

IMPORTANT TACROLIMUS SAFETY INFORMATION

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Statistics at Square One

Answers to exercises

- 1.1 Median 0.71, range 0.10 to 1.24, first quartile 0.535, third quartile $0.84\mu\text{mol}/24\text{ hr}$
- 2.1 Mean = 2.41, SD = 1.27.
- 2.2 Mean = $0.697\mu\text{mol}/24\text{ hr}$, SD = $0.0214\mu\text{mol}/24\text{ hr}$, range .0.215 to $1.179\mu\text{mol}/24\text{ hr}$
- 2.3 Points 0.10 and 1.24. 2/40 or 5%.
- 3.1 SE(mean) = $0.074\mu\text{mol}/24\text{ hr}$
- 3.2 A uniform or flat distribution. Population mean 4.5, population SD 2.87.
- 3.3 The distribution will be approximately Normal, mean 4.5 and SD $287/\sqrt{5} = 1.28$.
- 4.1 The reference range is 12.26 - 57.74, and so the observed value of 52 is included in it.
- 4.2 95% CI 32.73 to 37.27.
- 5.1 0.42 g/dl, z = 3.08 $0.001 < P < 0.01$, difference = 1.3 g/dl, 95% CI 0.48 to 2.12 g/dl.
- 5.2 0.23 g/dl, $P < 0.001$.
- 6.1 SE (percentage) = 2.1%, SE (difference) = 3.7%, difference = 3.4%. 95% CI -3.9 to 10.7%, z = 0.94, P = 0.35.
- 6.2 Yes, the traditional remedy, z = 2.2, P = 0.028.
- 7.1 37.5 to 40.5 KA units.
- 7.2 t = 2.652, d.f. = 17, $0.01 < P < 0.02$.
- 7.3 0.56g/dl, t = 1.243, d.f.=20, $0.1 < P < 0.05$, 95% CI -0.38 to 1.50g/dl.
- 7.4 15 days, t = 1.758, d.f. = 9, $0.1 < P < 0.05$, 95% CI -4.30 to 34.30 days.
- 8.1 Standard $\chi^2 = 23.295$, d.f. = 4, $P > 0.5$. Trend $\chi^2 = 2.25$, d.f. = 1, P = 0.13.
- 8.2 $\chi^2 = 3.916$, d.f. = 1, $0.02 < P < 0.05$, difference in rates 9%, 95% CI 0.3 to 17.9%.
- 8.3 $\chi^2 = 0.931$, d.f. = 1, $0.1 < P < 0.5$, difference in rates 15%, 95% CI -7.7 to 38%.
- 8.4 $\chi^2 = 8.949$, d.f. = 3, $0.02 < P < 0.05$. Yes, practice C; if this is omitted the remaining practices give $\chi^2 = 0.241$, d.f. = 2, $P > 0.5$. (Both χ^2 tests by quick method.)
- 9.1 Sickness rate in first department 28%, in second department 8%, difference 20% (approximate 95% CI = -6 to 45%, P = 0.24 (Fisher's Exact test mid P)). P is calculated from $2 \times (0.5 \times 0.173 + 0.031)$.
- 10.1 Smaller total = -30. No.
- 10.2 Mann-Whitney statistic = 74. The group on the new remedy. No.
- 11.1 r = -0.848.
- 11.2 rs = -0.867.
- 11.3 y = 36.1 - 2.34x. This means that, on average, for every 1 mile increase in mean distance the attendance rate drops by 2.34%. This can be safely accepted only within the area measured here.
- 11.4 SE = 0.39, 95% CI = -2.34 - 2.145 x 0.39 to -2.34 + 2.145 x 0.39 = -3.1 to -1.5%.
- 12.1 $O_A = 6$, $t_A = 8.06$, $O_B = 8$, $E_B = 5.94$. Log rank $\chi^2 = 1.24$, d.f. = 1, $0.1 < P < 0.5$.
- 12.2 Risk = 0.55, 95% CI 0.19 to 1.60.
- 13.1 Matched case control study.
- 13.2 Cohort study.
- 13.3 Cross sectional study.
- 13.4 Randomised controlled trial.
- 13.5 Quasi experimental design.

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