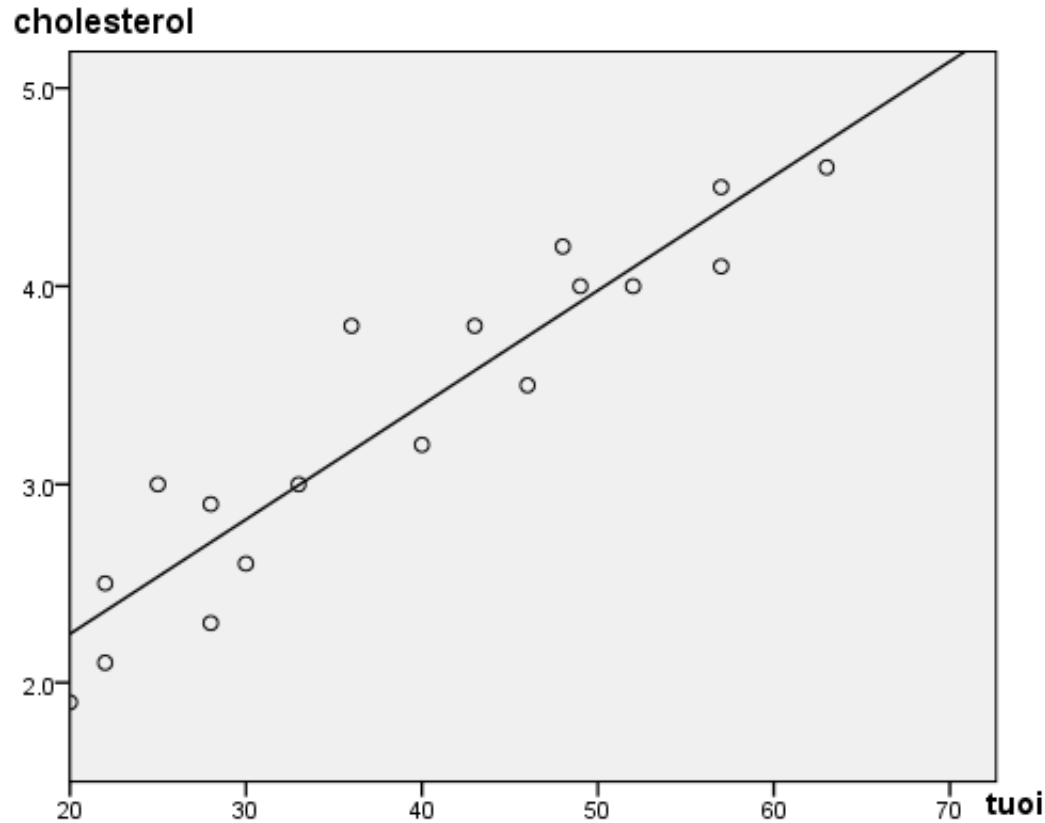


MÔ HÌNH HỒI QUI TUYỂN TÍNH ĐA BIẾN

HỒI QUI ĐA BIẾN

| id | tuoi | chedoan | theduc | cholesterol |
|----|------|---------|--------|-------------|
| 1 | 46 | 6 | 2 | 3.5 |
| 2 | 20 | 5 | 14 | 1.9 |
| 3 | 52 | 7 | 1 | 4.0 |
| 4 | 30 | 5 | 3 | 2.6 |
| 5 | 57 | 9 | 1 | 4.5 |
| 6 | 25 | 3 | 5 | 3.0 |
| 7 | 28 | 3 | 9 | 2.9 |
| 8 | 36 | 6 | 3 | 3.8 |
| 9 | 22 | 2 | 12 | 2.1 |
| 10 | 43 | 4 | 3 | 3.8 |
| 11 | 57 | 3 | 2 | 4.1 |
| 12 | 33 | 2 | 6 | 3.0 |
| 13 | 22 | 3 | 9 | 2.5 |
| 14 | 63 | 8 | 1 | 4.6 |
| 15 | 40 | 6 | 6 | 3.2 |
| 16 | 48 | 7 | 2 | 4.2 |
| 17 | 28 | 2 | 10 | 2.3 |
| 18 | 49 | 9 | 3 | 4.0 |

HỒI QUI TUYẾN TÍNH ĐƠN BIẾN



$$\text{Cholesterol (mmol/L)} = 1,089 + 0,058 * \text{Tuổi (năm)}$$

HỒI QUI TUYẾN TÍNH ĐƠN BIẾN

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .937 ^a | .877 | .870 | .3027 |

a. Predictors: (Constant), tuoi

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|---------|-------------------|
| 1 | Regression | 10.494 | 1 | 10.494 | 114.565 | .000 ^a |
| | Residual | 1.466 | 16 | .092 | | |
| | Total | 11.960 | 17 | | | |

a. Predictors: (Constant), tuoi

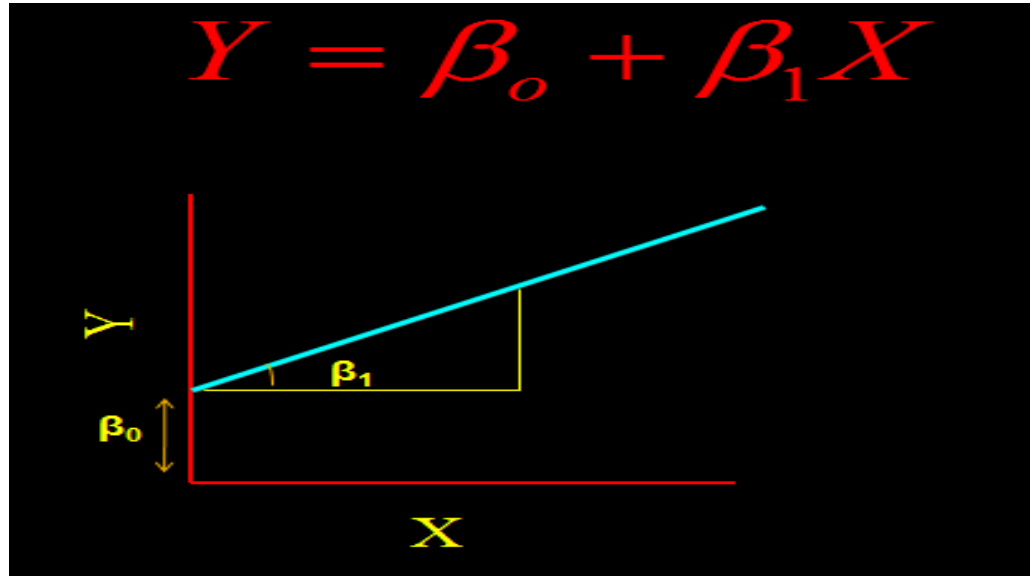
b. Dependent Variable: cholesterol

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 1.089 | .221 | | 4.918 | .000 |
| | tuoi | .058 | .005 | .937 | 10.704 | .000 |

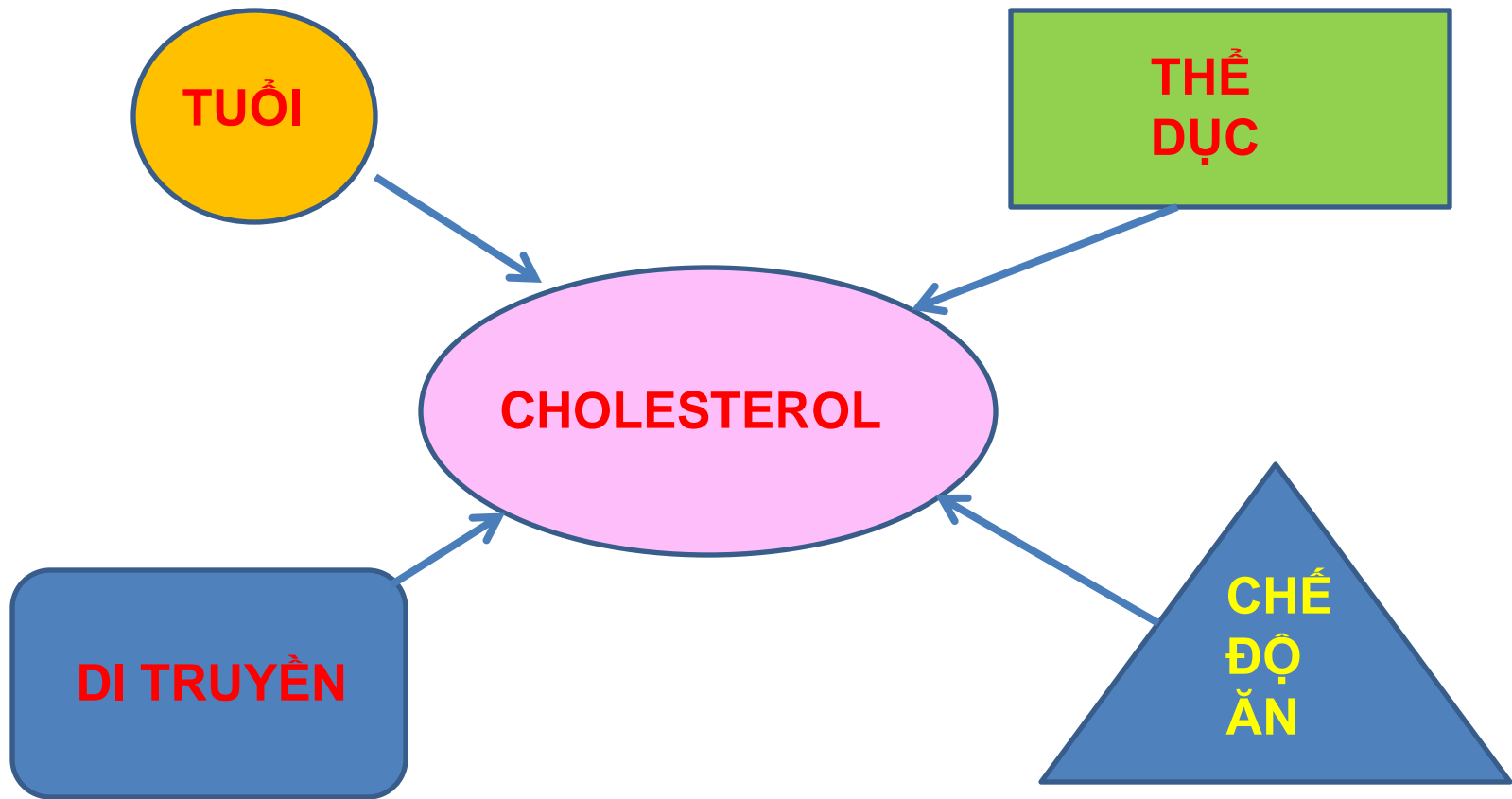
a. Dependent Variable: cholesterol

HỒI QUI TUYẾN TÍNH ĐƠN BIẾN



Cholesterol (mmol/L)= 1,089 + 0,058 *Tuổi (năm)

HỒI QUI TUYẾN TÍNH ĐA BIẾN

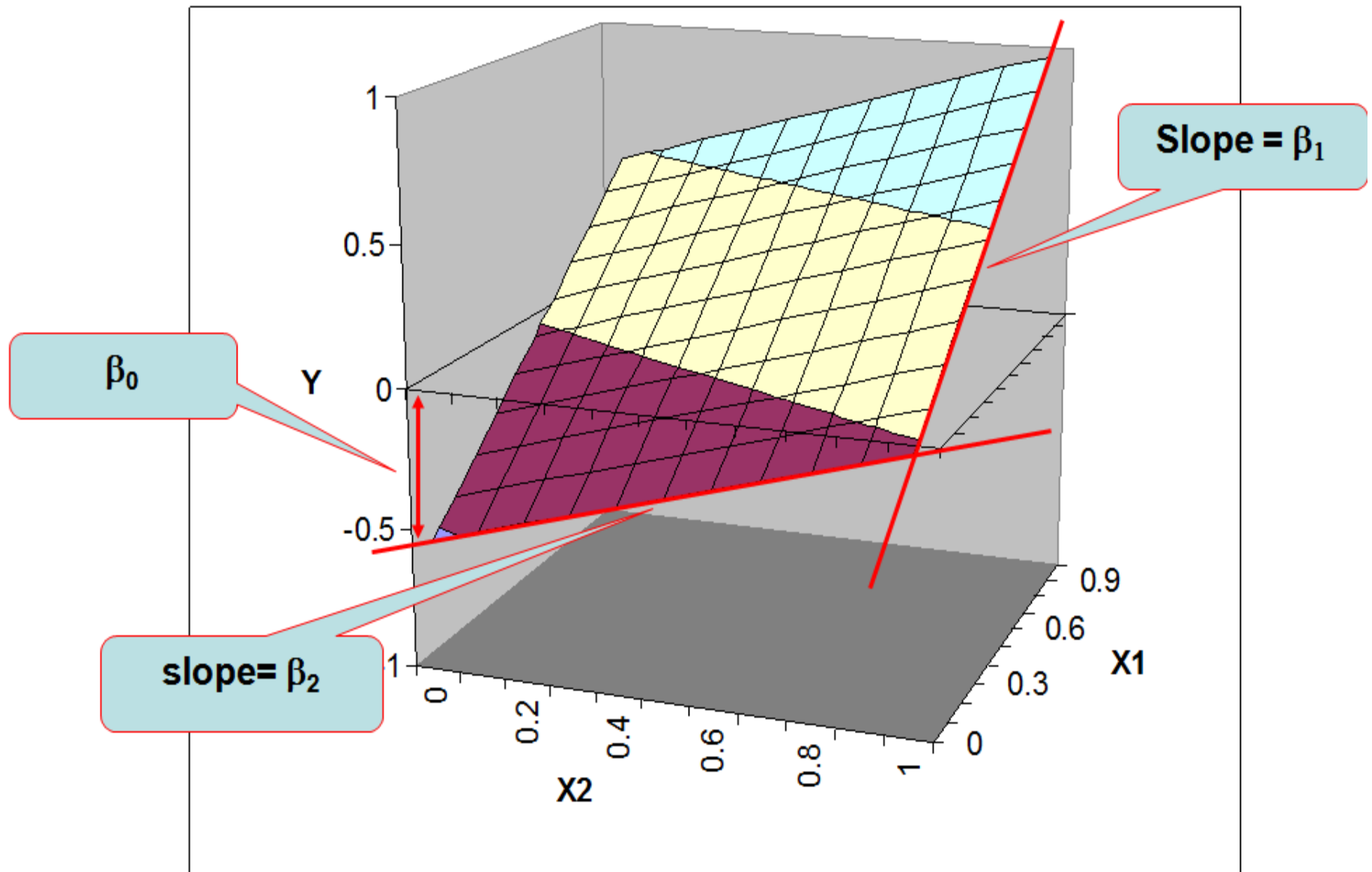


HỒI QUI TUYẾN TÍNH ĐA BIẾN

$$Y_i = \beta_0 + \beta_1 X + \beta_2 X + \beta_3 X + \dots + \varepsilon$$

$$\text{Cholesterol} = \beta_0 + \beta_1(\text{tuoi}) + \beta_2(\text{theduc}) \\ + \beta_3(\text{chedoan}) + \dots + \varepsilon$$

HỒI QUI TUYẾN TÍNH ĐA BIẾN



HỒI QUI TUYẾN TÍNH ĐA BIẾN

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .959 ^a | .920 | .903 | .2612 |

a. Predictors: (Constant), chedoan, theduc, tuoi

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|--------|-------------------|
| 1 | Regression | 11.005 | 3 | 3.668 | 53.757 | .000 ^a |
| | Residual | .955 | 14 | .068 | | |
| | Total | 11.960 | 17 | | | |

a. Predictors: (Constant), chedoan, theduc, tuoi

b. Dependent Variable: cholesterol

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 2.178 | .471 | | 4.624 | .000 |
| | tuoi | .036 | .009 | .584 | 3.837 | .002 |
| | theduc | -.074 | .029 | -.358 | -2.557 | .023 |
| | chedoan | .027 | .037 | .076 | .728 | .479 |

a. Dependent Variable: cholesterol

HỒI QUI TUYẾN TÍNH ĐA BIẾN

Model Summary

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|-------|-------------------|----------|-------------------|----------------------------|
| 1 | .958 ^a | .917 | .906 | .2571 |

a. Predictors: (Constant), theduc, tuoi

ANOVA^b

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|-------|------------|----------------|----|-------------|--------|-------------------|
| 1 | Regression | 10.969 | 2 | 5.484 | 82.971 | .000 ^a |
| | Residual | .991 | 15 | .066 | | |
| | Total | 11.960 | 17 | | | |

a. Predictors: (Constant), theduc, tuoi

b. Dependent Variable: cholesterol

Coefficients^a

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|-------|------------|-----------------------------|------------|---------------------------|--------|------|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 2.216 | .461 | | 4.809 | .000 |
| | tuoi | .039 | .008 | .628 | 4.586 | .000 |
| | theduc | -.076 | .028 | -.367 | -2.678 | .017 |

a. Dependent Variable: cholesterol

HỒI QUI TUYẾN TÍNH ĐA BIẾN

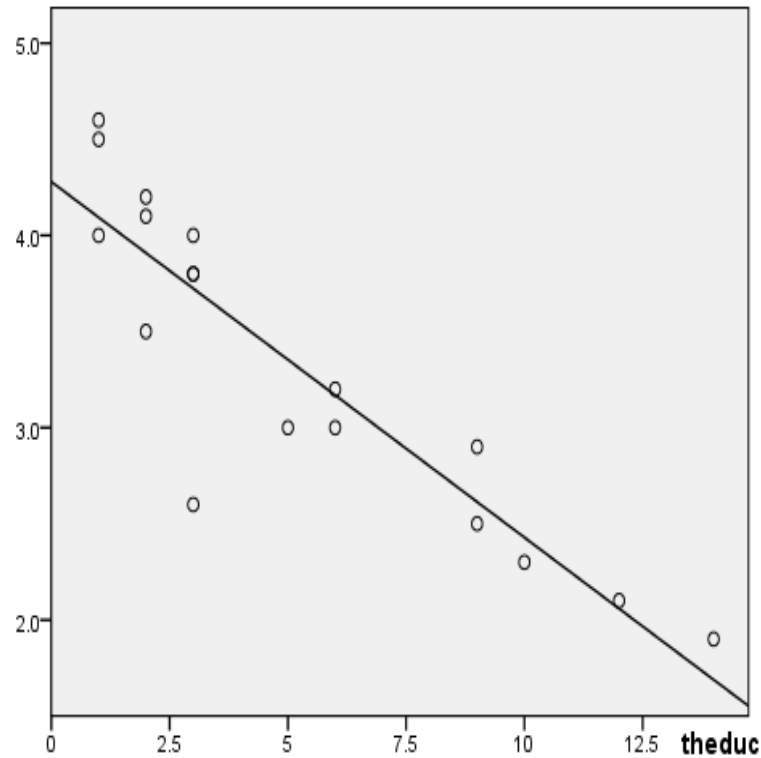
$$\text{Cholesterol} = \beta_0 + \beta_1(\text{tuoi}) + \beta_2(\text{theduc}) + \beta_3(\text{chedoan}) + \dots + \varepsilon$$

$$\text{Cholesterol} = 2,178 + 0,036(\text{tuoi}) - 0,074(\text{theduc}) + 0,027(\text{chedoan})$$

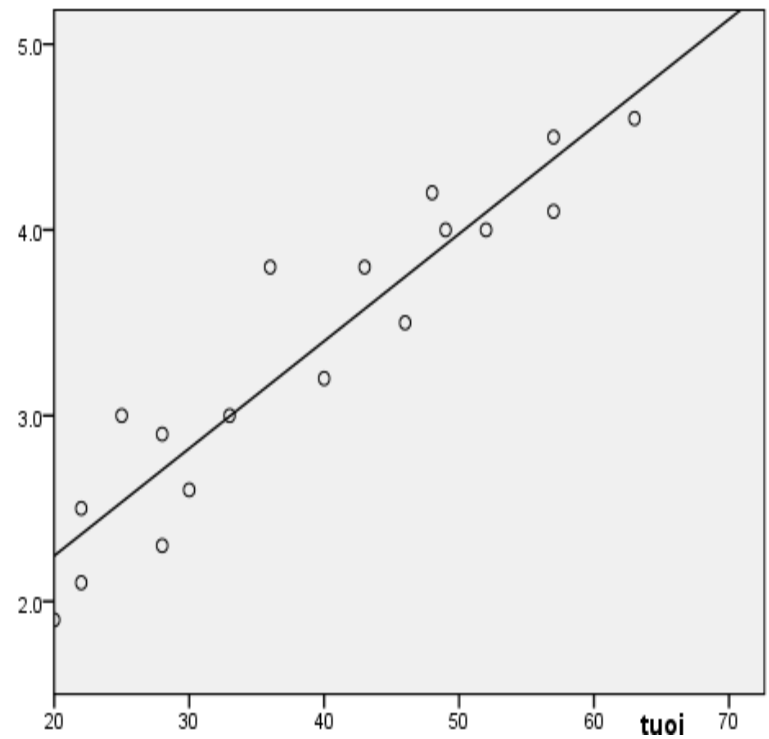
$$\text{Cholesterol} = 2,216 + 0,039(\text{tuoi}) - 0,076(\text{theduc})$$

HỒI QUI TUYẾN TÍNH ĐA BIẾN

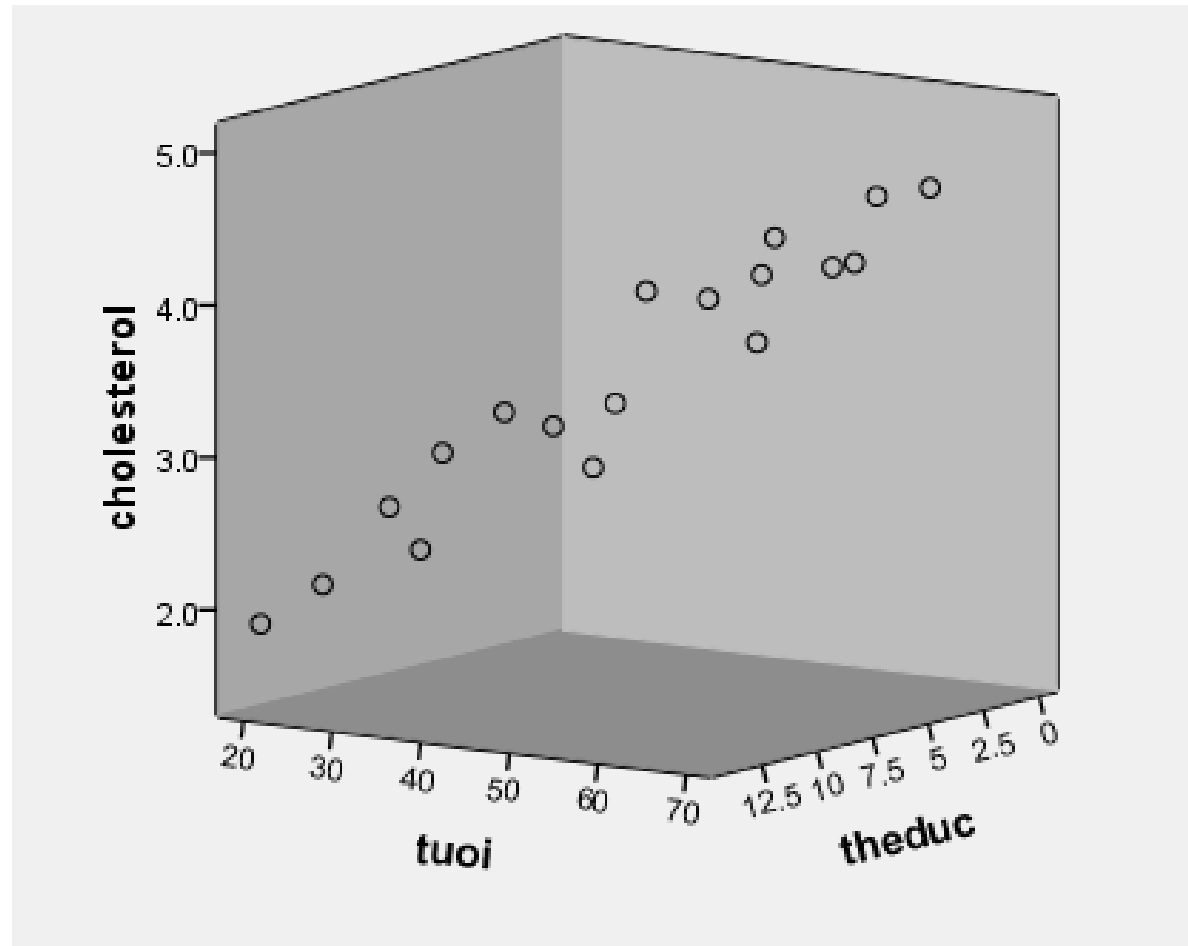
cholesterol



cholesterol



HỒI QUI TUYẾN TÍNH ĐA BIẾN



HỒI QUI TUYẾN TÍNH ĐA BIẾN

