

Supplementary Table 1. Summary of factors influencing decisions

| Studies                                  | Patient related factors |                               |                         |                      |                       |            |                           |  | Organisational factors |           | Characteristics of individual clinicians |            |           |          |
|--|-------------------------|-------------------------------|-------------------------|----------------------|-----------------------|------------|---------------------------|--|------------------------|-----------|--|------------|-----------|----------|
|  | Age                     | Pre- and post-stroke function | Type/severity of stroke | Presence of dementia | Social/family support | Motivation | Demonstration of progress | Predictions about recovery / discharge | Service pressure       | Insurance | Clinical discipline                      | Experience | Knowledge | Emotions |
| Burton et al. (2015) <sup>21</sup>       |                         |                               | ✓                       | ✓                    |                       | ✓          |                           |  | ✓                      |           |  |            |           | ✓        |
| Daniëls et al. (2002) <sup>19</sup>      |                         | ✓                             |                         |                      |                       | ✓          | ✓                         |  |                        |           |  |            |           | ✓        |
| Johnson et al. (2015) <sup>23</sup>      | ✓                       |                               |                         |                      | ✓                     |            |                           |  | ✓                      |           |  |            | ✓         |          |
| Lam Wai Shun et al. (2017) <sup>22</sup> | ✓                       | ✓                             |                         |                      |                       | ✓          | ✓                         | ✓                                      | ✓                      |           | ✓  | ✓          | ✓         | ✓        |
| Longley et al. (2018) <sup>10</sup>      |                         | ✓                             |                         | ✓                    |                       |            | ✓                         | ✓                                      | ✓                      |           | ✓  | ✓          | ✓         | ✓        |
| Luker et al. (2014) <sup>14</sup>        | ✓                       | ✓                             | ✓                       |                      | ✓                     | ✓          | ✓                         | ✓                                      | ✓                      |           |  | ✓          | ✓         | ✓        |
| Lynch et al. (2017) <sup>16</sup>        |                         |                               |                         | ✓                    | ✓                     |            | ✓                         | ✓                                      |                        |           |  |            |           |          |

|   |   |   |   |   |   |   |  |   |   |   |   |  |   |  |
|---|---|---|---|---|---|---|--|---|---|---|---|--|---|--|
| Lynch et al. (2016) <sup>15</sup>         |   |   | ✓ | ✓ |   |   |  |   |   |   |   |  | ✓ |  |
| Hakkennes et al. (2013) <sup>17</sup>     |   | ✓ |   | ✓ | ✓ |   |  |   |   |   |   |  |   |  |
| Hasenbein et al. (2002) <sup>31</sup>     | ✓ |   |   |   |   |   |  |   |   |   | ✓ |  |   |  |
| Kennedy et al. (2012) <sup>18</sup>       | ✓ |   |   |   |   |   |  | ✓ | ✓ |   |   |  |   |  |
| Magdon-Ismail et al. (2016) <sup>24</sup> |   |   |   |   | ✓ |   |  |   | ✓ | ✓ | ✓ |  |   |  |
| Putman et al. (2007) <sup>20</sup>        |   | ✓ |   | ✓ | ✓ | ✓ |  |   |   | ✓ |   |  |   |  |

## Appendix 1

### MEDLINE Search strategy

| Search Order | Search terms incorporating Boolean terminology                | Article yield |
|--------------|---|---------------|
| S1           | (MH "Stroke") OR (MH "cerebrovascular accident) OR (MH "CVA") | 237,055       |
| S2           | (MH "rehabilitation")   | 307,070       |
| S3           | (MH "therapy")  | 3,702,752     |
| S4           | S2 OR S3  | 3,909,165     |
| S5           | (MH "Decision making")  | 163,768       |
| S6           | (MH "clinical reasoning")                                     | 2,598         |
| S7           | S5 OR S6  | 165,750       |
| S8           | S1 AND S4 AND S7  | 1,293         |