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| Title                       | Proficiency-based progression training: an 'end to end' model for decreasing error applied to achievement of effective epidural analgesia during labour: a randomised control study  |
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Supplementary table 1: Study part 3 - Baseline psychomotor test \*

| Variables                                    | Group S |      | Group P |     | P value <sup>#</sup> |
|--|---------|------|---------|-----|----------------------|
|  | Median  | IQR  | Median  | IQR |                      |
| <b>Edinburgh Handedness Inventory scores</b> | 90      | 14.5 | 90      | 19  | 0.29                 |
| <b>Card rotation test score</b>              | 98%     | 0    | 95%     | 0   | 0.81                 |
| <b>Cube comparison test scores</b>           | 90%     | 10   | 90      | 0   | 0.81                 |
| <b>Map planning test scores</b>              | 97%     | 0    | 97%     | 0   | 0.61                 |

*\*All parametric data were summarized as mean and standard deviation. All non-parametric data were summarized as median and inter-quartile range.*

*# Man Whitney -U test*

Supplementary table 2: Study part 3- Demographics, parity and type of delivery\*

| Demographics                                  |                     | Group S                   | Group P               | P value    |            |         |
|---|---------------------|---------------------------|-----------------------|------------|------------|---------|
| Mean age in years ( SD)                       |                     | 31 (5)                    | 31 (5)                | 0.58**     |            |         |
| Median weight in Kgs (25 th,75 th percentile) |                     | 70 (62,83)                | 68(62,80)             | 0.64***    |            |         |
| Median Height in cms (25 th,75 th percentile) |                     | 164 (160,169)             | 164 (161,169)         | 0.85***    |            |         |
| Median BMI (25 th,75 th percentile)           |                     | 26.7 (23, 29.7)           | 25.1 (23,28.7)        | 0.33***    |            |         |
| Groups  | Para 0 (n)          | Para 1 (n)                | Para 2 (n)            | Para 3 (n) | Para 4 (n) | P value |
| Group S                                       | 39                  | 29                        | 8                     | 3          | 1          | 0.21#   |
| Group P                                       | 35                  | 12                        | 10                    | 3          | 0          |         |
| Groups  | Normal delivery (n) | Instrumental delivery (n) | Caesarean section (n) | P value    |            |         |
| Group S                                       | 52                  | 15                        | 13                    | 0.97#      |            |         |
| Group P                                       | 38                  | 12                        | 10                    |            |            |         |

\*All parametric data were summarized as mean and standard deviation. All non-parametric data were summarized as median and inter-quartile range.

\*\*Students t – test

\*\*\* Mann Whitney- U test

# Chi Square test

Supplementary table 3: Study part 3 - Video assessments\*

| <b>Variables</b>                                | <b>Group S</b> | <b>Group P</b> |
|---|----------------|----------------|
| <b>Number of videos</b>                         | 1              | 11             |
| <b>Mean number of errors based on metrics**</b> | 16.5           | 4.3            |
| <b>IRR</b>                                      | 0.96           | 0.96           |

*\*All parametric data were summarized as mean and standard deviation. All non-parametric data were summarized as median and inter-quartile range.*

*\*\* As group S had only one participant, could not report SD.*