Supplementary Table S1—Several examples of large-cohort studies that employ various methodologies to estimate dog lifespan via records collected from multiple sources between 1981 and the present, and the median lifespan values they report.

<table>
<thead>
<tr>
<th>Citation</th>
<th>Median reported dog lifespan (yrs)**</th>
<th>Age at death range (yrs)</th>
<th>Dates of record collection</th>
<th>Location of record collection</th>
<th>Source of records</th>
<th>How data were obtained for study</th>
<th>Cohort size</th>
<th>Breed(s) included</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hayashidani et al., 1988</td>
<td>LE(1) Overall = 8.6 Purebred = 8.5 Mixed-breed = 8.8</td>
<td>0-26</td>
<td>June 1981 - May 1982</td>
<td>Japan (Kanto)</td>
<td>Animal cemetery records</td>
<td>---</td>
<td>4,915</td>
<td>breeds; mongrels</td>
</tr>
<tr>
<td>Patronek et al., 1997</td>
<td>Overall median: 8.5</td>
<td>1-?</td>
<td>1980 - 1990</td>
<td>US and Canada</td>
<td>VMDB</td>
<td>Deidentified EMR data</td>
<td>38,006</td>
<td>37 breeds; mixed breeds</td>
</tr>
<tr>
<td>Proschowsky et al., 2003</td>
<td>Overall median = 10</td>
<td>1-13</td>
<td>March - April 1997</td>
<td>Denmark</td>
<td>Danish Kennel Club questionnaire</td>
<td>DKC/FCI – survey sent in monthly member mag; used originally by Lund, 2001</td>
<td>2,928</td>
<td>20 breeds; mixed breed</td>
</tr>
<tr>
<td>Michell, 1999</td>
<td>Overall median = 12</td>
<td>0-22</td>
<td>1998? (ND in methods)</td>
<td>UK</td>
<td>Crufts + Pet Protect (insurance co.)</td>
<td>Direct mail survey/questionnaire to owners</td>
<td>3,126</td>
<td>20+ breeds; mixed breeds</td>
</tr>
<tr>
<td>Lewis et al., 2018</td>
<td>Overall median = 10.33</td>
<td>0-26</td>
<td>2005 - 2014</td>
<td>UK</td>
<td>UK Kennel Club</td>
<td>Owner-based survey</td>
<td>5,663</td>
<td>49 purebred</td>
</tr>
<tr>
<td>O’Neill et al., 2013</td>
<td>Overall median = 12 Crossbreed (mixed breed + specified crosses): = +1.2 as group</td>
<td>0-23</td>
<td>Jan. 2009- Dec. 2011</td>
<td>UK</td>
<td>VetCompass Program (private practice)</td>
<td>Deidentified EMR data</td>
<td>102,609 (total) 5,095 (confirmed deaths)</td>
<td>35 breeds; cross-breeds</td>
</tr>
<tr>
<td>Inoue et al., 2018</td>
<td>LE(0) Overall = 13.7 Purebred = 13.6 Crossbreed (mixed?): = 15.1</td>
<td>0-15.7</td>
<td>Jan 2012 - March 2015</td>
<td>Japan (Tokyo)</td>
<td>Animal cemetery records</td>
<td>---</td>
<td>12,039</td>
<td>purebred; crossbreeds</td>
</tr>
<tr>
<td>Study</td>
<td>Median Age (years)</td>
<td>Age Range</td>
<td>Location</td>
<td>Database Type</td>
<td>Data Source</td>
<td>Dead/Tot</td>
<td>Breeds/Mixed Breeds</td>
<td></td>
</tr>
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<tr>
<td>Urfer et al., 2020</td>
<td>Overall median MST = 15.4</td>
<td>---</td>
<td>US</td>
<td>Vetmed software (private practice)</td>
<td>Deidentified EMR data</td>
<td>20,970 (total) 1,535 (confirmed deaths)</td>
<td>7 AKC breed groups; cross-breeds (hybrids); mixed breed (mongrels)</td>
<td></td>
</tr>
<tr>
<td>Teng et al., 2022</td>
<td>LE(0) Overall = 11.23</td>
<td>0 - 20+</td>
<td>UK</td>
<td>VetCompass Program (private practice)</td>
<td>Deidentified EMR data</td>
<td>876,039 (total) 30,563 (confirmed deaths)</td>
<td>263 breeds; crossbreeds; no breed info</td>
<td></td>
</tr>
<tr>
<td>Mata &amp; Mata, 2023</td>
<td>Purebred: 11.7 years  Crossbreed (specified breed cross): 12.05  Mixed-breed: 13.67</td>
<td>---</td>
<td>UK</td>
<td>VetCompass Program (private practice)</td>
<td>Open Access (Royal Dick / O'Neill dataset)</td>
<td>30,470</td>
<td>44 breeds; mongrels; cross-breeds</td>
<td></td>
</tr>
<tr>
<td>Montoya et al., 2023</td>
<td>LE(0) Overall = 12.69  Mixed-breed = 12.71</td>
<td>0-17+</td>
<td>US</td>
<td>Banfield pet hospitals</td>
<td>Deidentified EMR data</td>
<td>13,292,929</td>
<td>300 breeds; mixed breeds</td>
<td></td>
</tr>
</tbody>
</table>

(*) Some, but not all reports indicate differences between purebred and mixed-breed cohort members.
(+ ) some, but not all reports generated life expectancy tables (le) from birth le(0) or other age, e.g. Le(1).