Appendix 4: Cross-Linguistic Survey of Closure Durations

Table 1: Citation Forms

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Language | notes | word-medial /p, t, k/ | word-medial /b, d, g/ | difference voiceless/voiced word-medial | word-final /p, t, k/ | word-final /b, d, g/ | diff. voiceless/voiced word-final | Page ref. |
| Ni Chasaide (1985) | Irish |  |  |  |  |  |  |  | p.174 |
|  |  | ‘nonsense words’, only dental stops (i.e. /t, d/ | ~ 110 | ~ 100 | ~ 10 | ~ 100 | ~ 90 | ~ 10 |  |
| Abdelli-Beruh (2004) | French |  |  |  |  |  |  |  |  |
|  |  | ‘syllable-initial’: citiation | 87 | 65 | 22 |  |  |  | p.210 |
|  |  | ‘syllable-final’: citation | 74 | 53 | 21 |  |  |  | p.210 |
| Lisker (1957) | English |  |  |  |  |  |  |  |  |
|  |  | only labial stops, i.e. /b, p/ | 120 | 75 (just /b/ | 45 |  |  |  | p.43 |
| Lousada (2010) | Portuguese |  |  |  |  |  |  |  |  |
|  |  |  | 109 | 65 | 44 | 129 | 82 | 47 | p.268 |
| Barry (2016) | Russian |  |  |  |  |  |  |  |  |
|  |  |  | 90.7- 99.5 | 67.8 -  74.1 | 16.6 - 31.7 |  |  |  | p.161 |
| Tamimi and Khattlab (2018) | Lebanese |  |  |  |  |  |  |  |  |
|  |  | 87.57 | 67.97 | 19.6 |  |  |  |  | p.317 |

Table 2: Connected Speech

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Wheatley (2020) | Irish, Donegal |  |  |  |  |  |  |  |  |
|  |  |  | 97.59 | 68.83 | 28.76 | 158.71 | 82.89 | 75.82 |  |
| Sokolovic-Perovic (2012) | Serbian |  |  |  |  |  |  |  |  |
|  |  | word-final, intervocalic i.e. V\_#V |  |  |  | 98.38 | 65.59 | 32.79 | p.176 |
|  |  | utterance final, i.e. V\_#P  citation |  |  |  | 162.66 | 104.72 | 57.88 | p.178 |
| Luce and Charles-Luce (1985) | English |  |  |  |  |  |  |  |  |
|  |  | Word-Final, Phrase-medial |  |  |  | 86 | 68 | 18 | p.1952 |
| Stathopoulos and Weismer (1983) | English |  |  |  |  |  |  |  |  |
|  | connected speech: ‘sentence setting’, stressed syllables |  | (96, 82, 72)  (p, t, k) | (92, 76, 68)  (b, d, g) | (4, 6, 4) | (98, 58, 83) | (75, 40, 64) | (23, 18, 19) | p.397 |