Supporting Information

Supplementary tables and acknowledgements
This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors.

Table 1. Hospital human research ethics committees (HRECs) that approved collection of Victorian Stroke Telemedicine program data

<table>
<thead>
<tr>
<th>Human research ethics committee</th>
<th>Approvals</th>
</tr>
</thead>
</table>
| National ethics application forms (NEAFs) upon which HREC approvals and site specific agreements (SSAs) were based | NEAF AU/1/5FC418 (3/10/13)  
NEAF AU/1/B3B6115 (7/2/14)  
NEAF AU/1/E77B110 (3/11/14) |
| Bendigo Health Care Group HREC | Bendigo SSA Number SSA/13/BCHG35  
Approval HREC/13/B/BHCG/31  
Echuca SSA Number SSA/13/BHCG/32  
Approval HREC/13/B/BHCG/31  
Swan Hill SSA Number SSA/13/BHC35  
Approval HREC/13/B/BHCG/31 |
| Mildura Base Hospital HREC | SSA not required  
Approval number 20131001  
Amendments pending (no meeting since October 2015) |
| Albury/Wodonga HREC (covers Albury Hospital, Wodonga Hospital) | SSA not required  
Approval 394-14-3 |
| Goulburn Valley (Shepparton) HREC | SSA GVH08/14  
Approval GVH 08/14 |
| Northeast Health Wangaratta HREC | SSA AU/5/9E97112  
Approval 137 |
| La Trobe Regional Hospital (LRH) HREC | La Trobe AU/5/3D69119  
Approval 2014-23  
Central Gippsland Hospital (Sale) AU/5/C3FB19  
Approval 2014-23 (amendment of additional site to the LRH application)  
Bass Coast Health (Wonthaggi) SSA not required  
Accepted authorised HREC approvals (provided Latrobe HREC) on 08/06/2016 |
| Ballarat Hospital | SSA14/BHSSJOG/47  
Approval HREC/14/BHSSJOG/47 |
| West Gippsland Hospital (Warragul) | AU/5/47BB111  
No approval number (approval date 10/12/2014) |
| Bairnsdale Regional Health Service | AU/5/81DE18  
Approval 2014-23 (amendment of additional site to the LRH application) |
| Wimmera Health Care Group | AU/5/81DE18  
Approval CRC Ref No 15/6 |
| Western District Health Service (Hamilton Base Hospital) | SSA not required  
Approval 14/2015 |
| Southwest Healthcare (Warrnambool) | SSA not required  
Project number 04/2016; Approval date 06 June 2016 |
Table 2. Factors associated with receiving thrombolysis: multivariable logistic regression with clustering by hospital

<table>
<thead>
<tr>
<th></th>
<th>Thrombolysis OR (95% CI)</th>
<th>Door-to-needle time under 60 minutes* OR (95% CI)</th>
<th>Intracerebral haemorrhage after thrombolysis OR (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients with outcome</td>
<td>854</td>
<td>291</td>
<td>292</td>
</tr>
<tr>
<td>VST period v control period†</td>
<td>1.27 (0.86–1.88)</td>
<td>3.00 (1.21–7.44)</td>
<td>0.22 (0.07–0.71)</td>
</tr>
<tr>
<td>Age (years), per year</td>
<td>0.97 (0.96–0.98)</td>
<td>1.00 (0.98–1.01)</td>
<td>1.04 (1.01–1.07)</td>
</tr>
<tr>
<td>Sex (men)</td>
<td>0.91 (0.69–1.20)</td>
<td>1.34 (0.79–2.27)</td>
<td>1.04 (1.03–2.97)</td>
</tr>
<tr>
<td>First ever stroke</td>
<td>1.71 (1.14–2.56)</td>
<td>2.12 (1.09–4.11)</td>
<td>2.23 (0.74–6.71)</td>
</tr>
<tr>
<td>Unable to walk on admission‡</td>
<td>3.26 (1.95–5.46)</td>
<td>1.58 (0.68–3.64)</td>
<td>0.83 (0.25–2.69)</td>
</tr>
<tr>
<td>Hospital size (number of stroke admissions per year)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 75 (Reference category)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>75–199</td>
<td>1.34 (0.69–2.65)</td>
<td>2.81 (0.72–11.05)</td>
<td>1.28 (0.17–9.73)</td>
</tr>
<tr>
<td>≥ 200</td>
<td>1.04 (0.51–2.10)</td>
<td>1.34 (0.37–4.81)</td>
<td>0.69 (0.08–5.92)</td>
</tr>
</tbody>
</table>

OR = odds ratio, CI = confidence interval.
* One person with missing time to thrombolysis.
† Includes all patients presenting during the VST period, regardless of whether they had a VST consultation.
‡ Proxy for stroke severity.

Table 3. Factors associated with time to diagnosis and treatment: multivariable median regression with clustering by hospital

<table>
<thead>
<tr>
<th></th>
<th>Onset-to-arrival time β (95% CI)</th>
<th>Door-to-review time β (95% CI)</th>
<th>Door-to-scan time β (95% CI)</th>
<th>Door-to-needle time* β (95% CI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients with outcome</td>
<td>1024</td>
<td>830</td>
<td>991</td>
<td>291</td>
</tr>
<tr>
<td>VST period v control period†</td>
<td>−8.07 (−17.5 to 1.34)</td>
<td>−5.48 (−6.93 to 4.02)</td>
<td>−9.88 (−15.0 to −4.73)</td>
<td>−25.9 (−39.4 to −12.4)</td>
</tr>
<tr>
<td>Age (years), per year</td>
<td>0.51 (0.16 to 0.86)</td>
<td>0.06 (0.02 to 0.10)</td>
<td>0.22 (0.07 to 0.37)</td>
<td>0.12 (−0.32 to 0.56)</td>
</tr>
<tr>
<td>Sex (men)</td>
<td>2.32 (−6.90 to 11.5)</td>
<td>0.53 (−0.55 to 1.61)</td>
<td>1.76 (−2.56 to 6.08)</td>
<td>1.92 (−8.07 to 11.9)</td>
</tr>
<tr>
<td>First ever stroke</td>
<td>4.16 (−6.27 to 14.6)</td>
<td>0.21 (−1.07 to 1.49)</td>
<td>−2.65 (−8.13 to 2.82)</td>
<td>−13.7 (−30.0 to 2.61)</td>
</tr>
<tr>
<td>Unable to walk on admission‡</td>
<td>−2.24 (−13.3 to 8.79)</td>
<td>−2.19 (−3.69 to −0.69)</td>
<td>−8.64 (−13.9 to −3.35)</td>
<td>−13.4 (−28.9 to 2.18)</td>
</tr>
<tr>
<td>Hospital size (number of stroke admissions per year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 75 (reference)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>75–199</td>
<td>9.06 (−9.67 to 27.8)</td>
<td>1.53 (−3.89 to 0.84)</td>
<td>−16.4 (−30.8 to −1.97)</td>
<td>−1.58 (−19.3 to 16.1)</td>
</tr>
<tr>
<td>≥ 200</td>
<td>14.7 (−4.60 to 33.9)</td>
<td>1.92 (−0.66 to 4.50)</td>
<td>−5.76 (−20.5 to −8.96)</td>
<td>9.18 (−10.21 to 28.6)</td>
</tr>
</tbody>
</table>

CI = confidence interval.
β coefficient: median difference in time (in minutes) between groups.
* One person with missing time to thrombolysis.
† Includes all patients presenting during the VST period, regardless of whether they had a VST consultation.
‡ Proxy for stroke severity.
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