$$\exp(A+B)=\exp(A)\cdot\exp(B) \quad \exp(AB)=\exp(A)^{B}=\exp(B)^{B}$$

$$\ln(GFR)=\beta_0+\beta_1\cdot\ln(CR)+E \qquad E\sim N(0,\sigma^2)$$

$$GFR=\exp\left[\beta_0+\beta_1\cdot\ln(CR)+E\right]$$

$$=\exp[\beta_0]\cdot\exp\left[\beta_1\cdot\ln(CR)\right]\cdot\exp[E]$$

$$=\exp[\beta_0]\cdot CR^{\beta_1}\cdot\exp[E]$$

$$Median(GFR)=\exp[\beta_0]\cdot\exp\left[\beta_1\cdot\ln(CR)\right]$$

$$=\exp[\beta_0]\cdot CR^{\beta_1}$$

$$95\%PI=Median/\exp(1.96\cdot\sigma);Median\cdot\exp(1.96\cdot\sigma)$$

$$\beta_1=-1\Leftrightarrow GFR=\exp(\beta_0)\cdot CR^{-1}\Leftrightarrow GFR\cdot CR=\text{constant}$$