l. normal & variances are equal weights CBF (a) Independent 91.53 (16.86) 59.97 (20.02) (b) Ho: CBF rate and weights are unrelated to smoking G) H1: CBF rate or weights is related to smoking G2 94.24 (15.78) 18.64(29.59) (c) either $\overline{X}_{G1} = \frac{23 \times 91.53 + 23 \times 59.99}{46} = 15.75$ SS group = 46 $(15.15 - 81.72)^2 + 14 (86.44 - 81.72)^2$ XG2 = 37 × 94, 24 + 37 × 78.64 55,00 = 60 (93,2-81.72)260(71.48-81.72)2 $\overline{\chi}_{10} = \frac{23 \times 91.53 + 31 \times 94.74}{6.0} = 93.2$ Sympton = 23 (91.53-81.72)2+23 (59.97-81.72)2 + 37 (94,24-81,72)2+37 (78.64-81.72)2 $\overline{X_0} = \frac{23 \times 59.91 + 31 \times 18.64}{60}$ = 1924.46 55 risidna = 16.82 x 22 + 20,02 x 22+ Xall = 75.75+86.44+93,2+71,48 = 81.72 15.78 2 36 + 29.59 2 36 = 55556 0 df=116 55 df /M5 F1.116 = 2.96 P70.05 1419.89 1419.89 $M \cdot C$ group | 3288.83 F1.116 = 6.87 P < 0.05 3288.83 W.C x group 1924.46 1924,46 P < 0.05 F1.116 = 4.02 residual 55556.67 116 478.93

Weights Group # 5+1 Mean 91.53 16.86 15.78 94.24 = 23×91.53+37×94.24 = 93,2 55g = 23 (91,53-93,2) + 37 (94,24-93,2) = 104,16 df=1 55m = 16.862x22+15.782x36 = 15218.01 df=58 Msg= (04,16 Msw=262,4 Fi.58 = 0.391 P>7 0.05 cunit rejul Weights is unrelated to smoking CBF / Group # m 5d

1 23 59.97 20.02

2 37 78.64 29.59 50 = 71.48 55b = 4943.87 55w = 40338.1 Msw = 695,48 F1.58 = 7.1 D % 0.0 reject Ho CBF is unrelated to smoking.

 $\overline{x} = (24.4 + 58.8 + 81.1) / 30 = 5.5$ 55B= 10(2,44-5,5)2+10(5,88-5,5)410(8,19-5,5)2=166,39 df = 2 MSB = 166.37/2 = 83.19 | F2.27 = 22.07 55w= 1×9+2,212×9+2,332×9=(01,82 df=27 Msw=(01,82/27=3,7) $t = \frac{25 - M}{2.7 / \sqrt{58}} = \frac{25 - M}{0.355} = 2 =) M = 24, 29$ (b) $t = \frac{25-24}{0.355} = 2.82$ 0.0005 < p < 0.05 (1) Yejeit Ho BMI和糖尿病有關 Ld) CI他小,應該要拒絕H。、兩者所有關耳殺.

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(1)

lo

mean 50

2,44

8.17

5.88 2,21

2.33

2,

group

Ho:和照什麼完無関 H:和照什麼完有関

7 ((0.0) reject Ho

(I= 25± 2 x 0.355 = (25.71, 24.29)

4, ⑤ ketchwp mustard Ho: They are similar.

male 10 20
female 5 15
$$V = \frac{(10-5-1)^2}{15} = \frac{1}{15} = 1.067$$
 P>> 0. |

can't reject Ho => Yes

5, Ho: 構取量和有沒有暴食症無關.