

¹Mr.GURUMOORTHY.G,²Ms.SINDHU P VINCENT

(1. M.B.A. Aviation Management, II Year, School of Management, Hindustan Institute of Technology & Science, Padur, Chennai

2. Assistant Professor, School of Management, Hindustan Institute of Technology & Science, Padur, Chennai

ABSTRACT

The airline sector plays a significant role in connecting people and locations all over theworld. Nonetheless, the special demands placed on aircraft cabin crew workers can causeheavy stress and exhaustion. This essay tries to review the literature on the stress andexhaustion experienced by Indian airline crew members. A thorough search of electronicdatabases, such as PubMed, Scopus, and Google Scholar, is used to find papers that werepublished between 2010 and 2021 for the literature review. "Airline cabin staff," "fatigue,""stress," and "India" were the search terms utilized . 20 items altogether made up the review. According to the findings, Indian airline crew members experience high levels of stress andexhaustion as a result of a variety of issues, including extended working hours, erraticscheduling, insufficient rest times, and exposure to several time zones. The study alsodiscovered that compared to those who work on domestic flights, cabin crew members whoworkon foreign flightshavehigher levels ofstress and weariness.

The analysis also showed that India's airline industry lacks adequate rules and regulationsgoverningtheworkinghoursanddowntimeforcabincrewemployees.Becauseofthis,cabincre w members have not had enough time to relax and recover, which has exacerbated theirlevels of exhaustion and stress. This analysis emphasizes the need for additional study tocomprehend the factors that lead to weariness and stress among Indian airline cabin staff. Italso implies that the aviation sector should take action to put in place suitable rules andregulationstoguaranteethesecurity andwellbeingof cabincrew employees.

Keywords: airline, flight attendant, shift job, exhaustion, sleepiness, mentalhealth, safety.

1. INTRODUCTION

In India, it is common for airline cabin crew employees to work lengthy shifts with littledowntime, whichcan cause exhaustion and stress. Since they might make a crew memberless able to carry out their responsibilities safely and effectively, fatigue and stress are majorissues in the aviation sector. In a stressful and demanding atmosphere, it can be difficult forcabin crew members to ensure the safety and comfort of passengers. With an increase in airtravel, India's aviation sector has expanded significantly in Airlines recent years. are underpressuretoincreaseflightcapacity and shorten turnaround times as a result of this expansion. So, cabin crew employees frequently have to work longer shifts with fewer breaks and haveless downtime. Cabin crew personnel are under additional stress as a result of the COVID-19epidemic since they must now follow stringent safety guidelines in addition to carrying outtheir regular responsibilities. Increased exhaustion stress and may result from the worry ofgettingtheillness and the additional duties of puttings a fety precaution sinplace.

Overall, in order to ensure secure and effective operations, the Indian aviation sector mustplace a high priority on the health of its cabin crew. This can be done by putting in placepolicies like sufficient rest and break periods, better working conditions, and trainingprogrammes to assist crew members in managing stress and exhaustion. Insuring thepassengers' safety, comfort, and wellbeing while they are in flight is a crucial responsibility of the airline cabin crew. But the long hours, unpredictable schedules, and exposure to avariety of physical and psychological stressors that come with their profession can makethem tired and stressed out. These problems may have a significant effect the crew'sperformance,safety,andgeneralwellon being, as well as the level of customerservice offered. The demand for aircraft cabin crew has increased as a result of the substantial rise India's aviation sector has seen in recent years. There isn't much research on the particular problems of weariness and stress, despite a rising understanding of the significance of resolving the difficulties experienced by Indian cabin crew. The purpose of this study is to examine thetypes and levels of stress and exhaustion that airline workers in India face, as well as how these factors affect their performance, safety, and overall health. Using both quantitative and qualitative data gathering and analysis techniques, the study will take a mixed-methods approach.

The research will get started by performing a thorough evaluation of the literature on stressand exhaustion in airline cabin crew, with an emphasis on international patterns and the bestmethods for dealing with these problems. This evaluation will help with the creation of asurvey questionnaire to collect quantitative information from Indian airline cabin personnel.Work hours, workload, sleep quality, exhaustion, stress, and coping techniques will all becovered in the survey. In-depth interviews with a sample of airline cabin crew will beconducted aspart of the researchinadditionto the surveytocollectqualitative information on their experiences with stress and exhaustion. In-depth questions will be asked on theparticular stressors that Indian cabin crew members must deal with, how these affect theirphysical and mental health, and how they cope. The research's conclusions will shed light ontheparticular problems and procedures for resolving these concerns. Thestudy's suggestions will guide the creation of research-based interventions to boost the health, safety, and well-being of airline employees in India, ultimately helping to improve the overall performance and safety of theaviation sector.

In this case, before it is too late, he should be able to realize whether the source of this is individual or organizational and should determine the style of struggle accordingly. Personswho want to be a cockpit and cabin crew should set attainable and realistic targets byknowing the working conditions and hours, the wages, communication skills and abilities with people well. Otherwise, they may experience burnout to the extent that their sense of personal accomplishment decreases. Employees who are in face-to-face relationships with people in a busy working tempo are often exposed to emotional exhaustion, so it may bebeneficial for them to get away from this environment physically for a while, in a way, toisolate themselves and rest.

This paper aims to examine the critical fatigue risk factors that affect the performance and safety of airline pilots and crew in aviation industry. This paper also analyses the relationshipbetween burnout and job satisfaction sub-dimensions of cockpit and cabin crews working inairline companies, which carries passengers on domestic and international lines. This paperprovides benefits for academics. employees and businesses. and offering suggestions toairlinecompanymanagersandcabincrewsarethetargetedsubgoals. This research was carriedoutbyadoptinga"positivist"approach, withan "instant" method interms of the time it covers and a "descriptive" method in terms of its purpose. The "survey" method was used to obtain the data. The target population of the research is the cockpit and cabin crews of thescheduled and non-scheduled airlines operating in the Turkish civil aviation sector. For thereasons stated under the scope and

limitations of the research, the cockpit and cabinattendants of the airline companies that are not named as the research sample, but thatperform scheduled and non-scheduled domestic and international passenger transportationflights. Although the number of cockpit and cabin attendants working in the companies, 109people answered the questionnaire. A total of 15 questions consisting of the job satisfactionquestionnaire, Fatigue and stress, burnout questionnaire and demographic informationquestionswereapplied to the cockpit and cabin crews forming the sample.

Thispaperorganized as follows: Following the introduction part, a literature review has been developed based on theoretical and empirical background. In the following part, informationrelatedtodata, datacollectionprocessandanalysisunderresearch and methodology. Following the results and findings section, this paper concludes with limitations and futureresearchdirections.

2. RESEARCHREVIEW

Society is struggling with stress at homes and workplaces. No one can avoid stress and allindividualsneedsomeintheirroutines.Stressisabroadconceptthatcanrefertooccasionsor more enduring characteristics of the environment, a person's reaction to these events orenduring characteristics, and the impact between the person and the environment (Sonnentag, 2018). referring to stress as the internal condition of a person who experiences break downdue to pressure and anxiety thereby causing a condition endangering the health of a normal person. The first person who created and defined stress as something that endangers life and causes psychological changes was (1950) who created and conceptualized the theory ofgeneral adaptation syndrome (GAS) as a common pattern of somatic responses to noxioussituations and the physiological literature provides a consistent picture of twoneural/hormonal systems responding to threat: a pituitary/adrenal cortex system and asympathetic/adrenomedullary system that organize the body's response in fight-or-flightsituations (Dismukes, Kochan& Goldsmith, 2018; Selye, 1956; Melancon, 2014). Selye(1956) discoveredstresstobea commonreactionandresponsetoanydemandwhichis on the body. Stress is a response to threatening situations that involves biological, cognitive, behavioral, and emotional components. History of the term "stress" shows that it firstappeared in writing in the 14th century as a way to show variety strain (Lazarus or &Folkman, 1984). The definitions and nature of stress changed the study of stress responses for Lazarus and Folkman (1984), the response is dealing and adaptation through differenttherapies and behavioral changes.

There are several types of stress and the most important one is occupational stress. Studies shows that the job stress will be created when there is incongruence between the demands of the workplace and the ability of a person or imbalanced between the demands of the workenvironment and his or her resources (Walter, 2009;

Irving, 2017; Trybou, Germonpre, Janssens, Casini, Braeckman, Bacquer& Clays, 2014). Studies of job stress among mentalhealthprofessionalshaveshownthatdifferentassociated with jobstress are frequently related to job design, Stressors include "the work-related causes of or inputs to job stress" (Cosio,Olson, & Francis, 2010): such overall conflict, high iob demands as workload, role roleambiguityandconfusion,andsupervision,HighjobdemandsareoftenconceptualizedAs challengestressorsandcomprisestressorssuchasahighworkloadortimepressure(Walter, 2009; Menard & Arter, 2013).

Two notable reasons, long work hours or high physical demands fall into this category. Hindrances refer to stressful factors that are threatening and impede task accomplishmentsuch as role ambiguity, role conflict, or organizational constraints Because of its threateningnature, job insecurity can also be noticed as a hindrance stressor (Shoss, 2017; Cosio, Olson, & Francis, 2010) occupational stress factors in the social environment comprise workplacediscrimination, harassment, or destructive leadership may create burnout, exhaustion, sleepdisorders, alcoholism, relationship concerns, and posttraumatic stress disorder (Theorell, 2014; Irving, 2017). Flight crew is one of the jobs which is highly struggling with the different kinds of the factors that Hanson, 2019). And the have cause stress (stress can anegativeeffectontheflightcrewandtheirproductivity. However, many researcheshavebeen done in respect of job stress of the flight crew such as: Kilic, Ucler (2019) Resultsshowed that the most important criterion in stress among ab- initio pilots is personal factors, followed by organizational factors and environmental factors. Furthermore, the results revealed that the first four stressors within the global ranking were determined as the lack inbody of knowledge, meteorological conditions, personality, and facilities and the fleet with the weights. Another research has been done by Omholt, Tveito, Ihlebæk (2017) in the research reported high numbers of SHCs and high levels of work-related stress wereassociated with high numbers of SHC. More knowledge is needed on the physical, organizational and psychosocial stressors affecting cockpit and cabincrewin order to create a healthier work environmentfor these groups.

Furthermore, Hassani (2006) showed that there were differences between employees ineventful and eventless branches. In another study entitled "the pathology of the reasons for the job stress of air traffic control employees", Rouhollahi and Ahadi Motlagh (2014) developed a conceptual model. Moreover, in a study, Maymand, Shakhsian and Hosseiny (2012) demonstrated that stress gave rise to emotional, physiological, and environmental problems and influenced performance levels. However, from the perspective of the

currentstudy, their research did not address stress-related reactions. Therefore, this study examinesjob stress reaction. Hence, adding up the above researches, it can be said that many of thesestudies attended to the relationship of job stress to other variables, including general health, job performance, personal efficiency and mental health, job satisfaction, and flightperformance, or they measured the rate of job stress in the different branches of airwaycompanies. Thus, further investigations are required on the job stress resources of the flightcrew because the obligations of flight crew and its nature are different from other jobs, andthus, its essence, fields, and stressful factors are different. Since the social, economic, andcultural conditions of every country is unique and varying; moreover, every airway companyfaces certain conditions and requirements, it enjoys different nature job and stress resources.Ontheotherhand,thejobstressnatureofMahanAirCompany'sflightcrewis specifictothesame organization, and a major part of it is unknown. Therefore, with respect to the presence of a gap concerning the recognition of the job stress nature resources of flight crews, it wasnecessaryto deeplyand specifically investigatetheseresources.

3. RESEARCHMETHODOLOGY

The Primary data for the research was collected by using a questionnaire circulated online. The sampling technique applied was both convenience sampling and snowball samplingtechnique. Although the number of cockpitand cabinatten dants working in the companies,

109 people who worked in Chennai airport, Port Blair Airport, Bengaluru Airport answeredthe questionnaire. A total of 15 questions consisting of the job satisfaction questionnaire, Fatigue and stress, burnout questionnaire and demographic information questions wereapplied to the cockpitand cabin crews forming the sample.

4. ANALYSIS AND INTERPRETATIONS

4.1 CHI-SQUARETESTS

	Value	df	Asymp.Sig.(2-sided)
PearsonChi-Square	65.336ª	16	.000

LikelihoodRatio	69.204	16	.000
Linear-by-Linear	29.921	1	.000
Association	27.721	1	.000
NofValidCases	109		

a.16cells (64.0%) have expected countless than 5. The minimum expected countis. 08.

Theabove tablefindsthep-valueto be less than 0.05 afterchisquare test.

Inference

According to the provided output, a 2x2 contingency table containing 109 valid casesunderwentachisquaretestofindependence.With16degreesoffreedomandavalueof65.336, the Pearson chi-square test statistic has a.000 asymptotic significance threshold.With 16 degrees of freedom and a p-value of.000, the likelihood ratio test statistic has avalueof 69.204.

Thesefindingsimplythatthetwovariablesinthecontingencytablesignificantlyrelatetoone another. With a test statistic of 29.921 and 1 degree of freedom, as well as a p-valueof.000, the linear-by-linear association test, which looks for a trend in the connectionbetweenthevariables,likewiseproduced as ignificant result.

Haveyoueverexperiencedfatigueorexhaustionwhileonduty?

		Frequency	Percent	ValidP ercent	Cumulativ ePercent
Valid	YES	75	68.8	68.8	68.8
	NO	34	31.2	31.2	100.0
	Total	109	100.0	100.0	

Inference

This looks like a frequency table of answers to a survey question with a binary (yes/no) responseoption. A total of 109 people responded, and of those, 75 (68.8%) said "YES" and 34 (31.2%) said"NO."Thecumulative percent shows the proportion of respondent sine achcategory up to that point, with 68. 8% of respondents selecting "YES" and 100% of respondents being included in the table.

Haveyoueverexperiencedstressor anxietywhile onduty?

		Frequency	Percent	ValidPercent	CumulativePercent
Valid	YES	78	71.6	71.6	71.6
	NO	31	28.4	28.4	100.0
	Total	109	100.0	100.0	

Inference

This seems to be a summary of a survey or

questionnaireresponsewhereparticipantswereaskedtoindicatewhethertheyselected"YES" or "NO" as their response to a particular question.

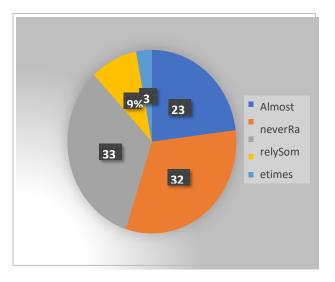
There were 109 total responders, 78 of whom gave "YES" responses (71.6%), and 31 gave "NO"responses(28.4%). The cumulative percentinthe datashows the proportion of respondents up to that time.

It'scrucial torememberthatit'schallengingto make

 $any additional inferences without understanding the survey's question \ or \ context.$

AGI		Frequency	Percent	ValidPercent	CumulativePercen t
1.	18-25	25	22.9	22.9	22.9
2.	26-30	35	32.1	32.1	55.0
3.	31-35	36	33.0	33.0	88.1
4.	36-45	10	9.2	9.2	97.2
5.	46+	3	2.8	2.8	97.2
	Total	109	100.0	100.0	100.0

Howoftendoyouexperiencestressduringatypicalworkweek?



INFERENCE

The sample size is 109, and the age group with the highest frequency is 31-35, with 36 respondents, which is 33% of the sample. The age group with the lowest frequency is 46+, with only 3 respondents, which is 2.8% of the sample.

The cumulative percentage column shows the percentage of respondents ineach age group and all previous age groups. For example, the cumulative percentage for the age group 31-35 is 88.1%, which

means that 88.1% of the respondents are aged 35 or below. Overall, the data indicates that the majority of the sample population falls within the agerange of 26-35.

				Cumulative
AGE	Frequency	Percent	ValidPercent	Percent
18-25	34	31.2	31.2	31.2
26-30	38	34.9	34.9	66.1
31-35	21	19.3	19.3	85.3
36-45	8	7.3	7.3	92.7
46+	8	7.3	7.3	100.0
Total	109	100.0	100.0	

How does the airline company support you in managing fatigue and stress atwork?



INFERENCE

Basedon the giventable, we cansee that the data is related to the frequency distribution of age groups among a sample of 109 individuals. The table shows that:

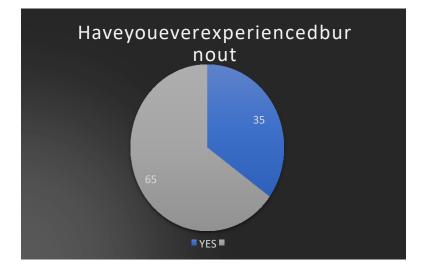
- Theagegroup of 26-30 is the most frequent, with 38 individuals (34.9% of the sample).
- The age group of 18-25 is the second most frequent, with 34 individuals(31.2% of the sample).
- Theagegroup of 31-35 has 21 individuals (19.3% of the sample).

- Theagegroup of 36-45 has 8 individuals (7.3% of the sample).
- The age group of 46 and above also has 8 individuals (7.3% of the sample).

We can also observe that the cumulative percent indicates the percentage of individuals in thesamplewhofallwithineachagegrouporyounger.For instance,66.1% of the sampleis aged30 and34.9% aged26-30), oryounger(31.2% aged18-25 and 85.3% of the sampleis aged 35 oryounger(31.2% aged 18-25, 34.9% aged26-30, and19.3% aged31-35).

Haveyoueverexperiencedburnoutasacabincrewmember?

		Frequency	Percent	ValidPercent	CumulativePercent
Valid	YES	38	34.9	34.9	34.9
	NO	71	65.1	65.1	100.0
	Total	109	100.0	100.0	



Thisisafrequencytablepresentingthedistribution of responsestoa certain question with two possible answers: "YES" and "NO".

Therewereatotal of109respondents,ofwhich38(34.9%)answered"YES"and71(65.1%)answered "NO".

The valid percent refers to the percentage of respondents who provided a validresponse, which in this case was either "YES" or "NO". The cumulative Eur. Chem. Bull. 2023, 12(Special Issue 8),3598-3619 3609 percentindicates the running total of valid percentages up to a particular point.

4.2 ANOVA

Model		Sum ofSquar es	df	Mean Square	F	Sig.
1	Regression	.877	1	.877	1.541	.217 ^b
	Residual	60.921	107	.569		
	Total	61.798	108			

DependentVariable:Doyoufeelthatyouremployerprovides

adequatesupportforyourmentaland physicalhealth?

Predictors:(Constant),How does the airline company support you in managing fatigue and stress at work?(Select all that apply)

INFERENCE

Thetableprovided appears to be an ANOVA tables howing the results of a regression analysis with one predictor variable.

The "SumofSquares" columnshows the total sum of squares, which is the squared deviations of the dependent variable from its mean. The table is divided into two main parts: the "Regression" part and the "Residual" part.

The "Regression" part of the table shows the sum of squares, degrees offreedom, mean square, F-value, and significance level for the regressionmodel. The sum of squares for regression represents the variation in thedependent variable that is explained by the predictor variable. The degrees of freedom for regression are 1, since there is one predictor variable. Themeansquare for regression is the sum of squares for regression divided by the grees of freedom. The F-value tests the null hypothesis that theregression coefficient is zero. The significance level (also known as p-value) Eur. Chem. Bull. 2023, 12(Special Issue 8),3598-3619 3610

indicates the probability of observing an F-value as extreme as theone obtained, assuming the null hypothesis is true. In this case, the p-value s.217, which is greater than the conventional threshold of .05, indicating that the null hypothesis cannot be rejected at this level of significance.

The "Residual" part of the table shows the sum of squares, degrees offreedom, and mean square for the residuals (unexplained variation in thedependent variable). The degrees of freedom for residuals are the totalsamplesizeminusthe numberof predictor variables, which inthiscase is 107. The means quare for residuals is the sum of squares for residuals divided by their degrees of freedom.

Finally, the "Total" degrees row shows the total of squares, sum offreedom, and means quare for the entire model.The totalsumof squares is the sum of squares for regression and residuals. The degrees of freedom for total are the total sample size minus 1, and the mean square for total isthetotalsumof squaresdividedbyits degreesoffreedom.

Overall, the ANOVA table provides information about how well thepredictor variable explains the variation in the dependent variable. In thiscase, the predictor variable does not appear to be statistically significant inexplaining the variation in the dependent variable, as the p-value is greaterthan .05.

	Unstandardized Coefficients		Standardized Coefficients		
Model	В	Std.Error	Beta	t	Sig.
1	2.068	.155		13.318	.000
How doestheairline companysupport you inmanaging fatigueandstressat work?(Selectalltha	.076	.061	.119	1.241	.217

4.3 COEFFICIENTS

t apply)			

a.Dependent Variable: Do you feel that your employer provides adequate supportforyour mentaland physicalhealth?

INFERENCE

Regarding the regression table, it shows the unstandardized coefficients (B)and standardized coefficients (Beta) for two variables. The first variable is notlabeled in the table, but it has a coefficient of 2.068, a standard error of 0.155, astandardized coefficient of not provided, a t-value of 13.318, and a significant p-value of 0.000. Without more information about the variables being analyzed, it is difficult to interpret these coefficients.

As for the survey question, it appears to be unrelated to the regression tableand asks about the ways in which an airline company supports employees inmanaging fatigue and stress at work. Respondents are instructed to select all thatapply from a list of possible options. The response options are not included in yourquestion, soitis impossible commentation results of the survey.

4.4 ONE WAY

ANOVA

Doyoufeelthatyouremployerprovides adequatesupportforyourmentalandphysicalhealth?

	Sum	df	MeanS	F	Sig.
	ofSquar		quare		
	es				
Between Groups	3.810	4	.953	1.708	.154
Within Groups	57.988	104	.558		
Total	61.798	108			

Inference

Based on the information provided, it appears that an analysis of variance(ANOVA)wasconductedtoassessthedifferencesbetweengroupsonadependentvariable. The ANOVA table shows three sources of variation: Between Groups,WithinGroups, and Total. The Between Groups row shows the sum of squares (SS) for the differencesbetween the groups,

well as the degrees of freedom (df) associated with thissource of as variation.TheMeanSquareisobtained bydividingtheSSbythedf, andreflects the average amount of variation between the groups. The F statistic is aratio of the Between Groups Mean Square to the Within Groups Mean Square, andtests whether the differences between the groups are significant. The significancelevel, orp-value, is also reported.

The Within Groups row shows the SS and df for the variation within eachgroup, as well as the Mean Square. The Total row shows the overall SS, df, andMeanSquare forallobservationsinthe study.

In terms of inference, the results suggest that there is no statisticallysignificant difference between the groups on the dependent variable, as indicated by the non-significant p-value of .154 for the F test. The Between Groups MeanSquare is slightly larger than the Within Groups Mean Square, indicating that theremaybesomevariabilitybetweenthegroups,but this differenceisnot largeenoughto reach statistical significance. The Within Groups Mean Square reflects the average amount of variation within each group, which is higher than the BetweenGroups Mean Square, suggesting that there is more variability within each groupthanbetween the groups.

CONCLUSION

In conclusion, cabin crew members play a crucial role in ensuring the safety and comfort ofpassengers during flight. However, their job can be physically and emotionally demanding, leading to fatigue and stress. It is crucial to implement measures to mitigate these effects, including better work scheduling, mental health support, and fatigue risk managementsystems. By doing so, cabin crew members can perform their duties effectively whilemaintaining their physical and mental well-being.

References

Bauer, H., &Herbig, B. (2019). Occupational Stress in Helicopter EmergencyServicePilotsfrom4EuropeanCountries.Airmedicaljournal,38(2),82-94.

Bayani, A. A., &Samiei, R. (2015). The effect of job stress and job burnout onmental health ofelementaryteachers:Examiningahypotheticalmodel.IranianJournalofHealthEducationandHealthPromotion,2(4),312-321.

Cosio, S. E., Olson, L., & Francis, J. P. (2010). Social support and occupationalstressamonguniversityemployees(Doctoraldissertation,RegentUniversity).

Costa, G. (2000). Working and health conditions of Italian air traffic controllers.Internationaljournalofoccupationalsafetyandergonomics,6(3),365-382.

Dismukes, R. K., Kochan, J. A., & Goldsmith, T. E. (2018). Flight Crew Errorsin Challenging and Stressful Situations. Aviation Psychology and AppliedHumanFactors.

Ghasemian, A., & Kumar, G. V. (2017). Relationship between PersonalityTypesandStress:AComparativeStudyamongMaleandFemaleNursesinHealthCareSetting.J ournalofPsychosocialResearch,12(2),45-60.

Hanson, A. (2019). The Relationship between Stress, Burnout, and MindfulnessamongFirefighters(Doctoraldissertation,GrandCanyonUniversity).

Hasani, R. (2006). Investigating stress job in low-event and eventfuldepartments of Homa Airline in its employees' views during 2004-2005, Master's Thesis, Shahid BeheshtiUniversity

Howatt,W.A.(2011).Rolesofinternallocusofcontrolandself-efficacyonmanaging job stressors and ryff's six scales of psychological well-being.cholarworks.waldenu.edu

Irving, A. V. (2017). Occupational Stress and Law Enforcement OfficerSignificantRelationships(Doctoraldissertation,NorthcentralUniversity).

Ivask, S. (2018). Theroleofroutines, demands and resources inworks tress among Estonianjournalists (Doctoral dissertation).

Kilic, B., &Ucler, C. (2019). Stress among ab-initio pilots: A model of contributing factors by AHP. Journal of Air Transport Management, 80,101706.

Lazarus, R. S., & Folkman, S. (1984). Stress, appraisal, and coping. Eur. Chem. Bull. 2023, 12(Special Issue 8),3598-3619 Springerpublishingcompany.

Maymand, M. M., Shakhsian, F., &Hosseiny, F. S. (2012). The effect of stressonflightperformance.WorldAppliedSciencesJournal,19(10),1381-1387.

Melancon, R. R. (2014). Stress and the Psychological Well-Being of Organizational Leaders: AQualitativeInquiryintotheCopingStrategiesUsedbySchoolAdministrators.UniversityofLouisianaatLafayette.

Melton, C. E., Smith, R. C., McKenzie, J. M., Wicks, S. M., & Saldivar, J. T.(1977). Stress in air traffic personnel: Low-density towers and flight servicestations. Federal Aviation Administration Washington Dc Office Of AviationMedicine.
Ménard, K. S., & Arter, M. L. (2013). Police officer alcohol use and traumasymptoms: Associations with critical incidents, coping, and social stressors.InternationalJournalofStressManagement, 20(1),37.

Mitchell, T. R. (1978). People in organizations: Understanding their behavior.McGraw-HillCompanies.

Molaie, B., Mohamadi, M., Habibi, A., Zamanzadeh, V., Dadkhah, B., Molavi, P., & Mozaffari, N. (2011). A study of job stress and its related causes amongemployed women in Ardabil city. Journal of Ardabil University of MedicalSciences, 11(1), 76-85.

Omholt, M. L., Tveito, T. H., &Ihlebæk, C. (2017). Subjective healthcomplaints, work-related stress and self-efficacy in Norwegian aircrew.OccupationalMedicine, 67(2),135-142.

Ras, R., &Altaymer, E. (2002). job stress, translated by G. Khajehpour.IndustrialManagementInstitute Publications.

Rasoli, Z. (2012). Survey relationship job stress and burnout with ratproductivityin helicopter pilots.

Rohollahi, A., and Ahadimotlagh, E. (2014), Pathology of stress job causesamongflighttrafficcontrolemployees, QuarterlyofHumanResourceStudies, 4th year, No. 14.

Selye, H. (1950). Stress and the general adaptation syndrome. British medicaljournal,1(4667), 1383.

Selye, H. (1956). The stress of life McGraw Hill. New York.

Shoss, M. K. (2017). Job insecurity: An integrative review and agenda forfutureresearch.JournalofManagement,43(6),1911-1939.

Sonnentag, S. (2018). The recovery paradox: Portraying the complex interplaybetween job stressors, lack of recovery, and poor well-being. Research inOrganizationalBehavior.

Straws, Anselm, Corbin, and Juliet (1990). Qualitative research foundations, techniques, and generation stages of the grounded theory, Nashr-e NeyPublications

Theorell, T. (2014). Commentary triggered by the Individual Participant DataMeta- Analysis Consortium study of job strain and myocardial infarction risk.Scandinavianjournalofwork,environment&health,40(1),89-95.

Trybou,J.,Germonpre,S.,Janssens,H.,Casini,A.,Braeckman,L.,Bacquer,D.D., & Clays, E. (2014).Job-relatedstressandsicknessabsenceamongBelgiannurses:Aprospectivestudy.Journalofnursingscholarship,46(4),292-301.

Vosoughi-Nayyeri, A., Rohollahi, A., & Mohammadhosein, H. (2016), Investigating the effects of job stress on the general health and job performanceofflighttrafficcontrolemployess, MonthlyofIranWorkHealth; 13, 45-50.