Neurodegenerative disease risk among former international rugby union players
Supplementary figures and tables

Supplementary Table 1: ICD-9 and ICD-10 codes for outcomes assessed.

<table>
<thead>
<tr>
<th>Outcome</th>
<th>ICD-9</th>
<th>ICD-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neurodegenerative disease</td>
<td>290.0 to .4; 294.1 &amp; .2; 331.0 to .2 &amp; .6 to .9; 332; 335.2</td>
<td>F01 to F03; G12.2; G20; G21; G23.1 to .3, .8 &amp; .9; G30; G31</td>
</tr>
<tr>
<td>Dementia, not otherwise specified</td>
<td>290.0 to .4; 294.1 &amp; .2; 331.0 to .2 &amp; .6 to .9;</td>
<td>F01 to F03; G23.1 to .3; G30; G31</td>
</tr>
<tr>
<td>Motor neuron disease/ Amyotrophic lateral sclerosis</td>
<td>335.2</td>
<td>G12.2</td>
</tr>
<tr>
<td>Parkinson’s disease</td>
<td>332</td>
<td>G20; G21; G23.8 &amp; .9</td>
</tr>
<tr>
<td>Cardiovascular disease</td>
<td>390 to 459</td>
<td>I00 to I99</td>
</tr>
<tr>
<td>Respiratory disease</td>
<td>460 to 519</td>
<td>J00 to J99</td>
</tr>
<tr>
<td>Cancer</td>
<td>140 to 239</td>
<td>C00 to D49</td>
</tr>
</tbody>
</table>
Supplementary Table 2: British National Formulary (BNF) subsections and drugs assessed in the analysis of neurodegenerative disease related prescriptions.

<table>
<thead>
<tr>
<th>BNF section</th>
<th>Drugs</th>
</tr>
</thead>
</table>
| 4.9.1       | Apomorphine hydrochloride  
               Apomorphine hydrochloride hemihydrate  
               Carbidopa  
               Co-beneldopa (Benserazide/levodopa)  
               Co-careldopa (Carbidopa/levodopa)  
               Entacapone  
               Levodopa  
               Levodopa/carbidopa/entacapone  
               Opicapone  
               Rasagiline mesylate  
               Safinamide  
               Selegiline hydrochloride  
               Tolcapone |
| 4.9.2       | Orphenadrine hydrochloride  
               Trihexyphenidyl hydrochloride |
| 4.9.3       | Riluzole |
| 4.11        | Donepezil hydrochloride  
               Galantamine  
               Idebenone  
               Memantine hydrochloride  
               Rivastigmine |
Supplementary Figure 1: Flow diagram of the creation of the final former international rugby player and matched general population comparison group.

654 international rugby player records submitted for CHI matching

→ 240 failed CHI matching

414 former international rugby players CHI matched

General population comparison group matched on a 3:1 basis by sex, year of birth, and area socioeconomic status

→ 2 former international rugby players removed as no final area postcode identified

Final cohort:
412 former international rugby players