

## DATA SUPPLEMENT 5

Summary of MRS spectral quality estimators

|                    | Water linewidth (Hz) <sup>1</sup> |      |      |       |       | NAA area SNR <sup>2</sup> |      |      |       |       |
|--------------------|-----------------------------------|------|------|-------|-------|---------------------------|------|------|-------|-------|
|                    | DN                                | 10M  | 30M  | HPAR1 | HPAR2 | DN                        | 10M  | 30M  | HPAR1 | HPAR2 |
| Anterior cingulate |                                   |      |      |       |       |                           |      |      |       |       |
| Mean               | 7.5                               | 8.0  | 7.9  | 7.5   | 8.4   | 9.8                       | 9.9  | 7.7  | 8.4   | 5.9   |
| CV, %              | 14.8                              | 13.8 | 17.7 | 15.6  | 25.1  | 58.4                      | 41.2 | 40.3 | 48.5  | 23.8  |
| Thalamus           |                                   |      |      |       |       |                           |      |      |       |       |
| Mean               | 10.4                              | 10.7 | 10.0 | 9.9   | 9.8   | 12.9                      | 14.5 | 9.2  | 11.0  | 9.8   |
| CV, %              | 20.0                              | 15.9 | 21.7 | 13.1  | 12.3  | 75.9                      | 51.1 | 32.7 | 44.2  | 45.9  |

1. Fitted linewidth of the water unsuppressed acquisition.

2. Area signal-to-noise ratio for NAA (ratio of time domain amplitude to standard deviation of noise).