

Zic Haris

neasurement enor · y; = health y; = B x " + u; ] x;" = income question 7: = in the second xi = xi + ei we see (x;,y;) not '(xi,yi) CEV assurptions · cor(xi, ei) = 0 5) Ideally, we would do OLS of y; on x; herane of G-M assuntion As we conit, we try ols of y; on ni

$$\frac{2\pi i}{2\pi i}$$

$$= \beta + \frac{1}{n} \sum_{x \neq i} x_i v_i$$

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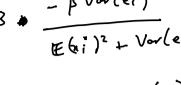
$$\hat{\beta} \stackrel{=}{\rightarrow} \beta + \frac{E \times i \vee i}{E \times i^{2}} \stackrel{\text{(b)}}{\otimes}$$

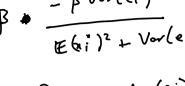
$$\begin{cases}
\lambda_{i} = \beta \times i + u_{i} \\
\lambda_{i} = \lambda_{i} \vee e_{i}
\end{cases}$$

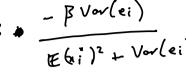
$$CEV: \quad Cov \left(e_{i, \lambda_{i}}\right) = 0 = E e_{i \times i} \\
Cov \left(e_{i, u_{i}}\right) = 0 = E e_{i \times i} \\
Cov \left(A_{i, B}\right) = E(AB) - (EA) (EB)
\end{cases}$$

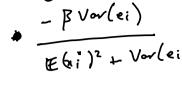
$$(1) : E(x_{i}^{2}) = E\left(x_{i}^{*} + e_{i}\right)^{2} = E\left((x_{i}^{*})^{2} + Zx_{i}^{*} e_{i} + e_{i}^{2}\right)$$

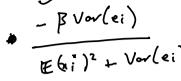
$$(2) : E(x_{i}^{2}) = E\left((x_{i}^{*} + e_{i})^{2}\right) = E\left((x_{i}^{*})^{2} + Zx_{i}^{*} e_{i} + e_{i}^{2}\right)$$

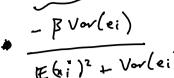


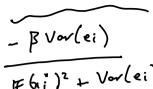




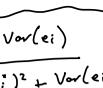


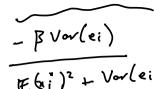










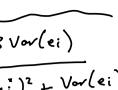


A = Vorlei)

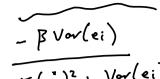
B = E(i) ?

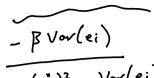
NO ME

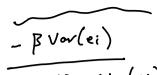
where  $\lambda \in [0,1]$  Attenuation Bios













Support; = \alpha\_1 + \alpha\_2 visite; + \alpha\_3 vie; + \alpha\_4 remar |; + \alpha\_5 dit; + \epsilon\_3 \]

visite; = \beta\_1 + \beta\_2 support i + \beta\_3 remar \( \alpha\_1 \); + \beta\_4 dut; + \epsilon\_3 \]

Structurally

Structurally

Show that support; is endoquous in the second equ. \( \text{tous} \) Support; =  $\alpha_1 + \alpha_2 (\beta_1 + \beta_2 \text{ Support}; + \beta_3 \text{ remore}; + \beta_4 \text{ dut};$ + E; 2) + 03 inc; + dy remor [; + ds dist; + E; (1-02 Bz) support: 10 = dz B1 + az B3 remorz: + (02 B4 + as) dit; + dz ine; + dy remort; + dz E;2 + E; 02 B2 7 1  $\alpha_{2}\beta_{2}\neq 1$   $\pi_{i}:=\frac{\alpha_{2}\beta_{2}}{1-\alpha_{2}\beta_{2}}$ Support:  $\pi_{i}:=\frac{\pi_{1}+\pi_{2} \text{ remov } 2_{i}+\pi_{3} \text{ dist}_{i}+\pi_{4} \text{ inc}_{i}}{1+\pi_{5} \text{ remov } 1_{i}+\nu_{i}}$ REDUCED FORM