

Timeline of the CQ-i Development Studies

| Timeline | Population/scientific activities | Results/decisions |
|-----------|--|---|
| 2003–2007 | Literature research, item pool, evaluating other scales | Selection of 64 items |
| 2007 | N = 150, paper-pencil | Two items removed and 15 items reformulated; <i>CQ-i beta version = 62 items</i> |
| 2008 | N = 2,474 50% paper-pencil, 50% online | Publication of Ovidiu Brazdau's Ph.D. thesis, socio-demographics correlations, and body types correlations; CQ-i Beta Version available online (until 2012) |
| 2009–2010 | Consultation with experts and conference discussions | Feedback from experts: Harris Friedman, Bernard Baars, Jonathan Shear, and John Rowan 2009 Toward a Science of Consciousness conference presentation, Hong Kong |
| 2009–2011 | N = 5,464, online, 5-point Likert scale N = 112, online, 6-point Likert scale N = 65, paper-pencil | Sample composition: Romanian = 5,012, English = 1,168 Changed from a 5-point to a 6-point Likert scale (kept agree-disagree format) to adjust for the observed tendency of participants to mark the answer in the middle of the scale when unsure about the answer |
| May 2011 | N = 70, paper-pencil; military population | Discussions |
| 2011 | N = 30, paper-pencil | Discussions |
| 2011 | N = 120, paper-pencil, general ability measure for adults | Conference paper: Brazdau, O., & Mihai, C. (2011). The Consciousness Quotient: A new predictor of students' academic performance. <i>Procedia - Social and Behavioral Sciences</i> , 11, 245–250 |
| 2011 | N = 145, paper-pencil | 2011 Toward a Science of Consciousness conference presentation, Stockholm |

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| Jan–Aug 2012 | Library research. Five researchers in the research team: Petru Constantinescu, Ramona Sbircea, Iuliana Constantinescu, Andreea Butucescu, and Sofia Dumitriu | Re-checked all the items using 24 criteria Each conscious behavior searched for in the scientific literature Compliance with APA, ITC, and ETS standards Evaluation for introducing validity scales: Lie Scale, Acquiescence Scale, and Extremity Response |
| Sept 2012 | N = 12, Willis’ Cognitive Interviewing; Likert scale evaluation: revised from agreement to frequencies | Conference paper in <i>Procedia - Social and Behavioral Sciences</i> (2012): Consciousness Quotient Inventory improvement: Qualitative study using cognitive interviewing approach. All items were revised so that the statements would refer to <i>behaviors</i> instead of <i>attitudes</i> The Likert scale was modified to a six-level frequency scale |
| Oct 2012 | N = 120, paper-pencil | Updated eight items and life situations/conscious behaviors |
| Dec 2012 | N = 102, paper-pencil | All reversed items were removed (n = 12) Statistical analysis; new items for the Lie Scale |
| Feb 2013– Aug 2014 | In-depth construct development and content validity research | The content validity was evaluated by a panel of 25 experts. Consequently, 40 items were excluded, and 27 items were re-worded New terminological clarifications were developed to operationalize the CQ construct better. Re-introduced reversed items, experimentally (13 items) <i>CQ-i v. 2014 beta version released (287 items: 257 items in Section 1, 30 items in Section 2)</i> “The Consciousness Quotient: Construct development and content validity research”—paper presented at PsiWorld 2014 conference CQ-i Administration on adolescents: Difficulty level assessment”—conference paper published in <i>Procedia - Social and Behavioral Sciences</i> , 128 |

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| Apr 2015– Oct 2016 | N = 632 Items analysis; extended validity and reliability research | Adjusting items based on feedback from online testing (N = 358) Statistical analysis, 14 items removed; testing new Lie Scale, four reversed items <i>CQ-i v. 2015 released (273 items; 243 items in Section 1, 30 items in Section 2)</i> |
| Jun–Aug 2016 | N = 1,312 | No more reversed items Six items removed from Section 1, 18 items removed from Section 2 Some small modifications to words in some items, for better comprehension; lie scale—four pairs; <i>CQ-i v. 2016 released (249 items; 237 items in Section 1, 12 items in Section 2)</i> Preliminary factor analysis showing the axis structure with many small dimensions; waiting for a larger sample |
| Mar 2017 | N = 1,568 | Statistical and psychometric analysis Data follows the same trend with many small factors; decision to continue gathering data. |
| 2018-2020 | N = 2,360 Normative sample = 2,266 | Exploratory factor analysis Reliability analysis CQ-i v. 2020 released, 268 items |

Note. CQ-i: Consciousness Quotient Inventory; APA: American Psychological Association; ITC: International Test Commission; ETS: Educational Testing Service.