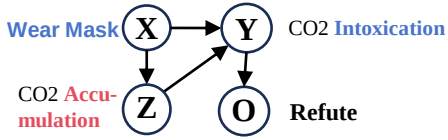
Claim Text

Carbon dioxide **intoxication** is caused by **wearing face masks.**

Evidence

"The prolonged use of medical masks can be **uncomfortable**. However, it does not lead to CO2 intoxication nor oxygen deficiency," the WHO says on its website.
"The CO2 **would pass** through the gaps around the side and through the face covering as CO2 (molecules are) much smaller than the fabric/mask materials," Dr Chan said.
The research tested CO2 levels and oxygen saturation before and after wearing a surgical mask on 15 physicians without lung conditions and 15 veterans with .....

Step 1 **Extract the Reasoning Graph**



Step 2 **Formalize Claim**

$$P(Y|do(X=1)) > 0$$

Step 3 **Gather All Relevant Data**

$p(X \to Z) = 0.05$ $\quad$ $p(Z \to Y) < 0.01$

Step 4 **Deduce and Calculate the Probability**

$$P(Y|do(X)) = \sum P(Y|Z)P(Z|do(X)) = 0.0005$$
$$P(O_{refute}|Y,X) = 1$$

Step 5 **Classify the Claim**

Contradictory evidence? Strong refutation.

$$X \to Z \to Y \to O_{refute}$$

Step 6 **Generate Explanation**

The tiny CO_2 molecules escape... Even for N95 .....Therefore, the proposed causal path X1 → Z → Y has very low edge weights, leading us to reject the claim.