

Review

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Review

A Scoping Review of Burnout Avoidance by Employees During COVID-19 Through Achieving Psychological Flow

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Abstract: Background: Burnout is a significant problem for employees—particularly concerning COVID-19 and involving healthcare workers. One way for employees to avoid work-related burnout is to experience the psychological flow investigated by Csikszentmihalyi. Yet, COVID-19 may have contributed to the unattainability of psychological flow for burnout-prone employees. The objective is to determine the COVID-19 achievability of flow by employees and, if attained, whether flow resulted in burnout avoidance during the pandemic. **Method:** To examine the topic range of research, a scoping review includes searches of six primary databases (CINAHL, OVID, ProQuest, PubMed, Scopus, Web of Science), two searches of one supplementary database (Google Scholar), and one register (Cochrane COVID-19 register) of the keywords “burnout, COVID-19, employees, healthcare providers, psychological flow, Csikszentmihalyi”. Included are peer-reviewed, COVID-19-related, 2020-2025 journal publications. The exclusions are duplicates, non-COVID-19-related publications, reports lacking a research study, keywords, or relevant information. **Results:** In identifying 754 records, five records met the inclusion criteria. **Conclusions:** Psychological flow was possible during COVID-19 for various employee types, represents the opposite of burnout regarding a workplace stimulation scale, and attaining it permitted burnout avoidance, suggesting a focus on achieving flow in the workplace during pandemics would diminish the incidence of employee burnout.

Keywords: burnout; COVID-19; employees; healthcare providers; psychological flow; Csikszentmihalyi

1. Introduction

Described initially in 1974 [30], the current definition of burnout by the World Health Organization is as an occupation-dependent syndrome arising from unsuccessfully managed chronic workplace stress, with symptoms of reduced professional efficacy ranging from energy depletion or exhaustion to an increased work-related mental distance, negativism, or cynicism [1]. Considered specific to healthcare professionals initially [2]—representing a significant cause of healthcare professional turnover [3]—this syndrome can develop among all employee types [4], resulting in self-undermining behaviors such as poor communication, careless mistakes, and interpersonal conflicts [5]. Particularly in healthcare professionals, burnout is responsible for increased on-the-job errors and reduced patient care [6]. Burnout was prevalent in employees with high-pressure jobs [7] and widespread in healthcare professionals before COVID-19, with over one-half of physicians and one-third of nurses experiencing its symptoms in the US [8]. The ending of COVID-19 as a global health emergency on 5 May 2023 [9] marked more than three years of the pandemic that began [10] on 11 March 2020 [11]. Escalating burnout throughout the pandemic, COVID-19 represents the cause for increasing the complexity of finding solutions to burnout in all employees [12], especially healthcare professionals [13,14].

Psychological flow is a desired experience that extends a person's mind to its limits from a challenging and worthwhile voluntary effort to accomplish something valued such that a sense of time and place is lost [15]. It was first described [16] by Csikszentmihalyi in 1975 in a work examining flow in rock climbers, surgeons, composers, modern dancers, chess players, and basketball players [17] and was the focus of his research program until his 2021 death [18]. Pre-COVID-19, achieving flow in the workplace was recognized as an effective means to resist burnout [19]. That there is a direct relationship between the identification of burnout and the urge to find psychological flow in work is no coincidence—the two represent opposite extremes of employee stimulation [20].

The objective is to consider the achievability of psychological flow during the pandemic and, if realized, whether it retained the ability to avert burnout during COVID-19 in a manner that supports the direct connection between burnout and psychological flow attainment regarding a scale of workplace stimulation. A scoping review is the chosen methodology to achieve this. The choice of a scoping review on this topic is novel and provides insights into the type of effect COVID-19 had on the relationship between burnout and flow. The results demonstrate that achieving flow was possible during the pandemic by different types of employees and was realized in several ways—preventing burnout in each case. This result adds to the literature contrasting burnout with psychological flow regarding workplace stimulation regarding the effect of COVID-19.

2. Materials and Methods

The methods of gathering the materials follow the most recent preferred reporting item for systematic review and meta-analyses (PRISMA) guidelines for scoping reviews [21,22]. Internationally standardized [23], the PRISMA process for scoping reviews is considered the best practice guidance for scoping reviews [24]. The method includes a selection of databases and registers in searching the keywords, then removing records before screening duplicates, records not in English, those not from 2021-2025, not peer-reviewed, and not a research study. The records screened exclude those lacking Csikszentmihalyi, psychological flow, burnout, COVID-19, or employees/healthcare providers. If retrievable, no further consideration is given to reports of irrelevant information, making them ineligible. Following this process resulted in the studies included in the review—all of which represented the reports of the included studies.

The PRISMA flow of information diagram specific to scoping reviews represents the results of following this process. The most recent PRISMA template for scoping reviews [25] is the basis of the exclusion and inclusion criteria flow. The PRISMA Scoping Review Checklist is in Supplementary S1: Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews (PRISMA-ScR) Checklist outlining the entire process undertaken in this article beyond the scoping review itself. Preregistration for this scoping review is at <https://doi.org/10.17605/OSF.IO/ARN8P> (accessed on 8 March 2025).

The search selection of a scoping review is to investigate the range and depth of research on this subject. In contrast to examining PICO (population, intervention, comparison, and outcome) requiring a systematic review [26], this purpose represents a scoping review that searches six primary databases (CINAHL, OVID, ProQuest, PubMed, Scopus, and Web of Science), one supplementary database (Google Scholar)—searched in two ways—and one register (the Cochrane COVID-19 Register). Each was selected for relevance and reach [27]. The selection of these databases represents those most relevant to burnout-related topics and those likely to produce the broadest reach [27]. The common keywords searched are “burnout, COVID-19, employees, healthcare providers, psychological flow, Csikszentmihalyi” for each database. Each database had particular limitations to the search to achieve the necessary goal. The details of these eliminations are in Supplementary S2 under the specific search.

Following PRISMA guidelines [23,24,28], Supplementary S2 notes all keywords beyond the initial ones. Excluded are reports of irrelevant information on any keywords (including those with keywords in the references alone). Following the PRISMA reporting process, the flow diagram does not reveal the details of the individual searches. Yet, this information is significant and is in

Supplementary S2. Including this supplementary file represents counteracting the cognitive bias of one scholar completing the scoping review [29,30]. Selection bias is irrelevant [31,32] as this is a scoping review rather than a PRISMA systematic review and meta-analysis.

A 2019 study of twelve academic databases that found it the most comprehensive search engine [33], additionally reconfirmed with 2023 research [34], was the basis for selecting Google Scholar as a search engine database. It is a supplementary database from the judgment of 2020 [27] research that evaluated it as unsuitable for primary review searches based on its delivery of inconsistent results and lack of Boolean search options. Yet, the same 2020 review acknowledges Google Scholar as the most comprehensive and used database by academics. As a scoping review, comprehensiveness is key. Consequently, the reach of Google Scholar as a database is significant to the intended purpose of the undertaking.

Google Scholar was alone in being searched twice, with the keywords listed differently for each search. The parameters for Google Scholar A were [Burnout psychological flow Csikszentmihalyi employees OR healthcare providers "COVID 19" since 2021]. For Google Scholar B, they were ["burnout" "psychological flow" "Csikszentmihalyi" employees OR healthcare providers "COVID 19" since 2021]. Both searches were retained as their results differed (see Supplementary S2).

All searches were performed on 8 February 2025 by the author.

3. Results

3.1. Search Process Results

There were 754 results from the six primary databases, one register, and the one supplementary database searched twice, with OVID returning none. Regarding the searches, the least accurate for this topic are CINAHL and Web of Science. For the CINAHL search, 116 of the 121 results did not mention Csikszentmihalyi, although a keyword in the search process and the initial return for this database was relatively substantial. With Web of Science, the lack of returns regarding Csikszentmihalyi was additionally considerable—216 of the 258 results. What is unique regarding the Web of Science review is that a consequential number of returns could not be retrieved—25. ProQuest had a similar problem to these databases regarding search accuracy, with 28 of the returns lacking Csikszentmihalyi. However, the difference is that the initial returns were fewer, at 37. The Cochrane COVID-19 Study Register produced only three results—two were duplicates, and one lacked mention of Csikszentmihalyi.

Twice-searched Google Scholar tested the difference between searching with quotation marks on only "COVID-19" (Google Scholar A) and differentiating all the keywords with quotation marks (Google Scholar B). Of the 25 returns in Google Scholar B, 18 are duplicates with Google Scholar A. Seven are distinct. Still, the result is that these that differ from Google Scholar A are not peer-reviewed—one does not mention Csikszentmihalyi. The final materials of this scoping review are five returns from the Google Scholar A search, demonstrating the value of Google Scholar as a search engine for this topic. A decision to avoid using Google Scholar resulting from its view as a supplementary database [27] would have resulted in no relevant returns for this topic. Google Scholar B duplicates the first return of Google Scholar A. No other duplicates of the final Google Scholar A reports are with other database searches.

The process following the PRISMA guidelines for scoping reviews is in Figure 1.

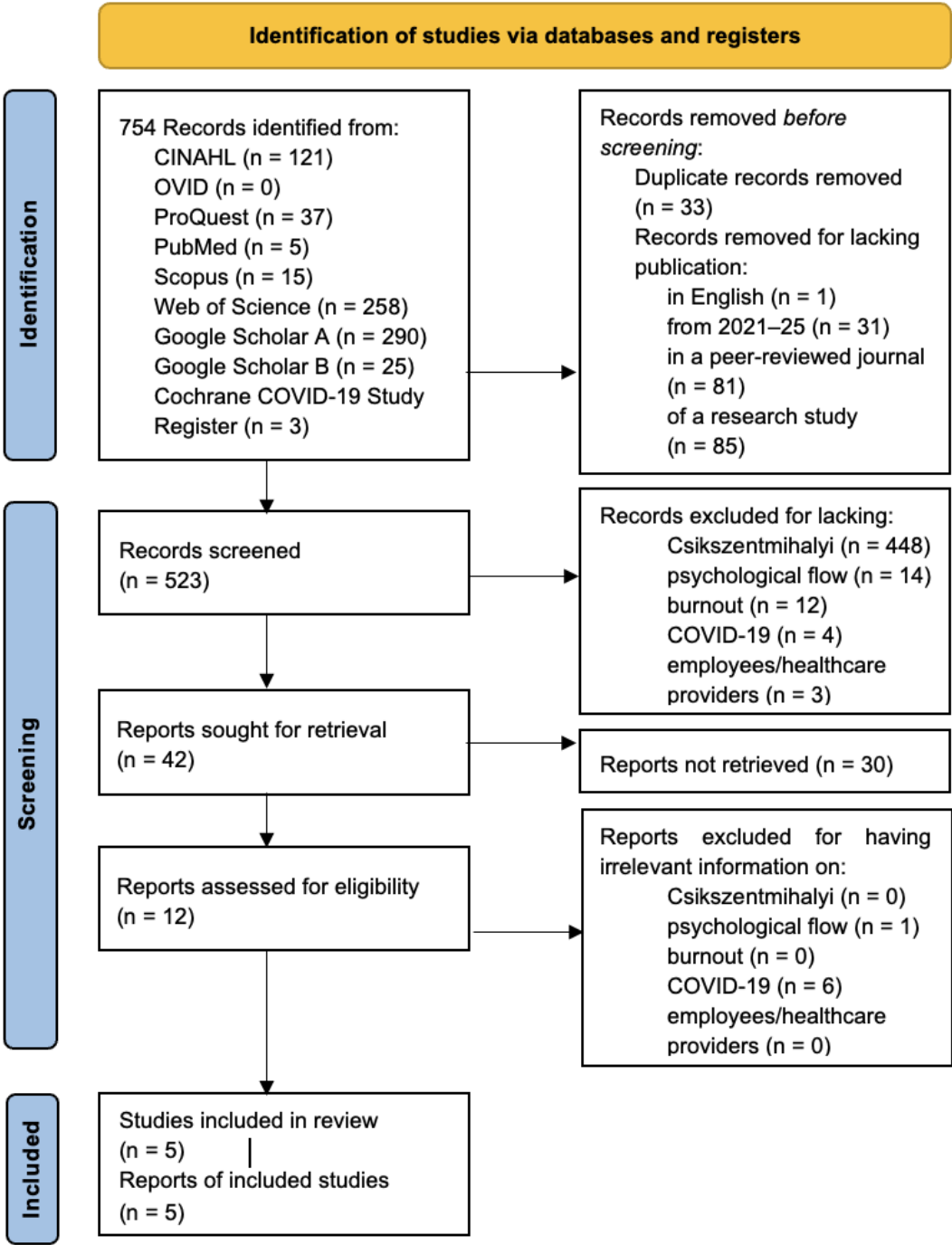


Figure 1. Source: [22]. The license of this work is under CC BY 4.0. To view a copy of this license, visit <https://creativecommons.org/licenses/by/4.0/>.

This process neglects the details of the exclusions by database, combining all results by the second stage of removing records before screening. Consequently, to improve the transparency of the process, Table 1 provides the details of the exclusions for all searches. The total exclusions are 749. The row of duplicates in Table 1 has two results in round brackets for PubMed (4) and Google Scholar A (27). These are the total duplicates. However, the recorded duplicates for each are 2 and 0, as the duplicates of these searches are those not removed before screening. For the complete account of each search process, see Supplementary S2.

Table 1. Details of the PRISMA Scoping Review Process Exclusions with the Results for the OVID Search (n = 0).

Exclusion reason	CINAHL	ProQuest	PubMed	Scopus	Web of Science	Google Scholar A	Google Scholar B	Cochrane COVID-19	Total excluded
Duplicates	1	0	(4) 2	9	1	(27) 0	18	2	33
Not English	0	0	0	0	0	0	1	0	1
Not 2021-2025	0	0	0	0	0	31	0	0	31
Not peer-reviewed	0	1	0	0	0	74	6	0	81
No research study	1	7	0	2	16	59	0	0	85
No Csikszentmihalyi	116	28	3	1	216	83	1	1	448
No psychological flow	0	0	0	2	0	12	0	0	14
No burnout	0	0	0	1	0	11	0	0	12
No COVID-19	0	0	0	0	0	4	0	0	4
No employees or healthcare providers	0	0	0	0	0	3	0	0	3
Not retrieved	3	1	0	0	25	1	0	0	30
Irrelevant flow	0	0	0	0	0	1	0	0	1
Irrelevant COVID-19	0	0	0	0	0	6	0	0	5
Total results	121	37	5	15	258	285	25	3	749

3.2. Reports of Included Studies

Of the 29 pages representing the results returned from the Google Scholar A search, all six reports of included studies are in the first 11 pages. The first return was on page 1—the only duplicate with Google Scholar B of the reports included—“Psychological flow and mental immunity as predictors of job performance for mental health care practitioners during COVID-19” [35]. The second of the returns was on page 3, “Building Nurse Resilience Through Art Therapy and Narrative Medicine Integration” [36]. Page 5 saw the return of the third report, “Are algorithmically controlled gig workers deeply burned out? An empirical study on employee work engagement” [37]. The fourth report returned on page 7, “Positive Coping and Well-being of Corporate Professionals during the Covid-19 Pandemic: A Single Case Study” [38]. The final report is the fifth return on page 11 [39]. Of these reports, the publication of the oldest was in 2022, and the most recent publication is from 2025. Initially, the consideration was that burnout represented symptoms associated with healthcare providers [2]. Therefore, it is significant that the top three returns are three types of healthcare providers, with mental healthcare practitioners viewed as working under conditions most likely to produce burnout [40]. The last three are workers in high-pressure occupations with significant burnout—either resulting from job demands or from mixing employment with parenthood [41–43] (see Table 2).

Table 2. Citation number, publication title, publication year, and category of subjects for reports of included studies.

Cit. #	Page #	Title	Year	Subjects
[35]	1	Psychological flow and mental immunity as predictors of job performance for mental health care practitioners during COVID-19	2024	Mental health care practitioners

[36]	3	Building Nurse Resilience Through Art Therapy and Narrative Medicine Integration	2025	Nurses
[37]	5	Are algorithmically controlled gig workers deeply burned out? An empirical study on employee work engagement	2023	Gig workers
[38]	7	Positive Coping and Well-being of Corporate Professionals during the Covid-19 Pandemic: A Single Case Study	2022	Corporate professionals
[39]	11	The COVID-19 pandemic's effect on family leisure activities of working parents with pre-school aged children	2024	Working parents

Each of the five included reports had multiple authors, were regarding studies in four different countries (and one conducted worldwide), published in various journals, and used a different methodology for the study reported (see Table 3).

Table 3. Citation #, publication authors, country of study, journal, and study methodology.

Cit. #	Authors	Country	Journal	Methodology
[35]	Al Eid, N.A.; Arnout, B.A.; Al-Qahtani, T.A.; Farhan, N.D.; Al Madawi, A.M.	Saudi Arabia	<i>PLoS ONE</i>	Correlational survey design
[36]	Choe, N.S.; Yelle, M.	United States	<i>Art Therapy</i>	Mixed methods
[37]	Lang, J.J.; Yang, L.F.; Cheng, C.; Cheng, X.Y.; Chen, F.Y.	China	<i>BMC Psychology</i>	Quantitative questionnaire analysis
[38]	George, E.S.; Antony, J.M.; Wesley, M.S.	Worldwide	<i>Journal of Positive School Psychology</i>	Phenomenological research study
[39]	Perold, I.; Knott, B.; Young, C.	South Africa	<i>World Leisure Journal</i>	Exploratory case study design

The report of the relevant study results found for each record is in Table 4.

Table 4. Citation #, report of relevant results for each included study.

Cit. #	Relevant Results
[35]	Psychological flow significantly influenced the job performance of mental health care practitioners during COVID-19, indicating the importance of planning interventions to enhance mental health care practitioners’ psychological flow to help them cope with work stress effectively and protect them from symptoms of burnout.
[36]	Examining the feasibility of integrating art prompts into a narrative medicine protocol to enhance nurse resilience during COVID-19 found, corresponding with previous research, that regardless of the art medium, 15 minutes was sufficient to induce a state similar to flow and strengthen group cohesion.
[37]	Gig workers believed that perceived algorithmic control positively affects employee work engagement. Burnout played a partial mediating role in the relationship between perceived algorithmic control and employee work engagement. Flow experience played a moderating role through the indirect effect of burnout on employees’ work engagement.
[38]	Corporate professionals faced with COVID-19 work-related challenges adapted positive coping strategies, including their capacity for flow to avert burnout.
[39]	Participants experienced higher emotional and tiredness levels because of the pandemic-induced changes, often neglecting their balance of work, life, and care for their preschool-aged children. Parents experiencing joy in their leisure activities are those most likely to experience flow.

In “Psychological flow and mental immunity as predictors of job performance for mental health care practitioners during COVID-19” [35], the claim is that psychological flow is a form of mental immunity to burnout, similar to biological immunity. This assertion arises from its ability to encourage professional development by creating “psychological capital” that motivates feelings of well-being, increasing productivity compared with individuals who do not exhibit psychological

flow. The decision to test this supposition was a cross-sectional descriptive design study from 7 March 2022 to 28 August 2022, during the COVID-19 pandemic, to predict the job performance, mental immunity, and psychological flow of health mental care providers. The selection for the survey was a random sample of 145 Saudi mental health professionals, 120 of whom returned the questionnaire—64 men and 56 women, aged between 27 and 48. Psychological flow and mental immunity were statistically significant predictors of job performance among mental health care practitioners. The recommendation is for interventions to enhance the psychological flow, mental immunity, and job performance of mental health care practitioners to promote effective coping with work stress and protect them from symptoms of burnout.

“Building Nurse Resilience Through Art Therapy and Narrative Medicine Integration” [36] presents a qualitatively focused mixed-methods study to develop a narrative medicine protocol for enhancing nurse resilience through the integration of art prompts respecting the Expressive Therapies Continuum (ETC) model. During the pandemic in 2022, nine participants across two cohorts completed a 4-week asynchronous online workshop. Quantitative results showed no statistically significant changes; however, the feasibility and practical benefits of the intervention were evident with the 15-minute art prompt through fostering positive emotions, sensory engagement, and meaning-making, aligning with the PERMA model [44,45]. The conclusion is that existing narrative medicine programs in healthcare institutions can incorporate art prompts to promote healthcare worker resilience regarding burnout.

The study of the ability of psychological flow to avert burnout during COVID in “Are algorithmically controlled gig workers deeply burned out? An empirical study on employee work engagement” [37], was regarding the survey results from two provinces in China of 400 gig workers at several digital platform companies. Two-thirds of the respondents were men, while a third were women, with the highest percentage of respondents being between 20 and 30 years old. Over three quarters had at least one higher education degree and were full-time employees. The ability of the workers to recognize and evaluate algorithmic control in human-computer interaction fundamentally influenced the attitude and behavior of gig workers during COVID-19. Different gig workers had distinct perceptions and understandings about algorithmic control, affecting their responses accordingly. The authors note that control over data algorithms intensified following COVID-19. The result was a moderating effect of flow experience on the positive relationship between perceived algorithmic control and burnout. Psychological flow experience was a significant antecedent variable of employee work engagement during the pandemic.

Corporate professionals are the focus of “Positive Coping and Well-being of Corporate Professionals during the Covid-19 Pandemic: A Single Case Study” [38] with the aim of the study understanding how the positive coping strategies used by corporate professionals during the COVID-19 pandemic influenced their well-being. From a group of 20 corporate professionals interviewed worldwide, one engaged in a phenomenological research study. Flow was among the human strengths mentioned as relevant to averting burnout during the pandemic regarding the PERMA model of well-being that focuses on individual strengths. Although COVID-19 was challenging for the corporate professional, in being able to meet the challenge successfully, there was obtainment of the type of enjoyment that comes with achieving psychological flow—this enjoyment extended to increased quality family time. The advice is that the methods and thinking patterns used by corporate professionals might be adopted successfully in other fields to produce positive outcomes.

The concern of “The COVID-19 pandemic's effect on family leisure activities of working parents with pre-school aged children” [39] was also family time. A self-administered questionnaire collected the views of 140 South African working parents with preschool-aged children regarding their leisure activities and changes to these activities that affected work-life balance and overall well-being of parents. Pre-COVID-19, parents indicated that they had personal leisure time available. During the initial lockdown of the pandemic, while confined to their homes and because of the blurred boundaries between work, leisure, caring, and household duties, they experienced negative emotions

and tiredness, i.e., emotional burnout. However, as the pandemic continued, there was a shift in family leisure activities, permitting newly embraced leisure activities to reshape family leisure choices and options. The authors indicate that psychological flow illustrates the type of deep engagement parents described regarding these new activities, driven by intrinsic joy with an alignment between challenges and abilities. The study raises awareness regarding the significance of work-life balance during pandemic situations, as recognizing the role of leisure activities for parents of preschool-aged children in promoting psychological flow can avert burnout.

4. Conclusions

The results of this scoping review of burnout avoidance by employees during COVID-19 through achieving psychological flow were various.

Google Scholar alone identified relevant peer-reviewed articles for this assessment and did so most effectively by isolating the search terms least, questioning the belief that this search engine is merely supplementary.

The included articles demonstrate that psychological flow was achievable by several types of employees during the pandemic, experiencing flow, averting burnout, and the achievement of flow differed.

For mental health practitioners, flow was attained during COVID-19 directly through their particular relationship to work. Nurses experienced flow in art therapy sessions specifically offered in response to COVID-19. Gig workers experienced a direct relationship between perceived algorithmic control and burnout, with psychological flow significantly variable concerning employee work engagement during the pandemic. Corporate professions, though initially experiencing burnout during the pandemic, were able to challenge themselves using the peak of their skills to produce the level of enjoyment resulting in flow. One of the areas in which they experienced flow was leisure pursuits. The study of preschool-aged parents reinforced the value of peak experiences in leisure activities to avert workplace burnout.

Together, these five included reports—identified using the PRISMA process for scoping reviews—reinforce that psychological flow represents the opposite of burnout regarding a workplace stimulation scale. Furthermore, if an employee experiences psychological flow, they cannot simultaneously suffer from burnout. To further test that psychological flow and burnout are mutually exclusive, especially in pandemic situations, the suggestion is for future research. Psychological flow was possible during COVID-19 for various employee types, and attaining it permitted burnout avoidance, suggesting a focus on achieving flow in the workplace during pandemics would diminish the incidence of employee burnout.

Supplementary Materials: The following supporting information can be downloaded at: www.mdpi.com/xxx/s1, Supplementary S1: Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews (PRISMA-ScR) Checklist; Supplementary S2: Nine Database Searches.

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