- a. The variable di does not hold all the information required, since it s the totally onto the people to choose whether to follow the diet or not
- b. 1. X is exogenous and there is no relation between the error terms and X. This means, whether or not the individual lives in a region where the diet has been advertised is not correlated to the unexplained factors in the error term.
 - 2. b converges to β as n -> Y. This means that the advertising has a significant impact on the success of the individual's diet.
- c. No, we would more instruments.

d.

$$\frac{d}{dy} = \frac{1}{1 \cdot 2x} \left(\frac{1}{1 \cdot 2x} \right) \left(\frac{$$