camberwell. Then they applied RDC Criteria for Schizophrenia

Now Diego Quattrone has repeated this exercise for all FEP cases from Camberwell presenting in 2011-2012.



50-year changes of Schizophrenia incidence in South London



Boydell J Psychol Med. 2006, 36,1441-6
Quattrone D Unpublished data

Changes in Incidence of psychosis over time

1. The incidence of cannabis-induced psychosis more than doubled in Denmark between 2006 and 2016 - Hjorthøj et al, 2019
2. Rates of inpatient hospitalizations with cannabis-induced psychosis in Canada tripled from 2006-2015 – Malloney-Hall et al, 2020
3. Cannabis was decriminalized in Portugal in 2001. From 2002 till 2015, the proportion of psychosis patients diagnosed as cannabis dependent rose from less than 1% to over 10%



Cannabis is a component cause of psychosis

Heavy cannabis use has a significant impact on the
incidence of psychosis

We need public campaigns to advise people of the risks
of daily use of high potency cannabis

Opinion

VIEWPOINT

**Will Legalization and Commercialization of Cannabis Use
Increase the Incidence and Prevalence of Psychosis?**

Robin Murray & Wayne Hall JAMA Psychiatry. On-line April 8th 2020

THANK YOU ALL FOR YOUR ATTENTION

Thanks to
Craig Morgan,
David Castle
and the GAP and
EU-GEI Teams



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