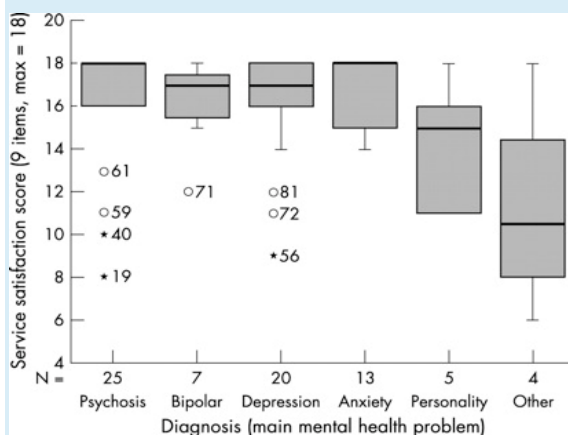


Appendix 3: MRCPsych Exam Paper B Critical Appraisal Questions (2022 SPMM)

Based on CUES Publication B (Blenkiron and Hammill 2003)

Question 2

120 adults of working age who were receiving input from a community mental health team in North Yorkshire were invited to complete the Carers' and User's Expectations of Services, User Version (CUES-U) questionnaire. This is a 16 item self-rated outcome measure that covers the issues that those using mental health services have identified as being their priorities. Total satisfaction scores for patients according to their psychiatric diagnosis are shown in the figure below. (From Blenkiron P and Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003;79:337-340.) What type of graph is shown?



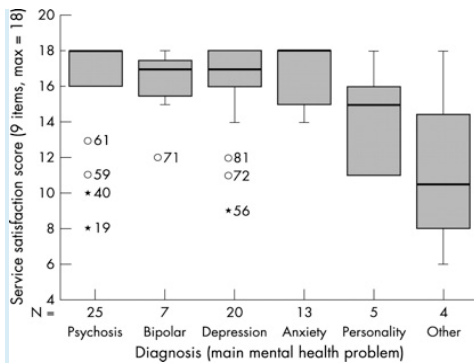
- ☐ Histogram
- ☐ Box whisker plot
- ☐ Funnel plot
- ☐ Bar chart
- ☐ Kaplan Meier graph

These are box and whisker plots. The displays indicate symmetry, spread and location of distributions, and the small dots indicate outliers while asterisks indicate extremes of individual variables.

The correct answer is: Box whisker plot

Question 3

120 adults of working age who were receiving input from a community mental health team in North Yorkshire were invited to complete the Carers' and User's Expectations of Services, User Version (CUES-U) questionnaire. This is a 16 item self-rated outcome measure that covers the issues that those using mental health services have identified as being their priorities. Total satisfaction scores for patients according to their psychiatric diagnosis are shown in the figure below. (From Blenkiron P and Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003;79:337-340.) The upper and lower horizontal edges of the shaded area refer to



- ☐ Outliers
- ☐ Inter quartile range
- ☐ 95% confidence limits
- ☐ Lowest and highest observed values
- ☐ Mean and median

The ends of the box are plotted at the upper and lower quartiles; the shaded box area gives the interquartile range containing 50% of the values.

The correct answer is: Inter quartile range

Question 4

Not answered

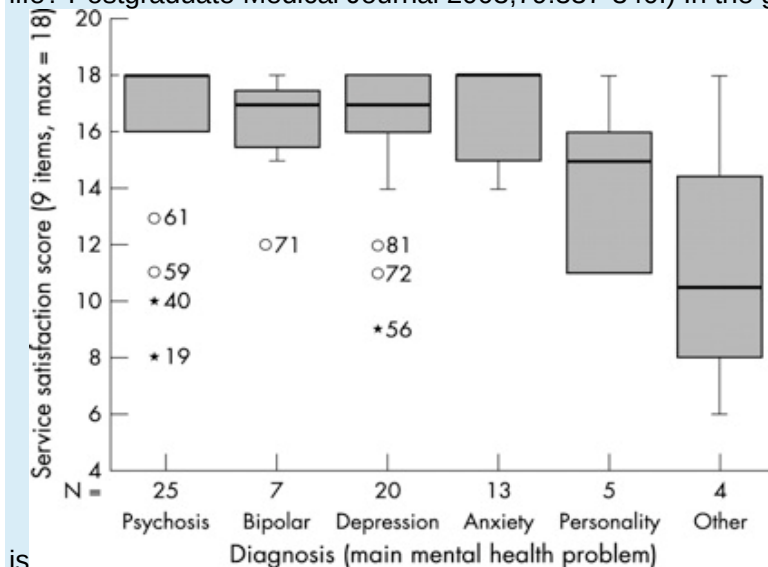
Marked out of 1.00

Flag question

Question text

Mok CritApp 004

120 adults of working age who were receiving input from a community mental health team in North Yorkshire were invited to complete the Carers' and User's Expectations of Services, User Version (CUES-U) questionnaire. This is a 16 item self-rated outcome measure that covers the issues that those using mental health services have identified as being their priorities. Total satisfaction scores for patients according to their psychiatric diagnosis are shown in the figure below. (From Blenkiron P and Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003;79:337-340.) In the given graph, the dark line across the box



is

Select one:

- ☐ Median
- ☐ Mode
- ☐ Mean
- ☐ Standard deviation
- ☐ Variance

Feedback

Your answer is incorrect.

The horizontal line through the box is plotted at the median. The whiskers extend to the maximum and minimum values (generally, within 1.5 box lengths).

The correct answer is: Median

Question 5

Not answered

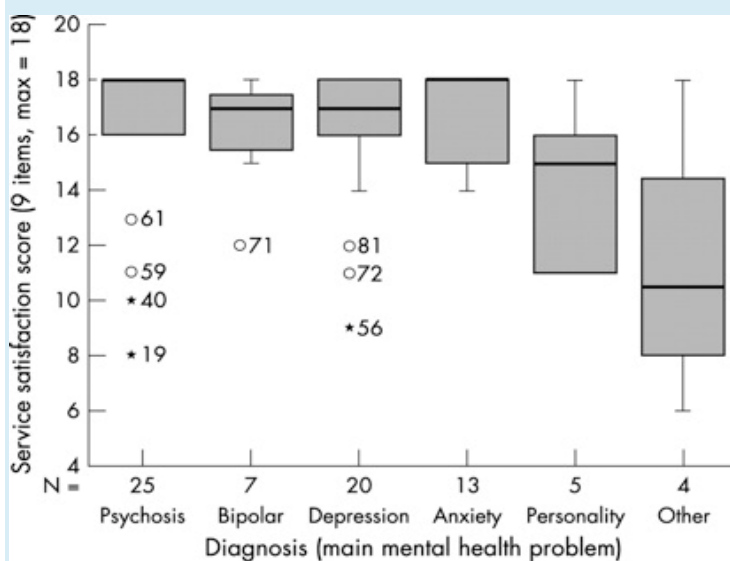
Marked out of 1.00

[Flag question](#)

Question text

Mok CritApp 005

120 adults of working age who were receiving input from a community mental health team in North Yorkshire were invited to complete the Carers' and User's Expectations of Services, User Version (CUES-U) questionnaire. This is a 16 item self-rated outcome measure that covers the issues that those using mental health services have identified as being their priorities. Total satisfaction scores for patients according to their psychiatric diagnosis are shown in the figure below. (From Blenkiron P and Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003;79:337-340.) In the graph, the width of the shaded area represents



Select one:

- ☐ Confidence interval
- ☐ Severity of the diagnosis
- ☐ Sample size
- ☐ Standard deviation
- ☐ None of the above

Feedback

Your answer is incorrect.

The width of boxes does not mean anything in these plots.

The correct answer is: None of the above

Question 6

Not answered

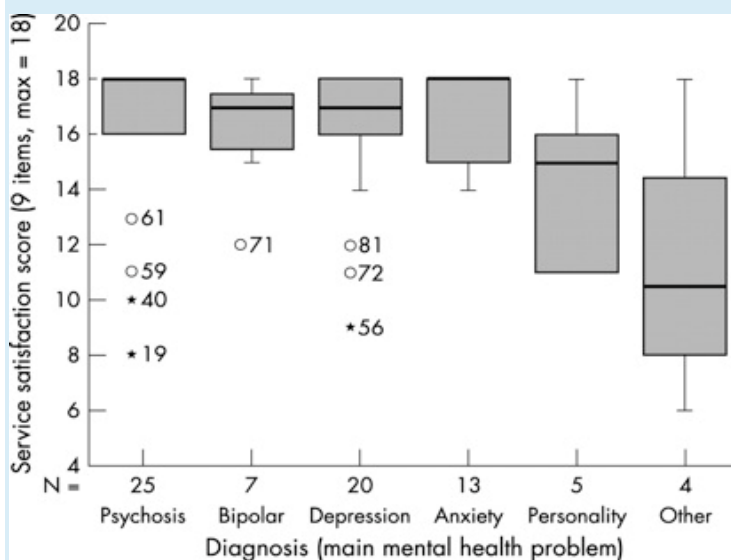
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[Flag question](#)

Question text

Mok CritApp 006

120 adults of working age who were receiving input from a community mental health team in North Yorkshire were invited to complete the Carers' and User's Expectations of Services, User Version (CUES-U) questionnaire. This is a 16 item self-rated outcome measure that covers the issues that those using mental health services have identified as being their priorities. Total satisfaction scores for patients according to their psychiatric diagnosis are shown in the figure below. (From Blenkiron P and Hammill CA. What determines patients' satisfaction with their mental health care and quality of life? Postgraduate Medical Journal 2003;79:337-340.) Which of the following is a correct interpretation of the given information and the graph?



Select one:

- ☐ None of the patients with personality disorder are dissatisfied
- ☐ Lowest level of satisfaction is seen in anxiety group
- ☐ Some patients with psychosis show extremes of variation in level of satisfaction
- ☐ Patients with 'other' diagnoses show highest level of satisfaction
- ☐ Significant satisfaction is observed in psychosis and depression groups

Feedback

Your answer is incorrect.

The group of patients with psychosis have more outliers and extreme values outside the interquartile range observed. We can only say - in a descriptive fashion - which group is higher or lower than whom as box whiskers are descriptive graphs. We cannot infer statistical significance from these figures. The asterisk is not a mark of p-values - it marks outliers. So the statement B is wrong. The patients in the 'other' group have a broad range, but the size of the box does not mean they have the highest level of satisfaction. In fact, their median is lower than most other groups. Statement E is wrong as we cannot say if anyone in these groups was dissatisfied or not using these plots.

The correct answer is: Some patients with psychosis show extremes of variation in level of satisfaction

Question 7

Not answered

Marked out of 1.00

Flag question