Collaborave Problem-Solving in the Educaonal Context: The Role of Emoonal Intelligence

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The development of so skills, especially those required for collaborave problem-solving (CPS) and teamwork, is vital for both individual and societal progress in the contemporary world. Among other factors, CPS may be greatly facilitated by team members' ability to accurately perceive and understand, and effecvely manage emoons-in short, by their emoonal intelligence (EI) abilies. Therefore, the objecve of our study was to provide a systemac review of current empirical research on the effects of emoonal intelligence on CPS in the educaon context. The standardized literature search was conducted in March 2022 in three electronic databases: PsycINFO, PubMed, and World of Science. The review was performed according to the PRISMA 2020 guidelines, using the following inclusion/exclusion criteria: Study variables included at least one ability/skill from the domain of EI; the collaboraon involved a small group of peers and took place within an educaonal context (school, university); a scientically valid method was used to explore the possibility that EI affects the quality of CPS. Our final sample consisted of 40 publicaons, reporting the results of 43 single studies. Only two of these studies involved school- aged parcipants, as the vast majority of research has been conducted with university students. Also, experimental (n=8) and qualitave studies (n=7) were less represented, with the bulk of relevant research employing a correlational design (n=28). Studies involving experimental manipulaons (i.e., inducon, facilitaon, or training) of EI abilies were all conducted with university students. These studies confirm that enhancing EI abilies can directly or indirectly improve performance in CPS. All but one qualitave study focused on emoon regulaon skills, two of which were conducted in the school context. Overall, there is consistent and robust evidence that students' EI abilies contribute to beer team performance and posively affect relaonal aspects of CPS, most notably team cohesion, team trust and conflict resoluon, and moderate effects of other group variables. In parcular, EI abilies moderate the effects of team diversity on CPS by minimizing its negave and bolstering the posive effects. Studies focusing on how emoonal abilies affect individual-level outcomes in CPS are scarce, and the findings are less

consistent. Based solely on correlaonal evidence, some findings suggest EI abilies posively affect individual performance in CPS, while others report non-significant correlaons. It is important to note that the relaonship between EI abilies and CPS has been explored much more comprehensively in higher educaon compared to basic or secondary educaon. Apart from several qualitave studies with preadolescents, there are virtually no studies on the given topic with parcipants from the high-school populaon, though this might be the right age to focus on EI abilies and collaboraon skills. Even at the university level, students of business have been recruited as parcipants disproporonately more than students from other fields, which thus remain underrepresented. This imbalance calls upon future studies to recruit students from other domains, especially since the present findings demonstrate the general importance of EI abilies for CPS.

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