$$\begin{array}{ll}
\mathcal{F}(y_{i}|\lambda_{i}) = \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})} = \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})} = \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})} \\
&= \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})^{1-R_{i}}} = \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})} \\
&= \frac{\int (y_{i},\lambda_{i})^{1-R_{i}}}{f(\lambda_{i})^{1-R_{i}}} = \frac{\int (y_{i},\lambda_{i})f(r)}{f(\lambda_{i})} = \frac{\int (y_{i}|\lambda_{i})f(r)}{f(\lambda_{i})} \\
y_{i}|\lambda_{i} \sim N\left(M^{*} = M_{i} + \frac{O_{1}}{O_{1}}\left(\lambda_{i} - M_{i}\lambda_{i}\right), \quad O^{*} = O_{22} - \frac{O_{1}2^{2}}{O_{1}}\right) \\
f(y_{i}|\delta_{0s_{i}}) = (2\pi\sigma^{*})^{\frac{1}{2}} \exp \left\{\frac{1}{2} - \frac{1}{2}\frac{e^{2}}{O_{1}}\left(y_{i} - M^{*}\right)^{2}\right\} dy, \\
f(y_{i}|\delta_{0s_{i}}) = (2\pi\sigma^{*})^{\frac{1}{2}} \left(2\pi\sigma^{*}\right)^{\frac{1}{2}} \left(2\pi\sigma^{*}\right)^{\frac{1}{2}} \left(2\pi\sigma^{*}\right)^{\frac{1}{2}} \int dx_{i} \\
&= (2\pi\sigma^{*})^{\frac{1}{2}} \left(2\pi\sigma^{*}\right)^{\frac{1}{2}} \left(1-R_{i}\right)^{\frac{1}{2}} M_{*} \\
&= (2\pi\sigma^{*})^{\frac{1}{2}} \left(1-R_{i}\right)^{\frac{1}{2}} M_{*}
\end{array}$$

Y= d+BX+2 E[YIN] = X + BX Yi Xi ~ ( My + O12 O11 (X-Mx), O2- O12 O11 O21)  $\alpha + \beta \chi \stackrel{\text{set}}{=} \mu_{\gamma} + \sigma_{12} \sigma_{11}(\chi - \mu_{\chi})$  $= (\mu_{Y} - \mu_{X} \sigma_{12} \sigma_{11}) + \sigma_{12} \sigma_{11} X$ 0 E(4) = 124 E(Q+ (SX+ e) = d+ BMX) Val( d+ (3x+12) = (32 Val(x) + Val(2) = (320 11 1 Val(2)) 0 Vac(4) = 822 3) (or (X,4) = or = CalX, dx(Bx+a) = BCox(X) = BOIN B 812= 6011 > 15= 512 1) My = at (5,00x =) a= M1 - 60x= My - 312 Mx (1) My= (1000) = (1000) = On- (2011 = On)
(2) On= (320) = On- (320