

Appendix 4. Comparing FCM indices between game and article groups before intervention

Table A4.1

| | Control Map 1 (n=20) | Treatment Map 1 (n=21) | (Unpaired) t- test p-value | Mann Whitney test p-value |
|--|-------------------------|---------------------------|-------------------------------|------------------------------|
| Number of concepts (N) | 9.15 (2.70) | 8.67 (2.78) | 0.5759 | 0.4927 |
| Number of connections (C) | 13.7 (5.67) | 11.33 (5.18) | 0.1704 | 0.1254 |
| Ratio of connections to nodes (C/N) | 1.48 (0.39) | 1.31 (0.41) | 0.1687 | 0.1705 |
| Density | 0.08 (0.07) | 0.11 (0.09) | 0.2065 | 0.1144 |
| Number of receiver concepts | 1.95 (1.67) | 1.90 (1.39) | 0.8341 | 0.7531 |
| Number of transmitter concepts | 1.8 (1.06) | 1.86 (1.31) | 0.8792 | 0.9782 |
| Number of unconnected nodes | 0.15 (0.67) | 0.42 (0.98) | 0.2965 | 0.1908 |