

# **Estimert endring i risiko for alvorleg covid-19 frå føre til to år etter fedmekirurgi**

# Grunnlag for risikoeestimat:



## Associations between body-mass index and COVID-19 severity in 6.9 million people in England: a prospective, community-based, cohort study



*Min Gao\*, Carmen Piernas\*, Nerys M Astbury, Julia Hippisley-Cox, Stephen O'Rahilly, Paul Aveyard†, Susan A Jebb†*

### Summary

**Background** Obesity is a major risk factor for adverse outcomes after infection with SARS-CoV-2. We aimed to examine this association, including interactions with demographic and behavioural characteristics, type 2 diabetes, and other health conditions.

*Lancet Diabetes Endocrinol*  
2021; 9: 350-59  
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## Associations of BMI with COVID-19 vaccine uptake, vaccine effectiveness, and risk of severe COVID-19 outcomes after vaccination in England: a population-based cohort study

Carmen Piernas, Martina Patone, Nerys M Astbury, Min Gao, Aziz Sheikh, Kamlesh Khunti, Manu Shankar-Hari, Sharon Dixon, Carol Coupland, Paul Aveyard, Julia Hippisley-Cox\*, Susan A Jebb\*



### Summary

**Background** A high BMI has been associated with a reduced immune response to vaccination against influenza. We aimed to investigate the association between BMI and COVID-19 vaccine uptake, vaccine effectiveness, and risk of severe COVID-19 outcomes after vaccination by using a large, representative population-based cohort from England.

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