**Supplemental Table 1. Comparison of studies evaluating respondents’ ASA PS assignment for hypothetical cases. 2, 6, 12, 14, 27-30**

| **Author** | **Number of Respondents** | **Response Rate** | **Method of Survey Distribution** | **Single vs. Multicenter** | **Number of Different ASA PS Scores Assigned per Case** | **Did Any Case Have 100% Agreement on ASA PS Score?** |
| --- | --- | --- | --- | --- | --- | --- |
| Kuza et al. (2017) | 338 | 6.5% for trauma surgeons; 1.8% for anesthesiologists | Emailed online link | Multicenter | 4-6 scores | No |
| Owens et al.2 (1978) | 255 | 77% | Postal mail | Multicenter | NS | No; 6/10 cases were deemed to have a correct answer range for ASA class |
| Aronson et al.6 (2003) | 70 | NS | Paper and pencil questionnaire | Multicenter | 2-4 scores | No |
| Haynes et al.14 (1995) | 97 | 85.8% | Postal mail | Multicenter | 2-5 scores | No |
| Ranta et al.27 (1997) | 108 | 43.4% | Postal mail | Multicenter | 2-5 scores | No |
| Mak et al.28 (2002) | 97 | 61% | Postal mail | Multicenter | 2-3 scores | No |
| Aplin et al.29(2007) | 130 | 73.9% | Postal mail | Multicenter | 2-4 scores | No |
| Ihejirika et al.30 (2015) | 33 | 28.9% | Emailed online link | Single | 1-4 scores | Yes, 1 out of 8 cases |
| Ringdal et al.12 (2013) | 10 | 52% | Web-based | Single | NS | NS, but 73.6% of cases were correctly graded |

*NS=not specified*