A 58-year-old man presented with a 3-year history of minimally progressive right-sided weakness. Examination revealed facial asymmetry, mild pyramidal weakness in the upper and lower limbs with spasticity, brisk reflexes, and upgoing plantar on the right only. Sensory

From the Brain and Mind Centre (W.H., S.T., C.M., M.C.K.), the University of Sydney; Prince of Wales Clinical School (W.H.), the University of New South Wales; and Southern Neurology (W.H., R.S.), Kogarah, Australia.

Go to Neurology.org/N for full disclosures. Funding information and disclosures deemed relevant by the authors, if any, are provided at the end of the article.
examination was normal. MRI brain abnormalities are demonstrated (figures 1 and 2 and video). Serial EMG of the limbs and motor unit number estimation were symmetrically normal without evidence of concurrent lower motoneuron (LMN) pathology. Unilateral midbrain atrophy in Mills syndrome is rarely reported.1 The current case illustrates the associated asymmetric reduction in corticospinal tract fibers and absence of LMN involvement, further supporting a hemiparetic variant of primary lateral sclerosis.2

Study Funding
No targeted funding reported.

Disclosure
The authors report no disclosures relevant to the manuscript. Go to Neurology.org/N for full disclosures.

Appendix

<table>
<thead>
<tr>
<th>Name</th>
<th>Location</th>
<th>Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>William Huynh, PhD, MBBS</td>
<td>Brain and Mind Centre, University of Sydney; Prince of Wales Clinical School, University of New South Wales; Southern Neurology, Kogarah, Australia</td>
<td>Designed and conceptualized manuscript, drafted manuscript</td>
</tr>
<tr>
<td>Sicong Tu, PhD</td>
<td>Brain and Mind Centre, University of Sydney, Australia</td>
<td>Data acquisition and interpretation, drafted and final edit of the manuscript</td>
</tr>
<tr>
<td>Colin Mahoney, PhD, MBBS</td>
<td>Brain and Mind Centre, University of Sydney, Australia</td>
<td>Data acquisition, final edit of manuscript</td>
</tr>
<tr>
<td>Raymond Schwartz, PhD, MBBS, FRACP</td>
<td>Southern Neurology, Kogarah; Sydney University, Australia</td>
<td>Patient management, final edit of manuscript</td>
</tr>
<tr>
<td>Matthew Kiernan, DSc, PhD</td>
<td>Brain and Mind Centre, University of Sydney, Australia</td>
<td>Supervision and final edit of the manuscript</td>
</tr>
</tbody>
</table>

References

Get NeuroReady!


Announcing…

Child Neurology: A Case-Based Approach
Cases from the Neurology® Resident & Fellow Section

This collaboration between the American Academy of Neurology (AAN) and the Child Neurology Society (CNS) represents a collection of reprinted cases from the past 15 years from the Neurology Resident & Fellow Section.

An invaluable resource for both adult and pediatric neurologists and trainees! FREE download: NPub.org/cnbook
Mills Syndrome: Clinical and Radiologic Asymmetry
William Huynh, Sicong Tu, Colin J. Mahoney, et al.
Neurology 2021;96;677-678 Published Online before print February 16, 2021
DOI 10.1212/WNL.0000000000011710

This information is current as of February 16, 2021

| Updated Information & Services |  including high resolution figures, can be found at: http://n.neurology.org/content/96/14/677.full |
| References |  This article cites 2 articles, 1 of which you can access for free at: http://n.neurology.org/content/96/14/677.full#ref-list-1 |
| Subspecialty Collections |  This article, along with others on similar topics, appears in the following collection(s):
  All Clinical Neurology  http://n.neurology.org/cgi/collection/all_clinical_neurology
  Amyotrophic lateral sclerosis  http://n.neurology.org/cgi/collection/amyotrophic_lateral_sclerosis_
  MRI  http://n.neurology.org/cgi/collection/mri |
| Permissions & Licensing |  Information about reproducing this article in parts (figures, tables) or in its entirety can be found online at: http://www.neurology.org/about/about_the_journal#permissions |
| Reprints |  Information about ordering reprints can be found online: http://n.neurology.org/subscribers/advertise |