



## CHAPTER IV

### RESULTS

Thirty patients, 25 females and 5 males were studied. The mean age was 26.87 years, with a range of 16 to 35 years. None of the patients had organic heart disease and none was taking or had taken any drug that might influence the left ventricular function. Good quality M-mode echocardiograms were obtained. The results are shown in tables I and II. The levels of FT3 and FT4I correlated with the cardiac indices are shown in table III and diagrams I to XX.

Highly significant correlations ( $p < .001$ ) were found between the levels of both FT3 and FT4I and QS2, LVETI and velocity of contraction.

Modest, though significant correlations were found between the levels of FT3 and FT4I with the ejection fraction (EF) and the PEPI.

TABLE I

| Case No | AGE in yr. | SEX | FT3  | FT4I  | QS2 | LVET | PEP | PEP/LVET | EF   |
|---------|------------|-----|------|-------|-----|------|-----|----------|------|
| 1       | 35         | M   | 5.6  | 1.34  | 360 | 300  | 60  | 0.2      | 0.72 |
| 2       | 31         | F   | 1.75 | 1.14  | 390 | 325  | 65  | 0.2      | 0.70 |
| 3       | 25         | F   | 9.0  | 7.08  | 350 | 290  | 60  | 0.21     | 0.82 |
| 4       | 32         | F   | 7.0  | 5.08  | 305 | 250  | 55  | 0.22     | 0.82 |
| 5       | 30         | F   | 15.5 | 5.93  | 255 | 220  | 35  | 0.16     | 0.74 |
| 6       | 23         | F   | 8.5  | 5.38  | 300 | 245  | 55  | 0.22     | 0.77 |
| 7       | 28         | F   | 16.0 | 9.11  | 255 | 205  | 50  | 0.24     | 0.80 |
| 8       | 16         | F   | 2.7  | 2.02  | 320 | 260  | 60  | 0.23     | 0.75 |
| 9       | 26         | F   | 24.0 | 11.03 | 240 | 190  | 50  | 0.26     | 0.78 |
| 10      | 34         | M   | 33.0 | 11.52 | 270 | 230  | 40  | 0.17     | 0.81 |
| 11      | 16         | F   | 17.0 | 14.12 | 260 | 220  | 40  | 0.18     | 0.84 |
| 12      | 25         | F   | 7.5  | 9.14  | 275 | 235  | 40  | 0.17     | 0.77 |
| 13      | 25         | M   | 8.5  | 6.33  | 300 | 250  | 50  | 0.2      | 0.71 |
| 14      | 32         | F   | 1.85 | 2.56  | 330 | 280  | 50  | 0.18     | 0.70 |
| 15      | 23         | M   | 3.1  | 1.76  | 370 | 305  | 65  | 0.21     | 0.70 |

TABLE I (contd.)

| Case No | AGE in yr. | SEX | FT3  | FT4I | QS2 | LVET | PEP | PEP/LVET | EF   |
|---------|------------|-----|------|------|-----|------|-----|----------|------|
| 16      | 25         | F   | 4.3  | 2.05 | 300 | 240  | 60  | 0.25     | 0.76 |
| 17      | 23         | F   | 14.5 | 4.75 | 255 | 205  | 50  | 0.24     | 0.75 |
| 18      | 18         | F   | 12.0 | 6.32 | 320 | 265  | 55  | 0.21     | 0.77 |
| 19      | 34         | F   | 15.3 | 9.38 | 295 | 250  | 45  | 0.18     | 0.76 |
| 20      | 22         | F   | 14.0 | 7.25 | 300 | 240  | 60  | 0.25     | 0.70 |
| 21      | 32         | F   | 8.7  | 6.67 | 340 | 290  | 50  | 0.17     | 0.79 |
| 22      | 21         | F   | 13.0 | 6.93 | 265 | 220  | 45  | 0.20     | 0.75 |
| 23      | 35         | M   | 14.5 | 4.41 | 310 | 265  | 45  | 0.17     | 0.80 |
| 24      | 31         | F   | 3.5  | 6.65 | 280 | 230  | 50  | 0.22     | 0.80 |
| 25      | 27         | F   | 8.5  | 6.6  | 305 | 260  | 45  | 0.17     | 0.79 |
| 26      | 26         | F   | 4.3  | 2.0  | 300 | 245  | 55  | 0.22     | 0.81 |
| 27      | 28         | F   | 2.0  | 2.31 | 340 | 285  | 55  | 0.19     | 0.78 |
| 28      | 25         | F   | 2.4  | 3.28 | 360 | 300  | 60  | 0.2      | 0.74 |
| 29      | 28         | F   | 2.05 | 1.46 | 365 | 305  | 60  | 0.2      | 0.76 |
| 30      | 29         | F   | 3.4  | 1.2  | 355 | 295  | 60  | 0.2      | 0.70 |

TABLE II

| Case No | HR  | QS2I  | LVETI | PEPI  | PEPI/LVETI | CONTR. VEL. |
|---------|-----|-------|-------|-------|------------|-------------|
| 1       | 72  | 511.2 | 422.4 | 88.8  | 0.21       | 40          |
| 2       | 110 | 610   | 510   | 109   | 0.22       | 41.64       |
| 3       | 84  | 518   | 424.4 | 93.6  | 0.22       | 41.38       |
| 4       | 89  | 483   | 392.4 | 90.6  | 0.23       | 42.86       |
| 5       | 129 | 513   | 426.4 | 86.6  | 0.20       | 53.64       |
| 6       | 120 | 540   | 437   | 103   | 0.24       | 48.98       |
| 7       | 146 | 547   | 438.6 | 108.4 | 0.25       | 58.05       |
| 8       | 104 | 528   | 426.4 | 101.6 | 0.24       | 40.38       |
| 9       | 136 | 512   | 407.6 | 104.4 | 0.27       | 51.05       |
| 10      | 109 | 498.9 | 415.3 | 83.6  | 0.20       | 47.82       |
| 11      | 111 | 482   | 497.6 | 84.4  | 0.21       | 59.09       |
| 12      | 119 | 513   | 425.4 | 87.6  | 0.21       | 51.06       |
| 13      | 81  | 470.1 | 438.7 | 82.4  | 0.21       | 50          |
| 14      | 89  | 508   | 422.4 | 85.6  | 0.20       | 41.93       |
| 15      | 60  | 496   | 407   | 89    | 0.22       | 40.20       |

TABLE II (contd.)

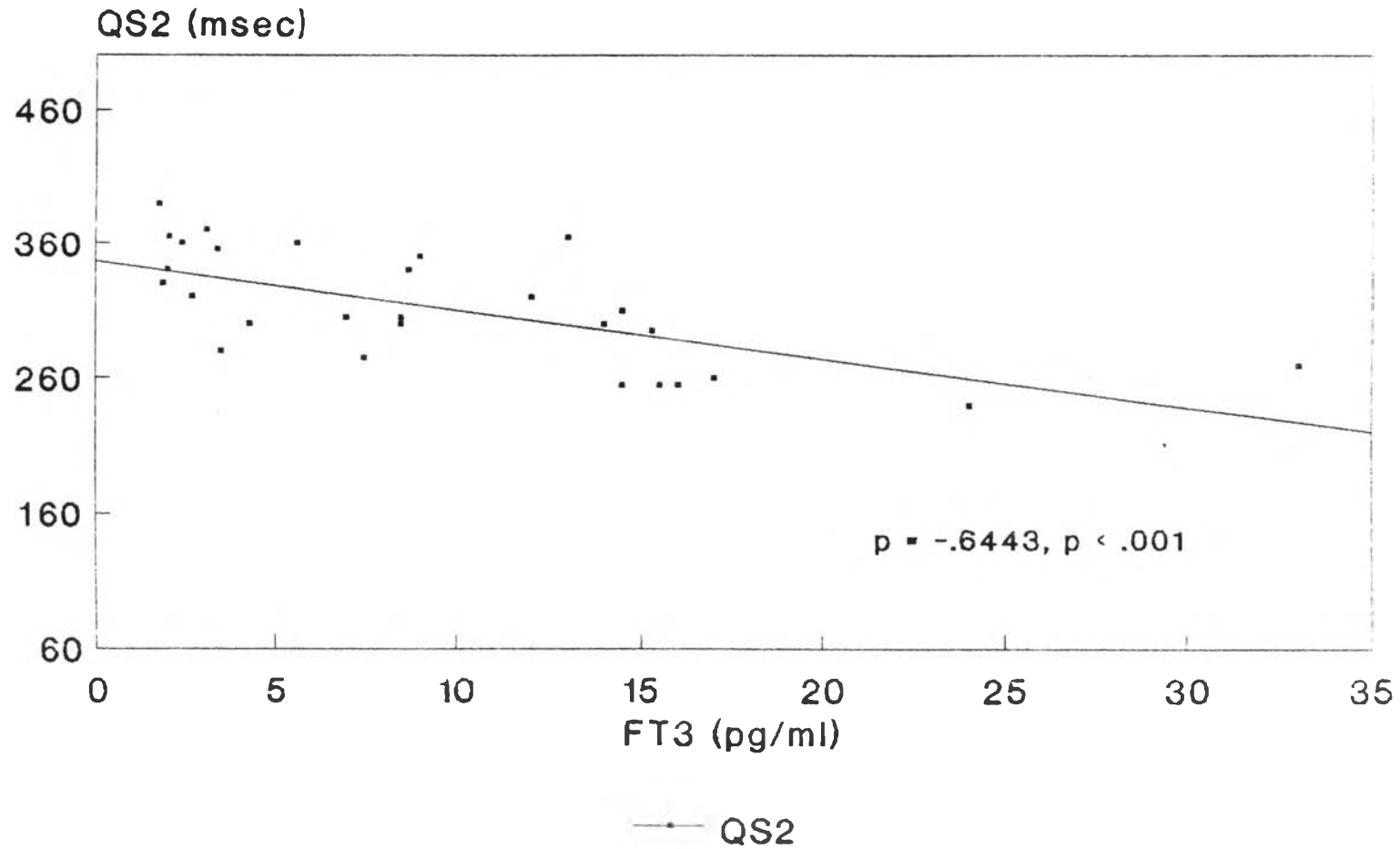
| Case No | HR  | QS2I  | LVETI | PEPI  | PEPI/LVETI | CONTR. VEL. |
|---------|-----|-------|-------|-------|------------|-------------|
| 16      | 109 | 518   | 414.4 | 103.6 | 0.25       | 41.67       |
| 17      | 120 | 490   | 397   | 98    | 0.25       | 51.22       |
| 18      | 100 | 520   | 425   | 95    | 0.22       | 45.28       |
| 19      | 125 | 454   | 450   | 95    | 0.21       | 50          |
| 20      | 108 | 516   | 412.8 | 103.2 | 0.25       | 50          |
| 21      | 90  | 520   | 434   | 86    | 0.20       | 44.82       |
| 22      | 103 | 471   | 384.8 | 86.2  | 0.22       | 56.82       |
| 23      | 89  | 496.9 | 416.3 | 80.6  | 0.19       | 47.17       |
| 24      | 115 | 510   | 414   | 96    | 0.23       | 43.48       |
| 25      | 104 | 513   | 426.4 | 86.6  | 0.20       | 46.15       |
| 26      | 107 | 514   | 416.2 | 97.8  | 0.23       | 44.90       |
| 27      | 94  | 528   | 435.4 | 92.6  | 0.21       | 43.86       |
| 28      | 78  | 516   | 424.8 | 91.2  | 0.21       | 44.50       |
| 29      | 72  | 509   | 420.2 | 88.8  | 0.21       | 41.27       |
| 30      | 70  | 495   | 407   | 38    | 0.22       | 35.94       |

TABLE III

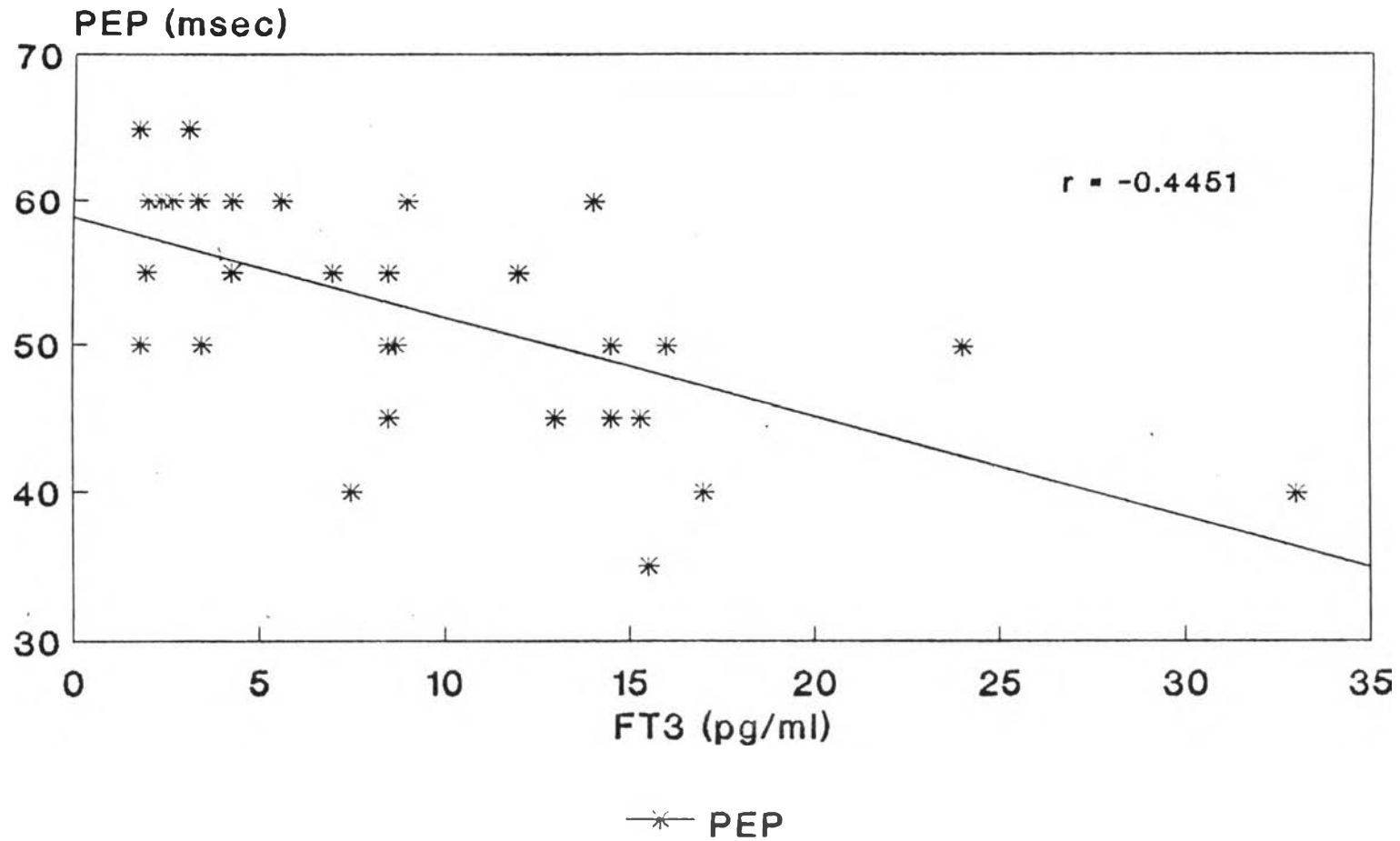
|               | FT3      | FT4I     |
|---------------|----------|----------|
| QS2           | -.6443** | -.6740** |
| LVET          | -.1793   | -.3280   |
| PEP           | -.4451   | -.3941   |
| PEP/LVET      | .2993    | .2741    |
| EF            | .5734**  | .5345**  |
| QS2I          | -.2513   | -.4094   |
| PEPI          | -.4091*  | -.4633*  |
| LVETI         | -.7616** | -.7447** |
| PEPI/LVETI    | .2013    | .1994    |
| CONTRACT.VEL. | .6495**  | .7778**  |

\*\*;  $p < 0.001$ , \* :  $p < 0.01$

# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE QS2.

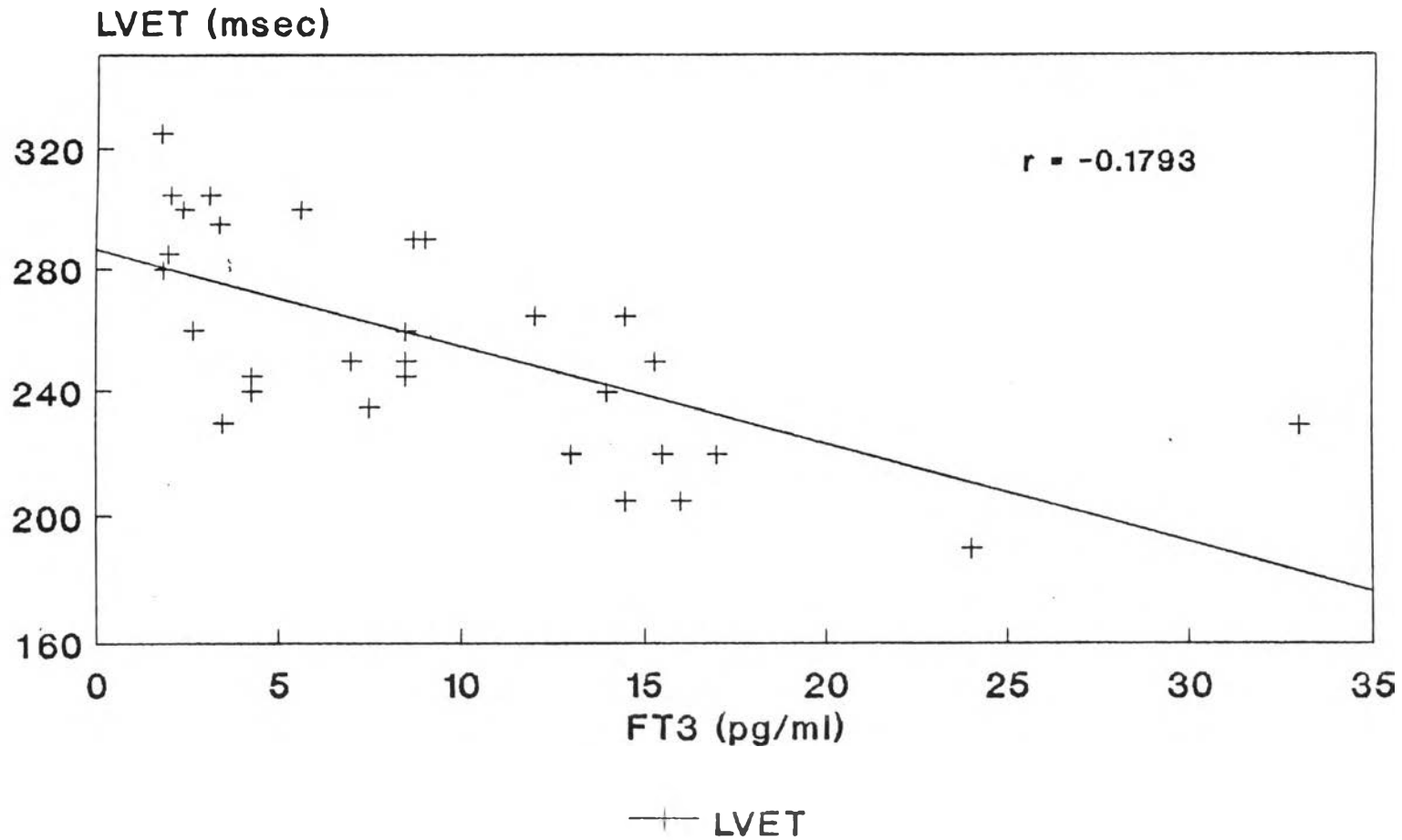


# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE PEP.

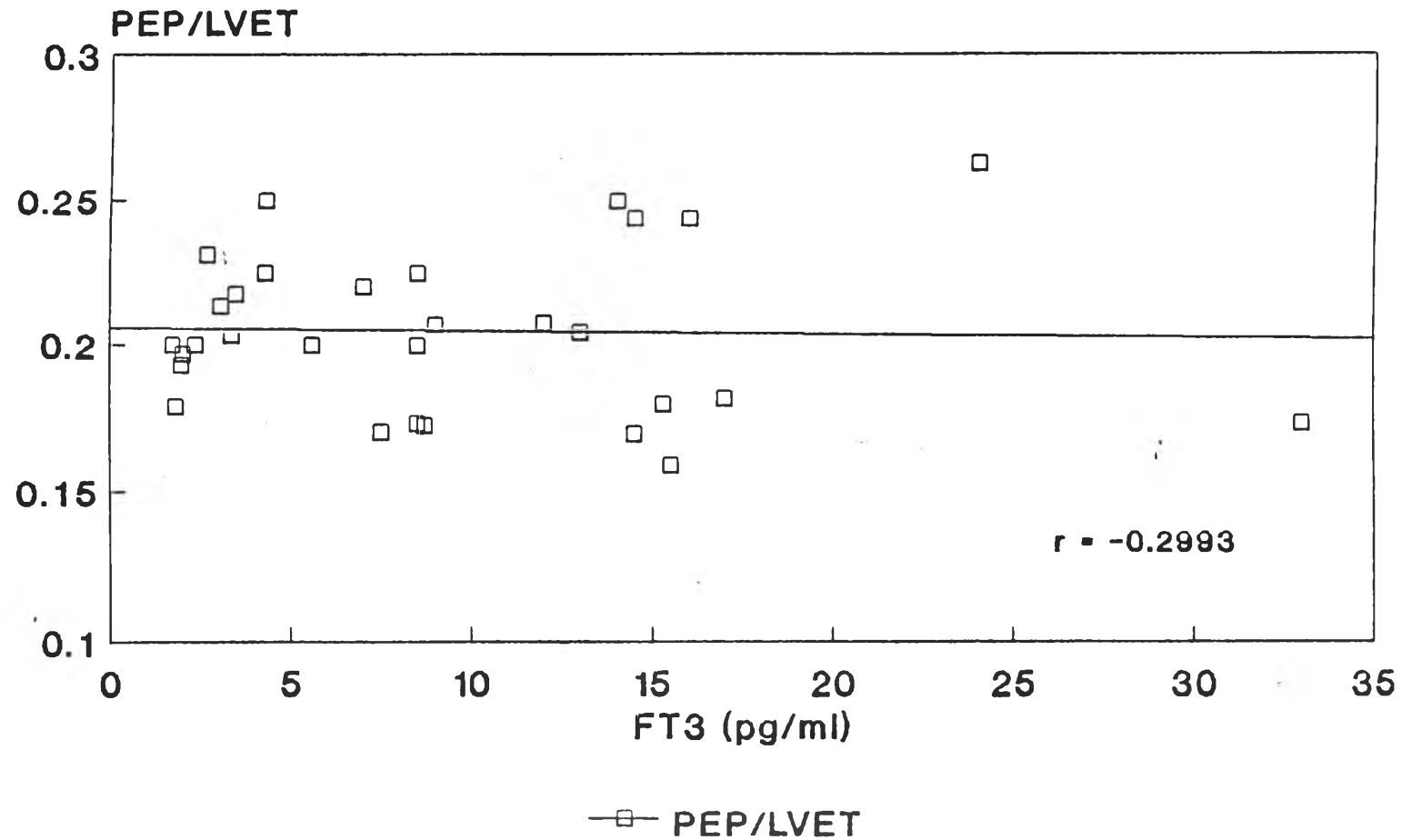




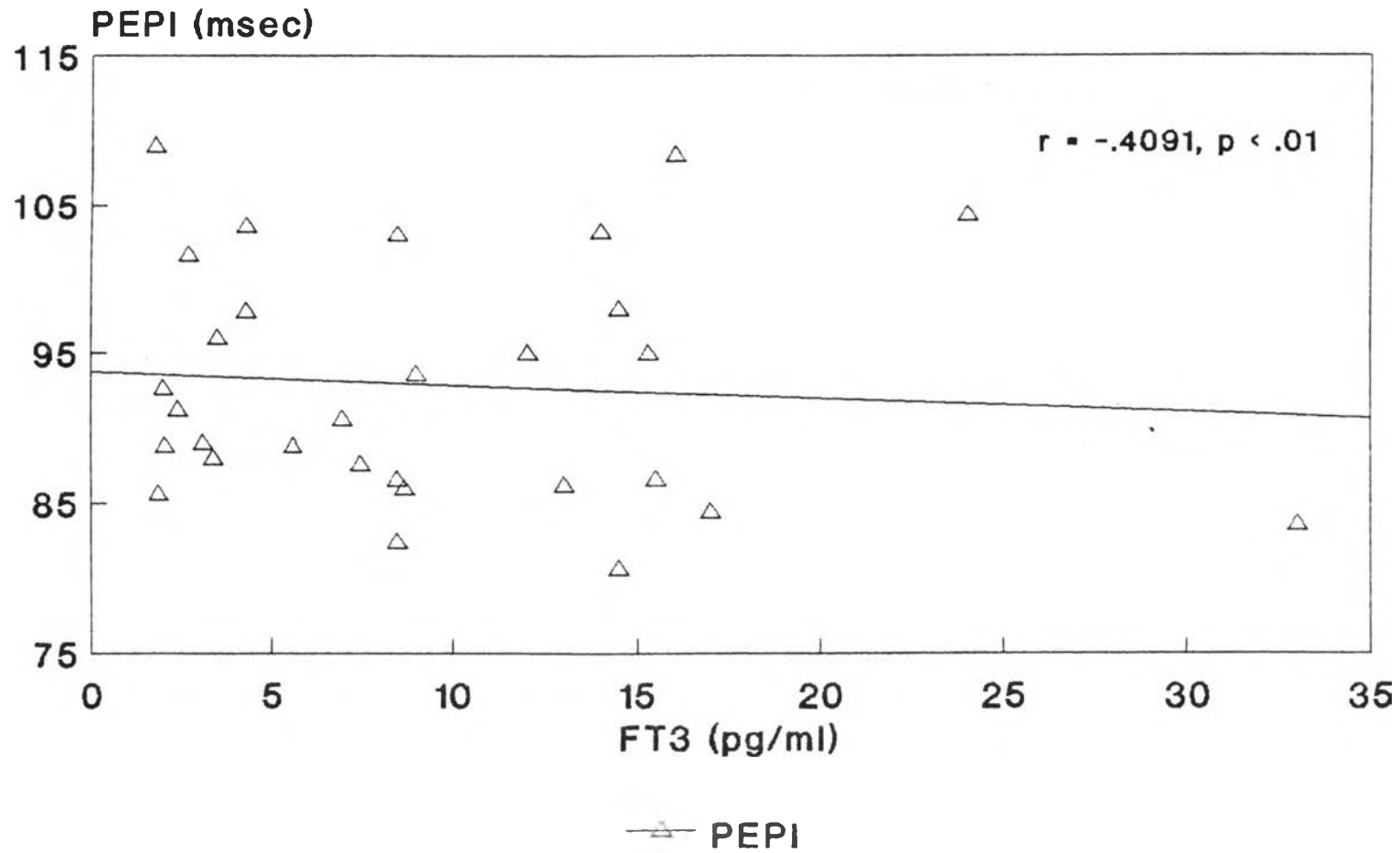
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE LVET.



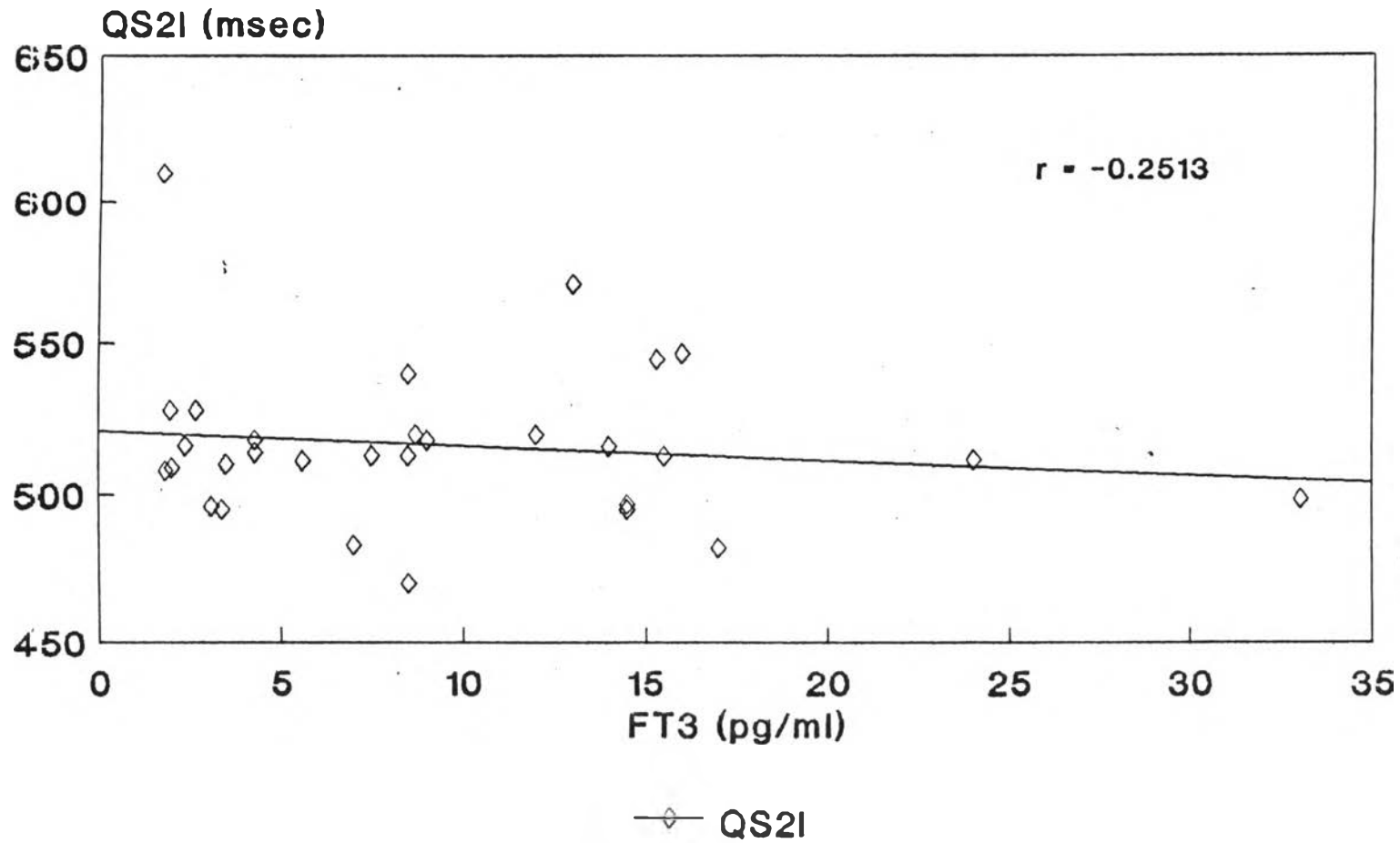
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE PEP/LVET.



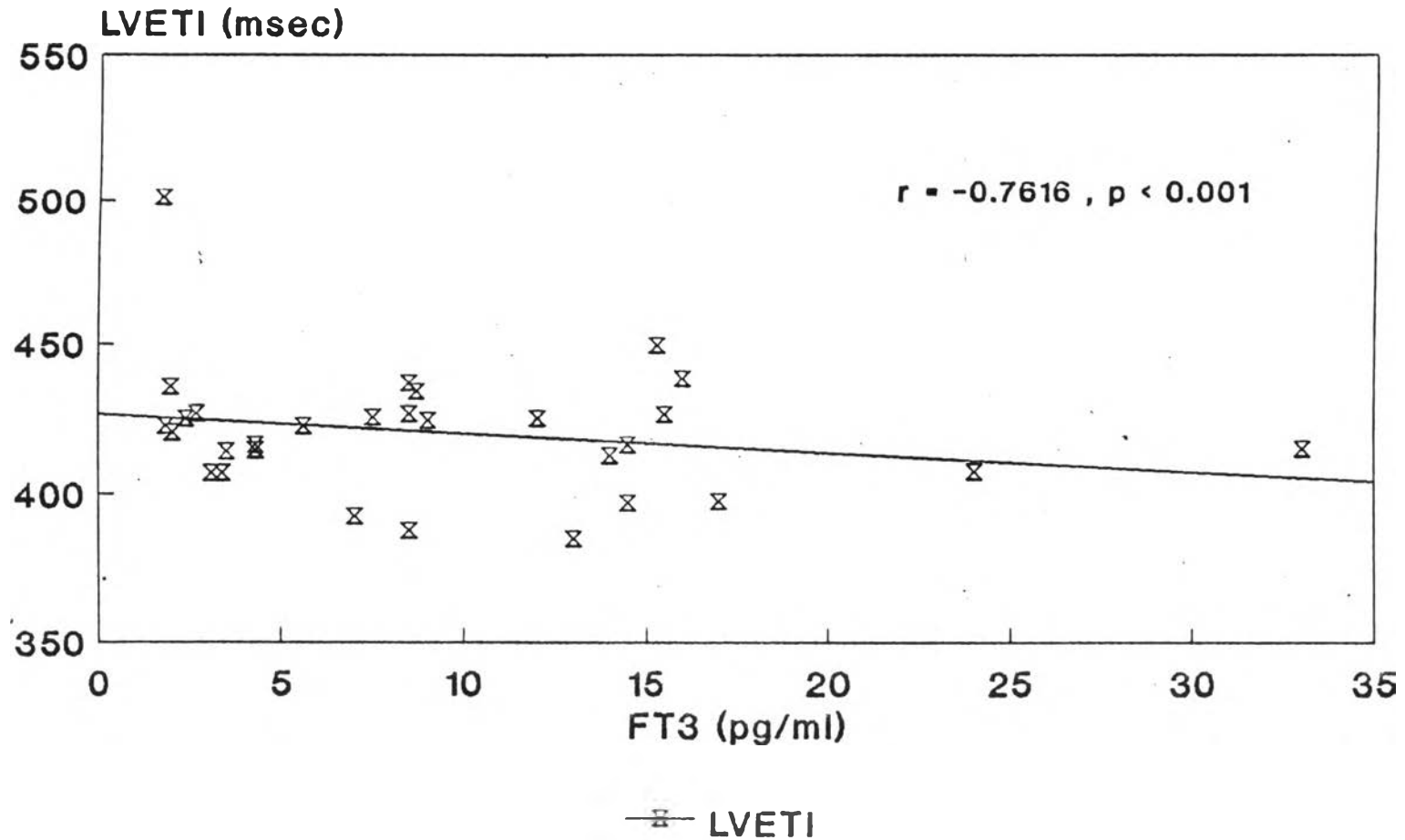
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE PEPI.



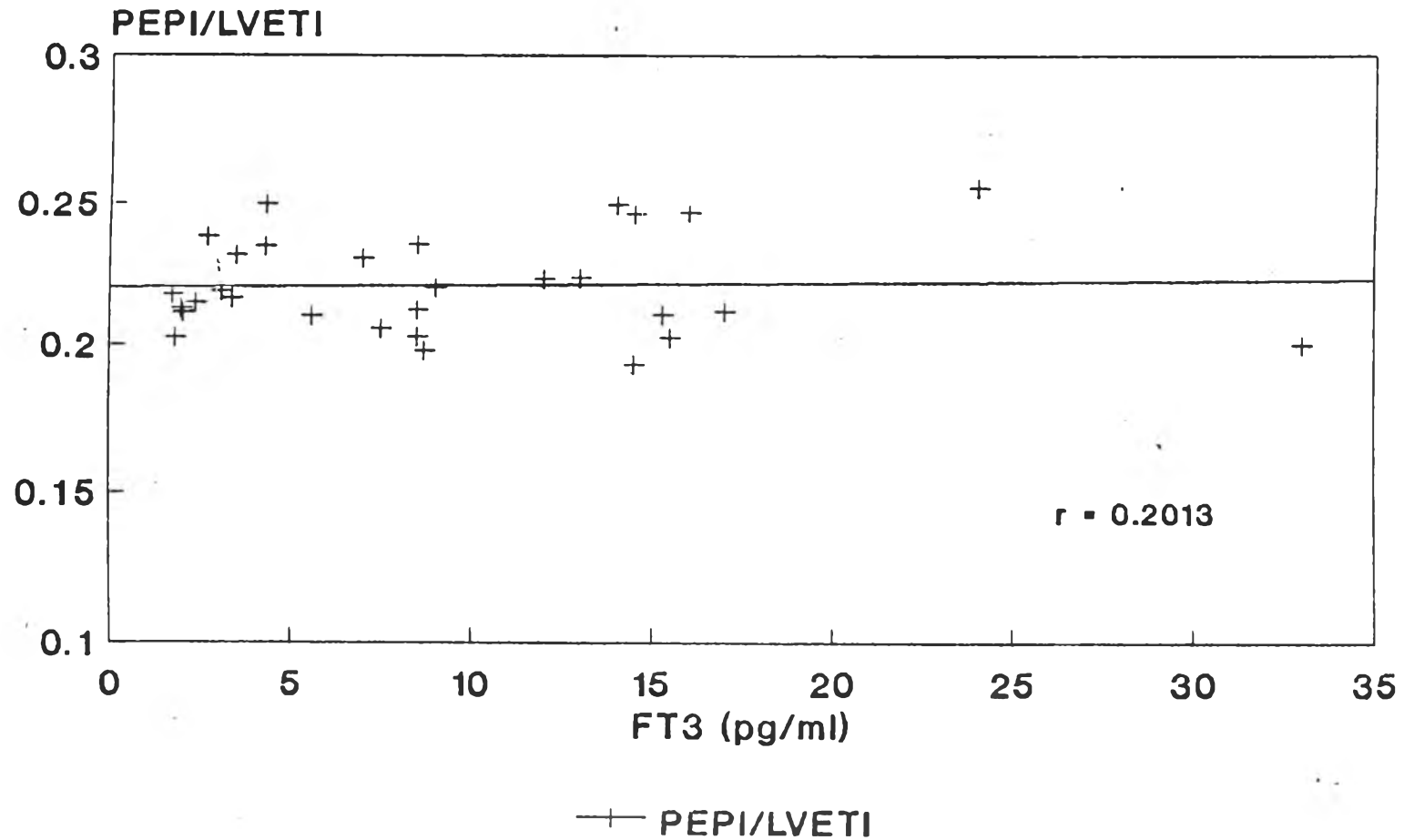
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE QS2I.



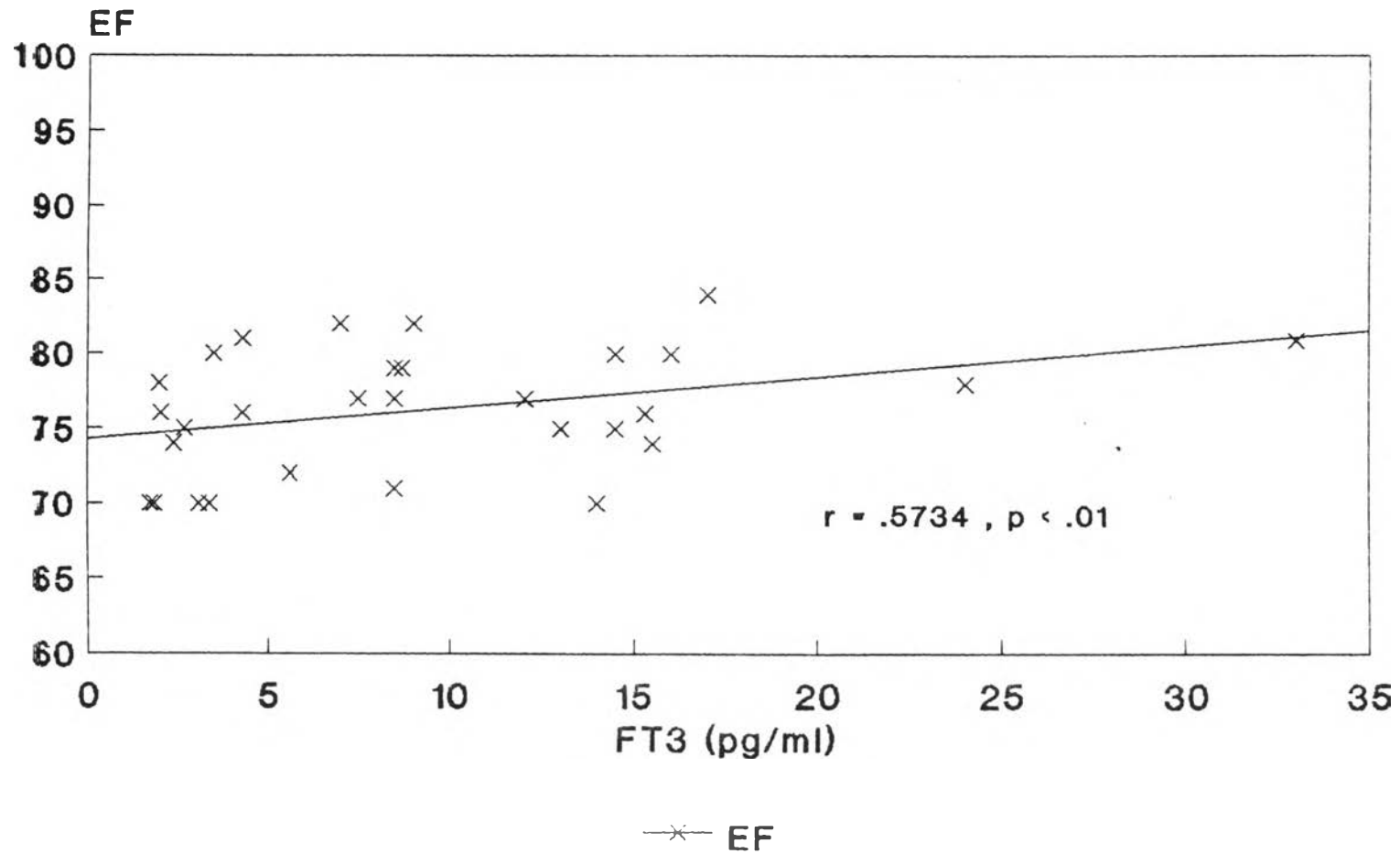
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE LVETI



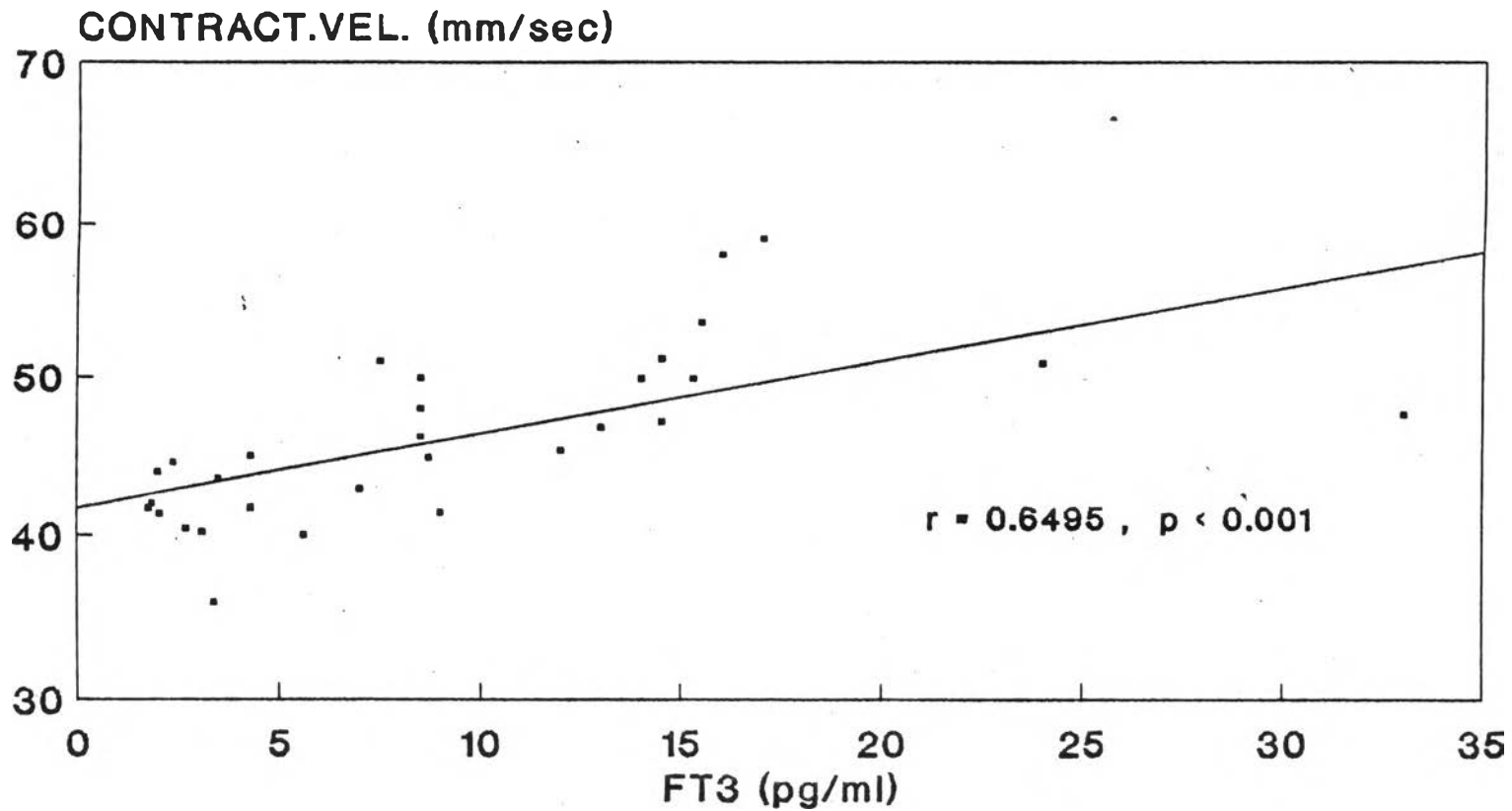
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND PEPI/LVETI.



# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND THE EF.



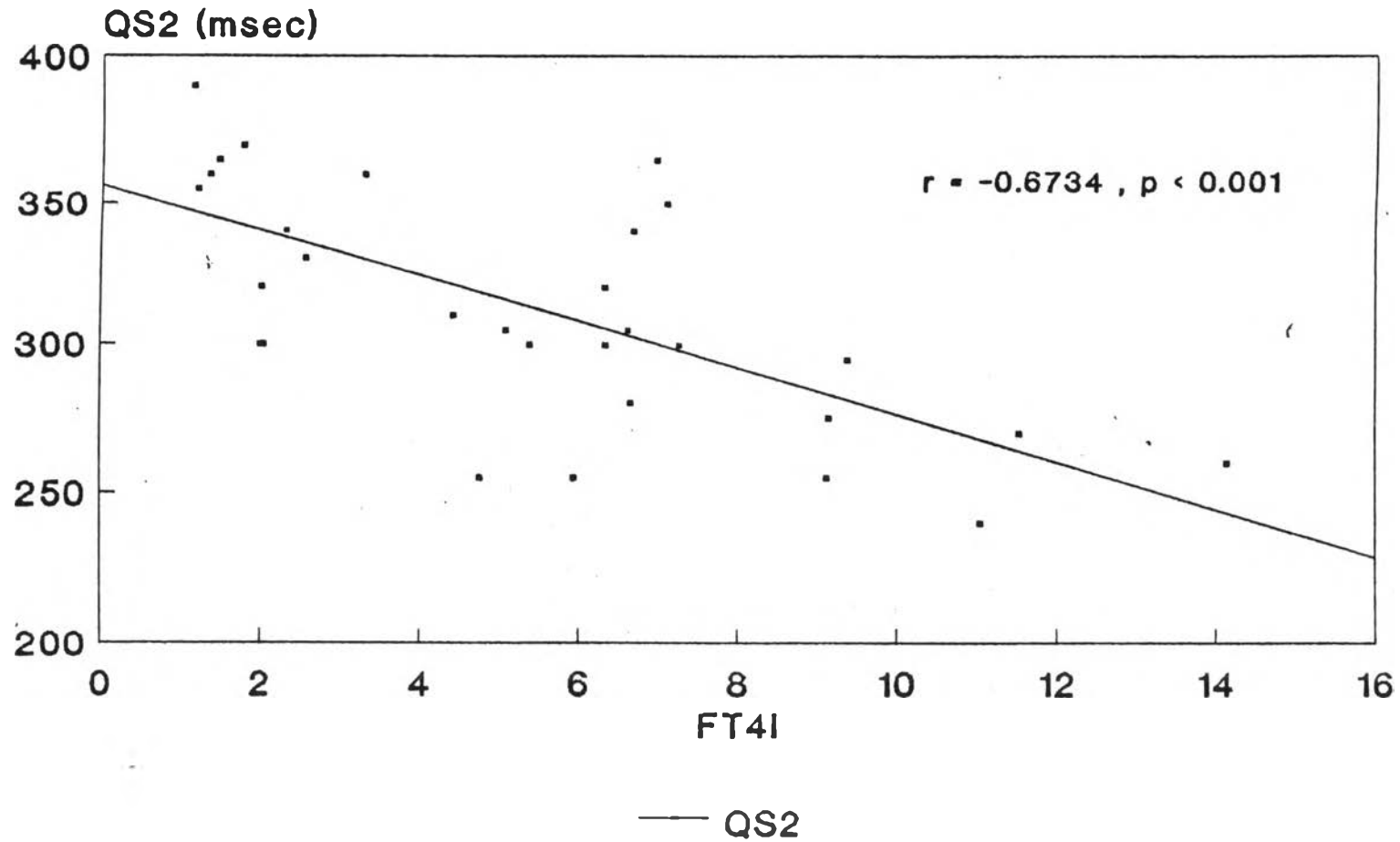
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT3 AND CONTRACTION VELOCITY.



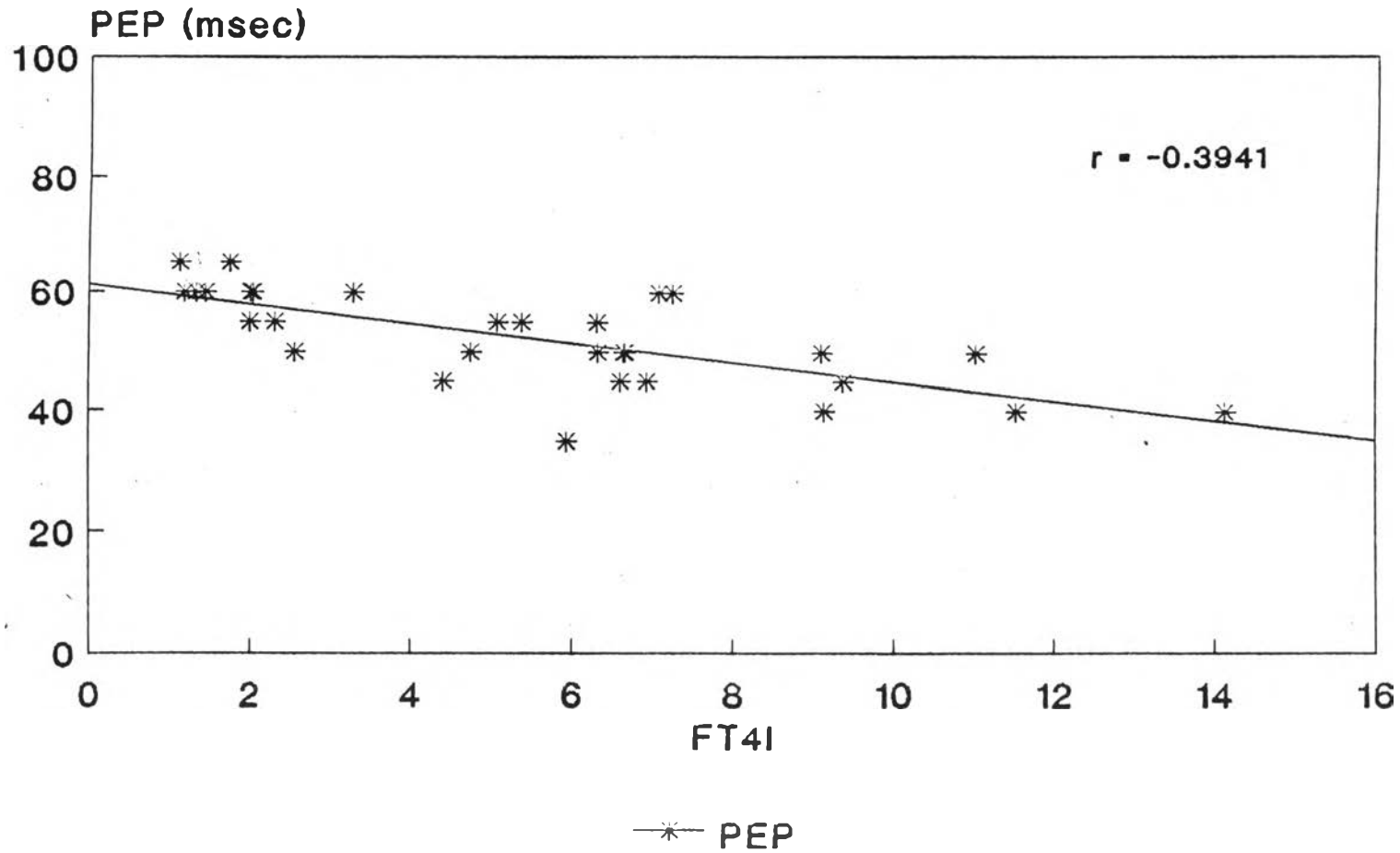
— CONTRACT.VEL



# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND QS2.

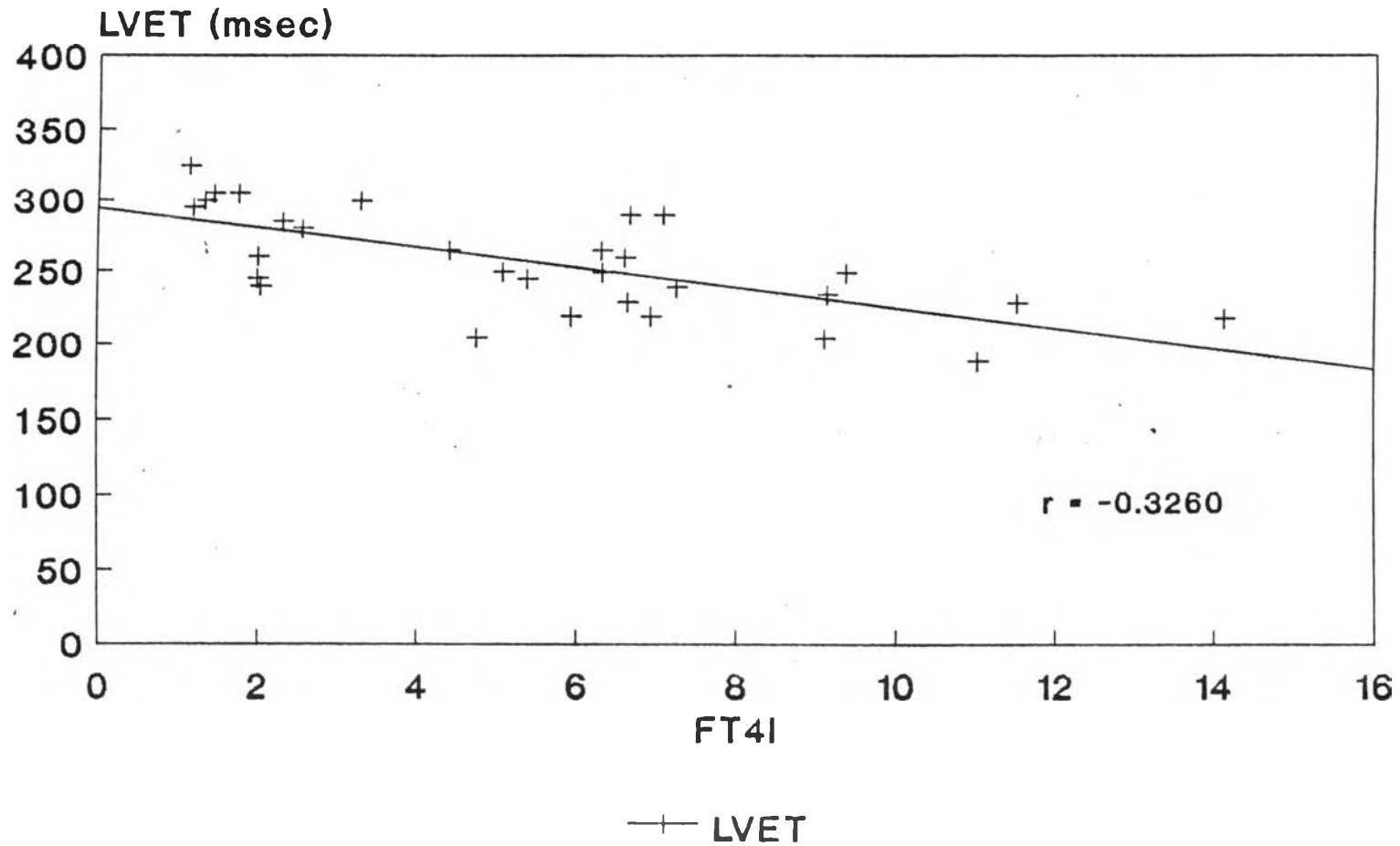


# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND PEP.

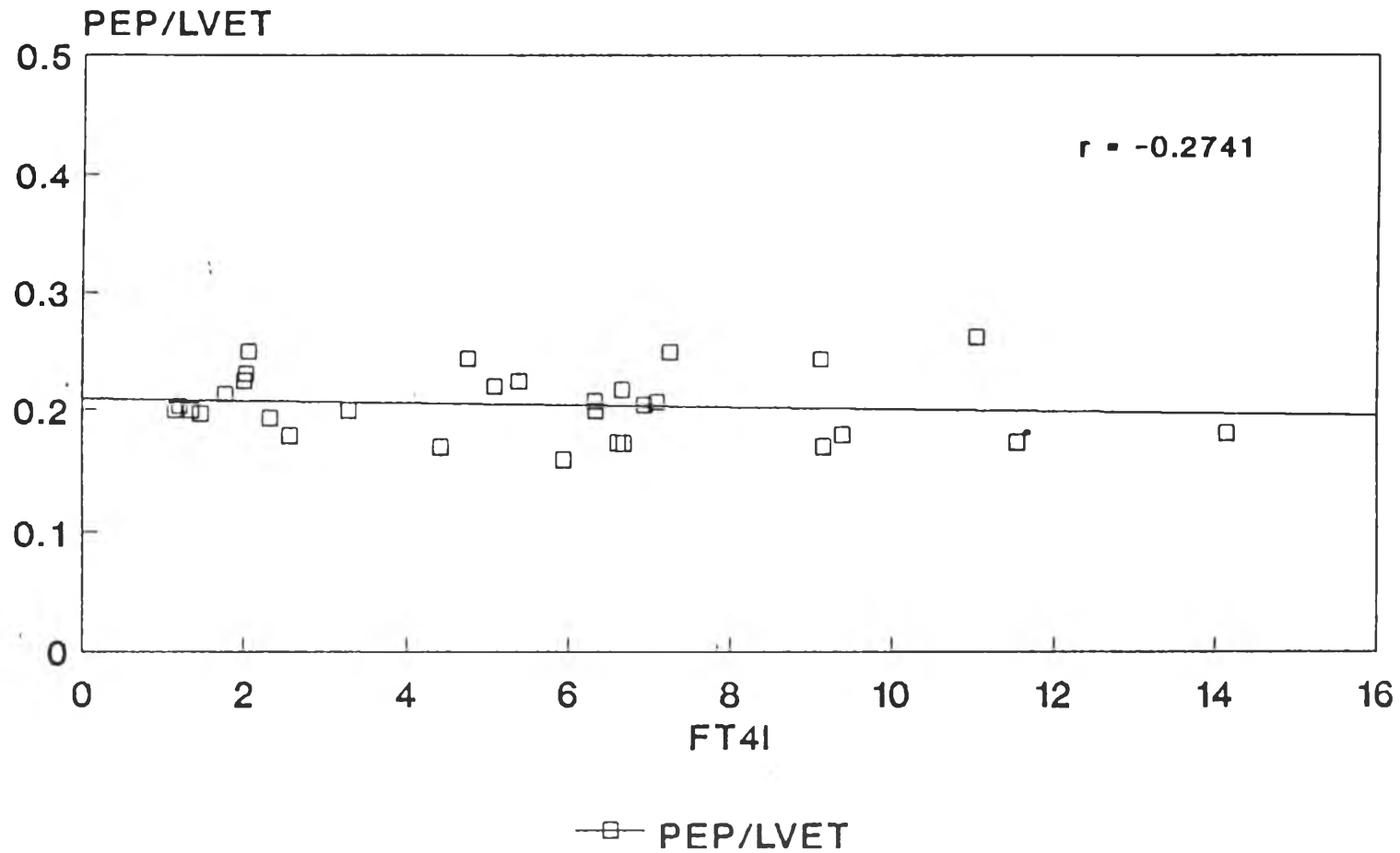


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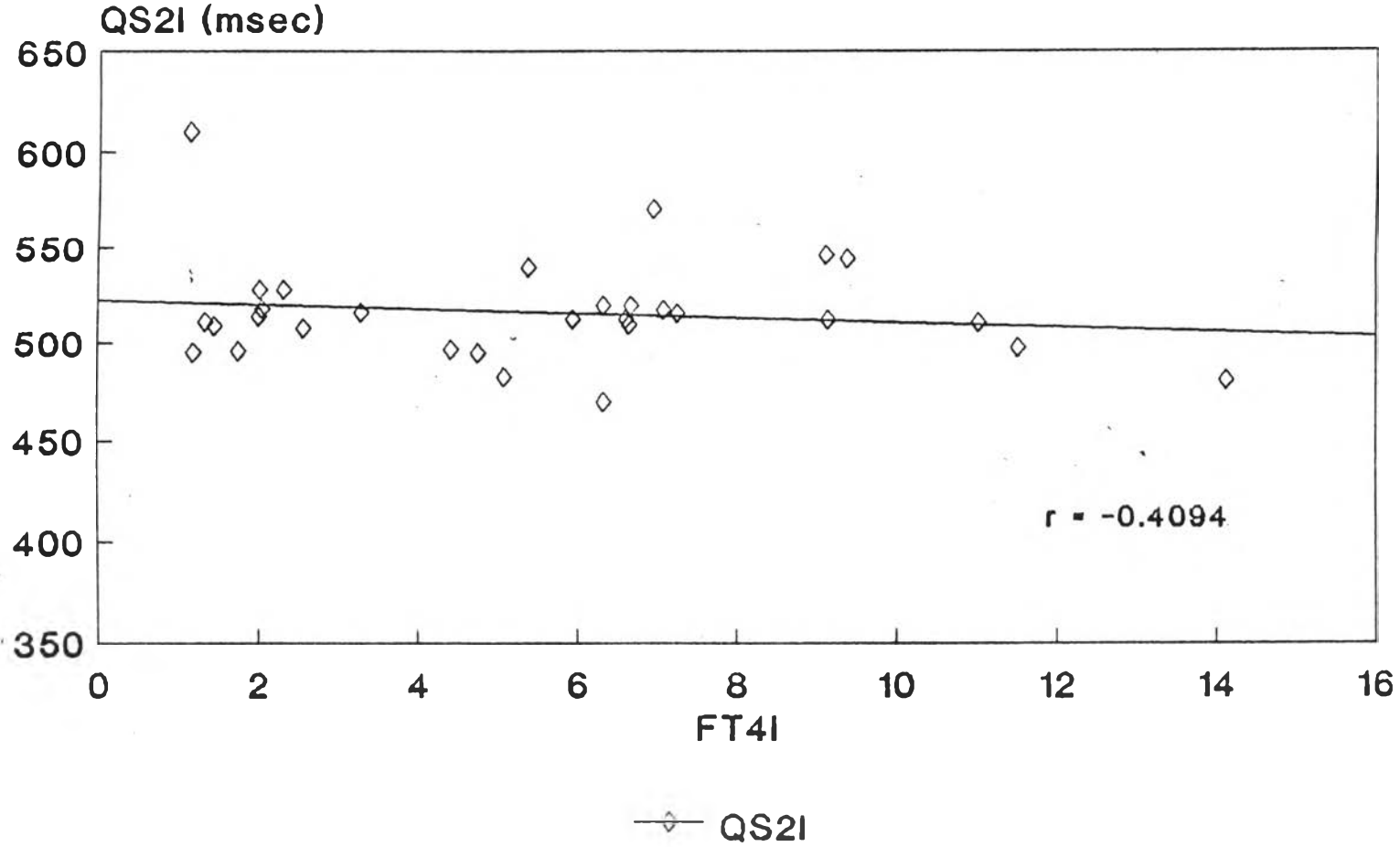
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND LVET.



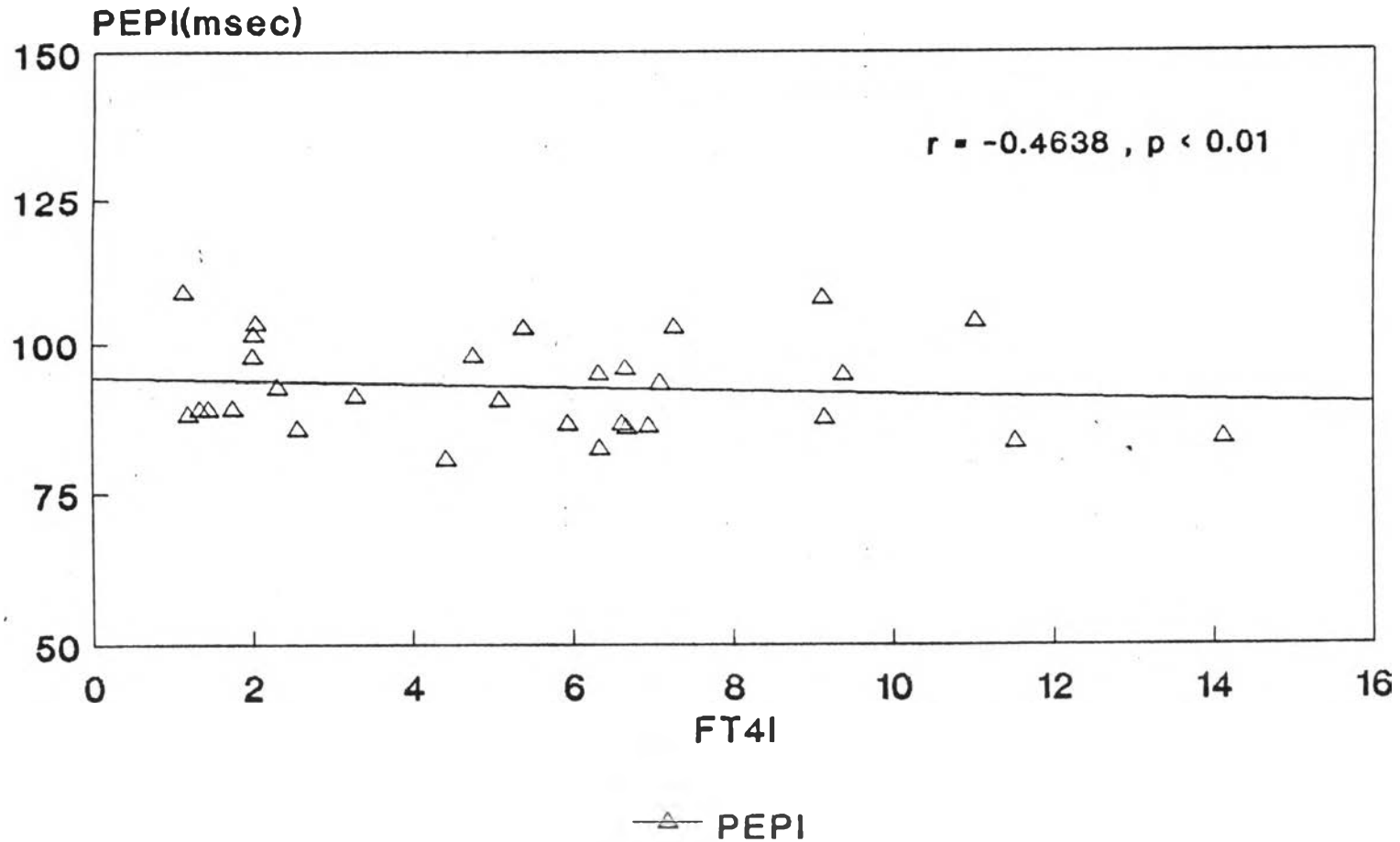
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND PEP/LVET.



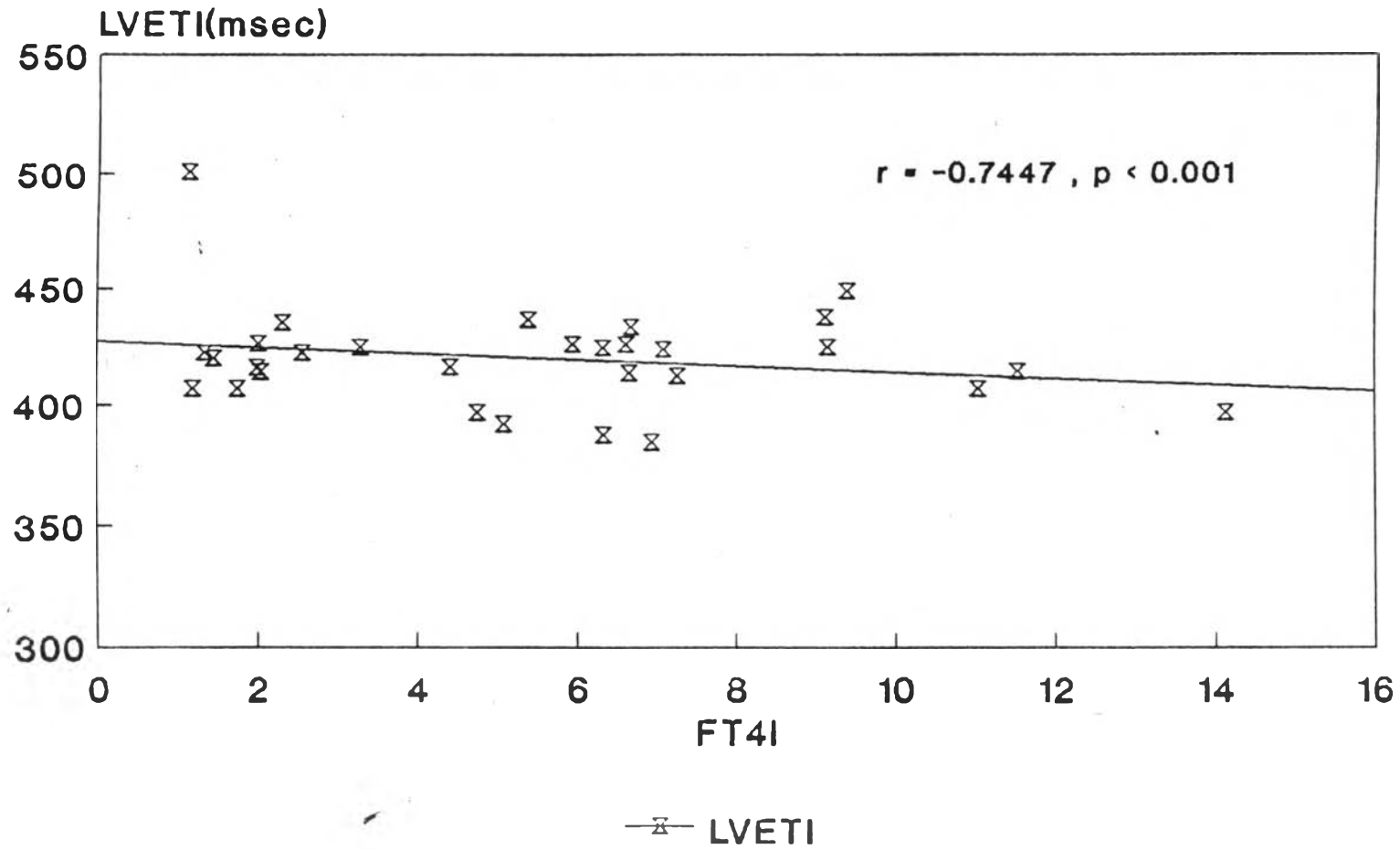
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND QS2I.



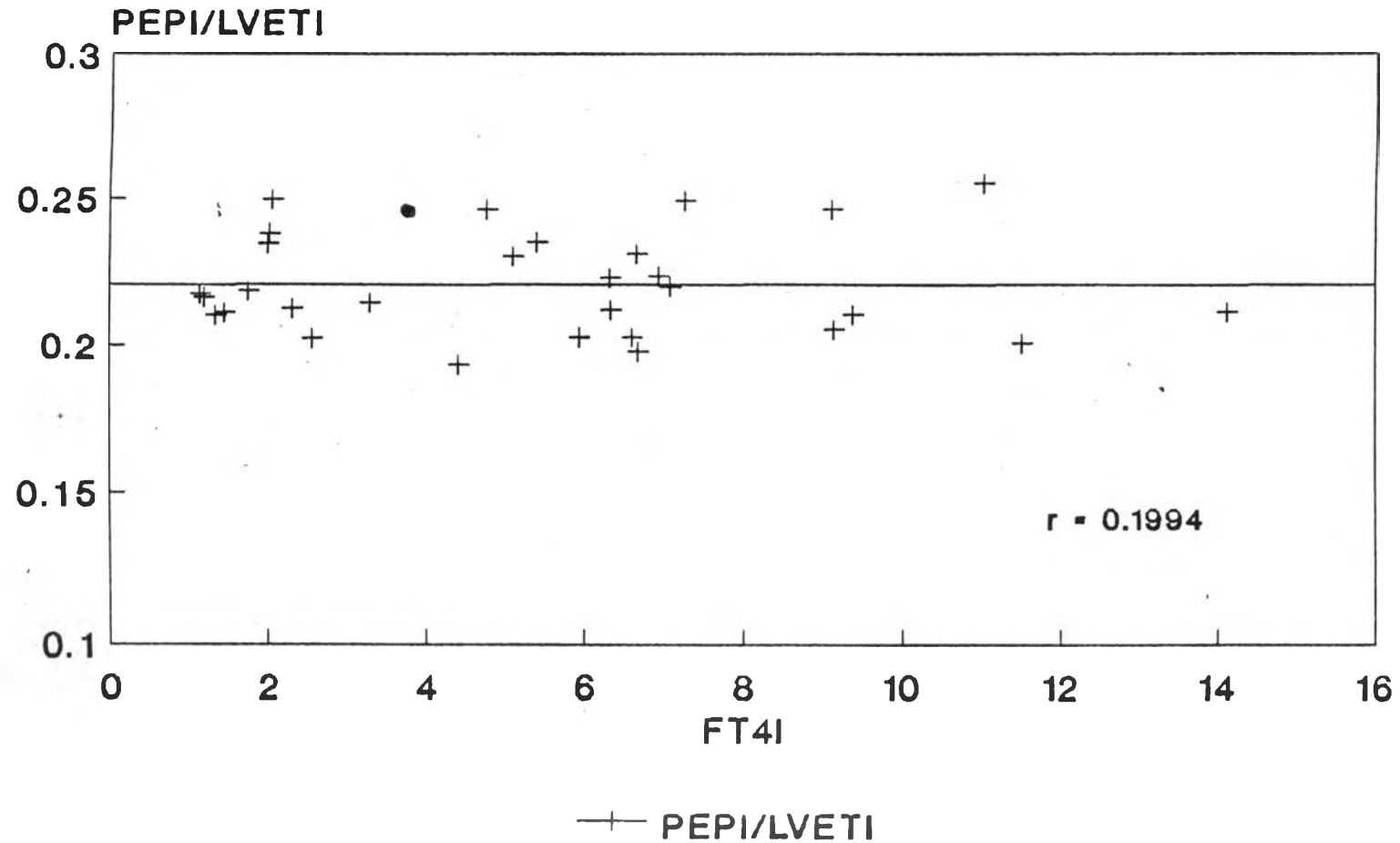
# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND PEPI.



# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND LVETI.

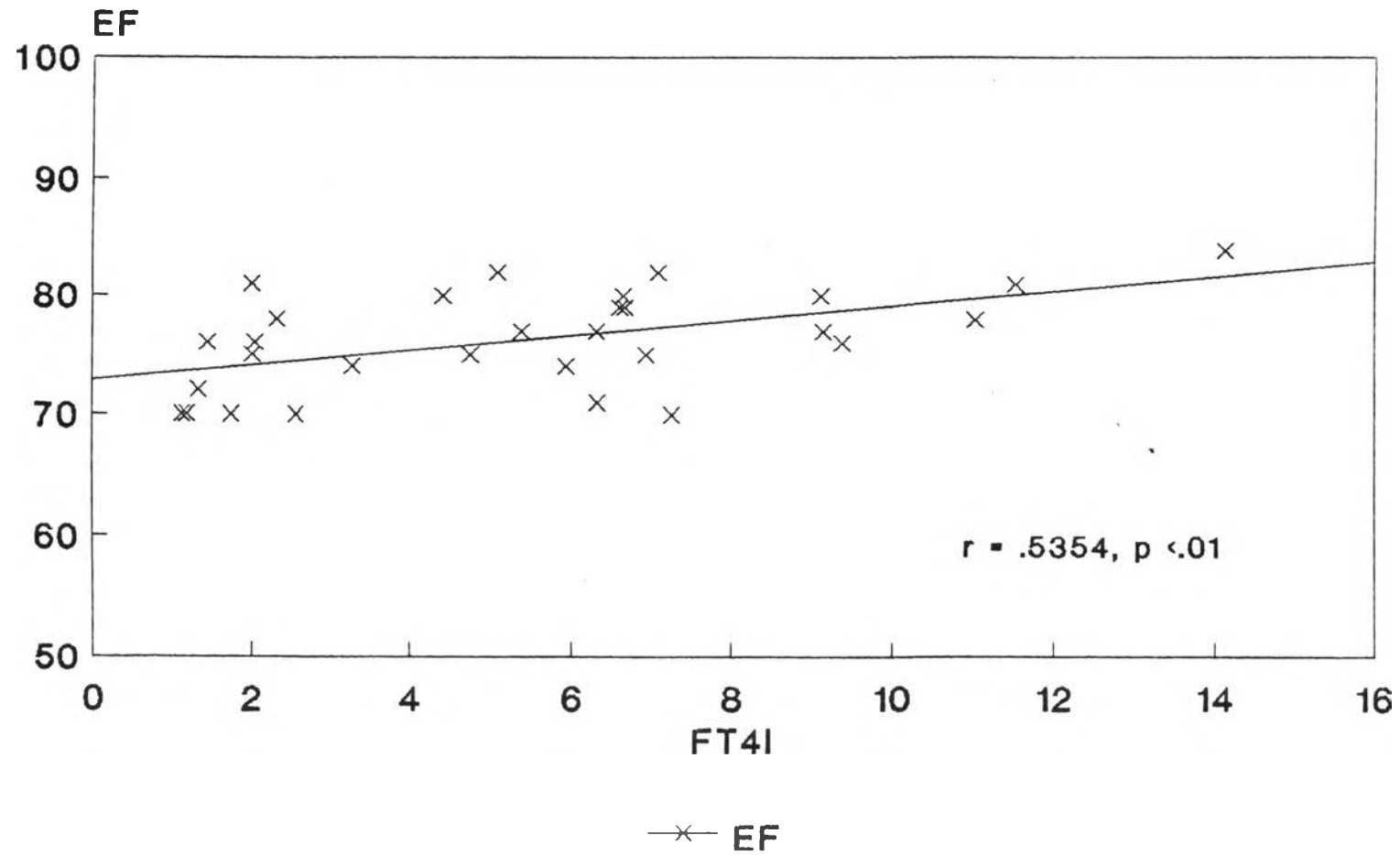


# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND PEPI/LVETI.





# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND EF.



# DIAGRAM SHOWING THE CORRELATION BETWEEN SERUM FT4I AND CONTRACTION VELOCITY.

