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23 editors and editorial board members in 2 countries/regions

1 United States of America (22)

2 Canada (1)

Editorial board

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FEEDBACK

ARCHIVES OF PSYCHIATRIC NURSING

Publisher: **W B SAUNDERS CO-ELSEVIER INC , 1600 JOHN F KENNEDY BOULEVARD, STE 1800, PHILADELPHIA, USA, PA, 19103-2899**

ISSN / eISSN: **0883-9417 / 1532-8228**

Web of Science Core Collection: **Science Citation Index Expanded | Social Sciences Citation Index**

Additional Web of Science Indexes: **Current Contents Social And Behavioral Sciences | Essential Science Indicators**

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2021 Journal Performance Data for: ARCHIVES OF PSYCHIATRIC NURSING

ISSN	EISSN
0883-9417	1532-8228
JCR ABBREVIATION	ISO ABBREVIATION
ARCH PSYCHIAT NURS	Arch. Psychiatr. Nurs.

Journal Information

EDITION	CATEGORY	
Social Sciences Citation Index (SSCI) Science Citation Index Expanded (SCIE)	PSYCHIATRY - SSCI NURSING - SCIE PSYCHIATRY - SCIE NURSING - SSCI	
LANGUAGES	REGION	1ST ELECTRONIC JCR YEAR
English	USA	1997

Publisher Information

PUBLISHER	ADDRESS	PUBLICATION FREQUENCY
W B SAUNDERS CO-ELSEVIER INC	1600 JOHN F KENNEDY BOULEVARD, STE 1800, PHILADELPHIA, PA 19103-2899	6 issues/year

Journal's Performance

Journal Impact Factor

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It should be used with careful attention to the many factors that influence citation rates, such as the volume of publication and citations characteristics of the subject area and type of journal. The Journal Impact Factor can complement expert opinion and informed peer review. In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles.

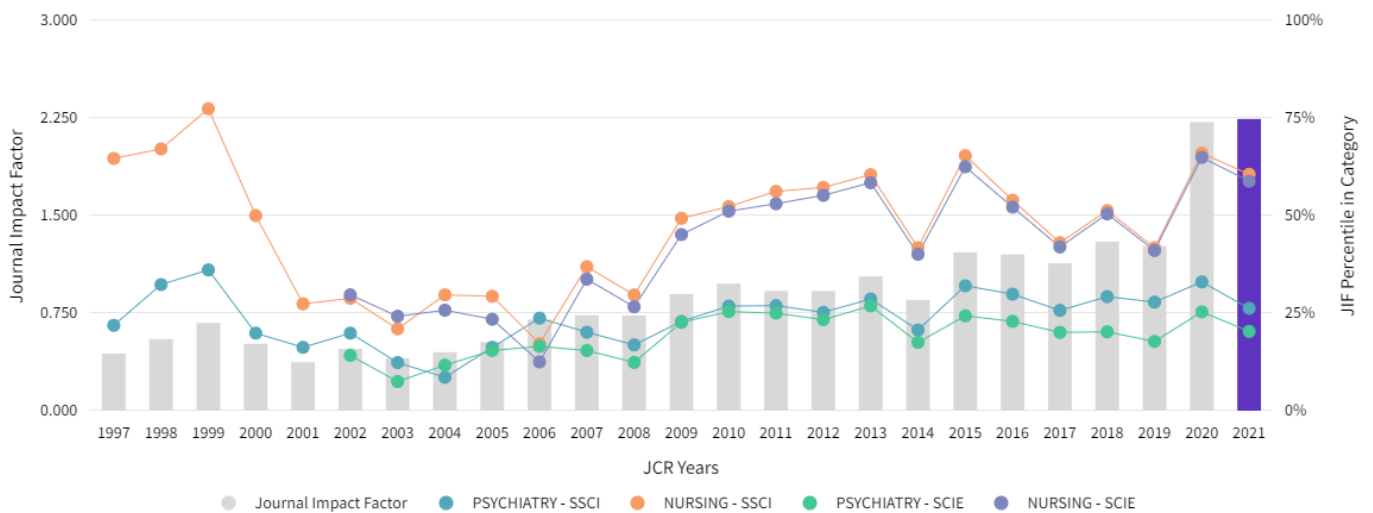
2021 JOURNAL IMPACT FACTOR

2.242

2021 JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS

2.157

Journal Impact Factor Trend 2021



Journal Impact Factor is calculated using the following metrics

Citations in 2021 to items published in 2019 (203) - 2020 (196)	=	399	=	2.242
<hr/>		<hr/>		
Number of citable items in 2019 (86) + 2020 (92)		178		

Journal Impact Factor without self cites is calculated using the following metrics

Citations in 2021 to items published in 2019 (203) + 2020 (196) - Self Citations in 2021 to items published in 2019 (6) + 2020 (9)	=	399 - 15	=	2.157
<hr/>		<hr/>		
Number of citable items in 2019 (86) + 2020 (92)		178		

Journal Impact Factor Contributing Items

Citable Items (178)

TITLE	CITATION COUNT
Psychological effects of nurses and midwives due to COVID-19 outbreak: The case of Turkey Authors: Aksoy, Yasemin Erkal;Kocak, Vesile Volume: 34 Accession number: WOS:000581796800024 Document Type: Article	32
Mental health and risk perception among Italian healthcare workers during the second month of the Covid-19 pandemic Authors: Gorini, Alessandra;Fiabane, Elena;Sommaruga, Marinella;Barbieri, Simone;Sottotetti, Federico;La Rovere, Maria Teresa;Tremoli, Elena;Gabanelli, Paola Volume: 34 Accession number: WOS:000598651900017 Document Type: Article	21
Beyond the ACE score: Examining relationships between timing of developmental adversity, relational health and developmental outcomes in children Authors: Hambrick, Erin P.;Brawner, Thomas W.;Perry, Bruce D.;Brandt, Kristie;Hofmeister, Christine;Collins, Jen O. Volume: 33 Accession number: WOS:000473375500005 Document Type: Article	15
Perinatal depression and infant mental health Authors: Goodman, Janice H. Volume: 33 Accession number: WOS:000473375500002 Document Type: Article	12
Prevalence of verbal and physical workplace violence against nurses in psychiatric hospitals in China Authors: Lu, Li;Lok, Ka-In;Zhang, Ling;Hu, Ailing;Ungvari, Gabor S.;Bressington, Daniel T.;Cheung, Teris;An, Feng-Rong;Xiang, Yu-Tao Volume: 33 Accession number: WOS:000498333400012 Document Type: Article	12

Showing 1-5 rows of 178 total (use export in the relevant section to download the full table)

Journal Impact Factor Contributing Items

Citing Sources (250)

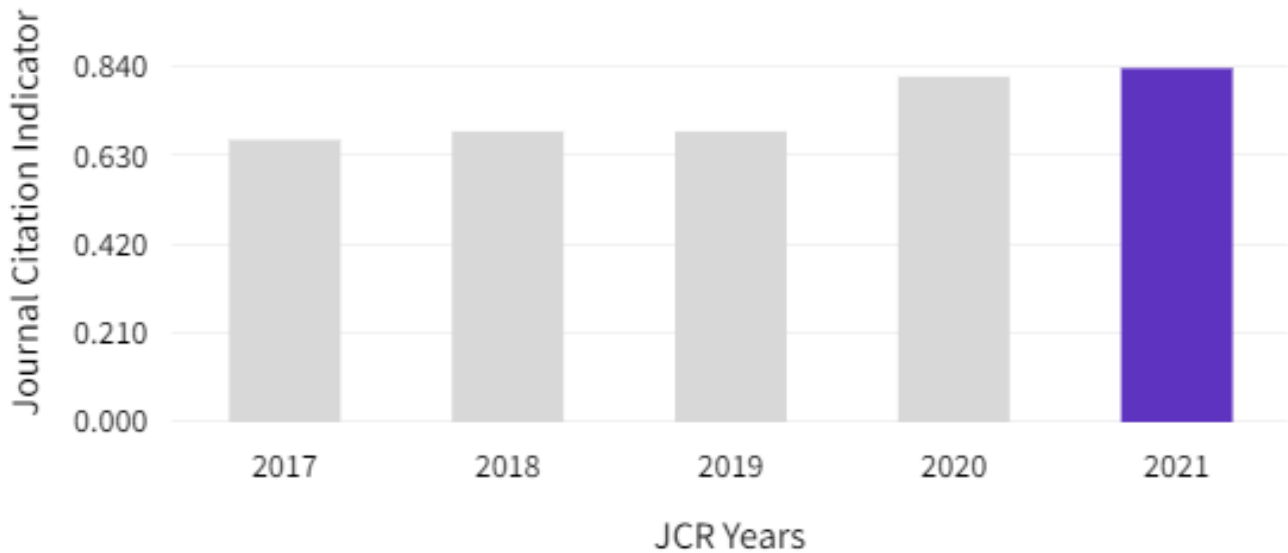
SOURCE NAME	COUNT
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	15
ARCHIVES OF PSYCHIATRIC NURSING	15
FRONTIERS IN PSYCHOLOGY	12
PERSPECTIVES IN PSYCHIATRIC CARE	11
JOURNAL OF CLINICAL NURSING	8
FRONTIERS IN PSYCHIATRY	7
INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING	6
MINERVA PSYCHIATRY	6
BMC PSYCHIATRY	5
PLOS ONE	5
NURSING OPEN	4
JOURNAL OF PSYCHOSOCIAL NURSING AND MENTAL HEALTH SERVICES	4
ADDICTIVE DISORDERS & THEIR TREATMENT	4
CHILDREN AND YOUTH SERVICES REVIEW	4
PAKISTAN JOURNAL OF MEDICAL & HEALTH SCIENCES	4
HELIYON	4
ISSUES IN MENTAL HEALTH NURSING	3
PUBLIC HEALTH	3
JOURNAL OF NERVOUS AND MENTAL DISEASE	3
BMC PREGNANCY AND CHILDBIRTH	3

Showing 1-20 rows of 250 total (use export in the relevant section to download the full table)

Journal Citation Indicator (JCI)

0.84

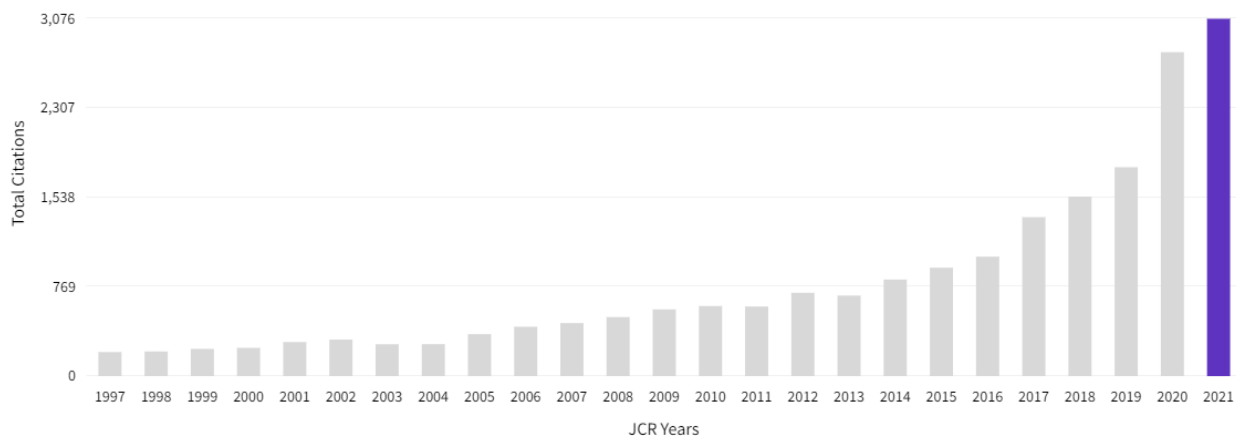
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It may be used alongside other metrics to help you evaluate journals.



Total Citations

3,076

The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



Citation Distribution

The Citation Distribution shows the frequency with which items published in the year or two years prior were cited in the JCR data year (i.e., the component of the calculation of the JIF). The graph has similar functionality as the JIF Trend graph, including hover-over data descriptions for each data point, and an interactive legend where each data element's legend can be used as a toggle. You can view Articles, Reviews, or Non-Citable (other) items to the JIF numerator.

ARTICLE CITATION MEDIAN

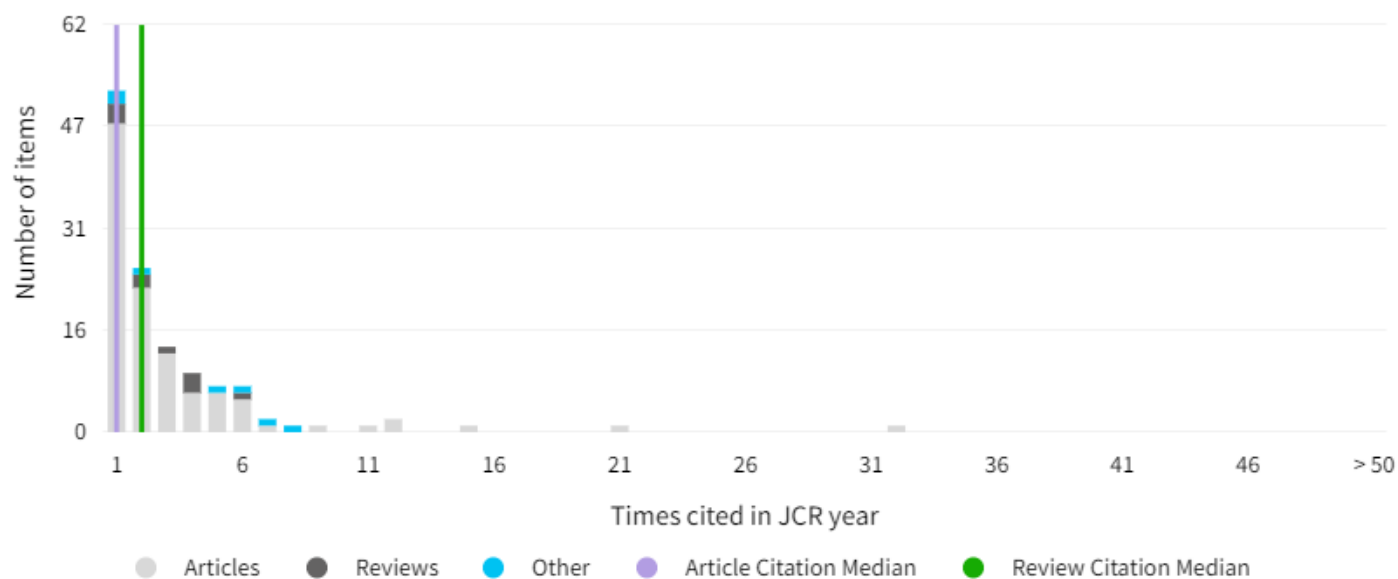
1

REVIEW CITATION MEDIAN

2

UNLINKED CITATIONS

11



0 times cited

ARTICLES

60

REVIEWS

2

OTHER

13

Open Access (OA)

The data included in this tile summarizes the items published in the journal in the JCR data year and in the previous two years. For example, in the 2020 JCR data, released in June 2021, the Open Access (OA) data show the publication model (Gold OA or subscription) of materials published in 2018, 2019 and 2020, and citations in 2020 to these items. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal.

Items

TOTAL CITABLE

279

% OF CITABLE OA

4.66%

CITABLE

● GOLD OPEN ACCESS

13 / 4.15%

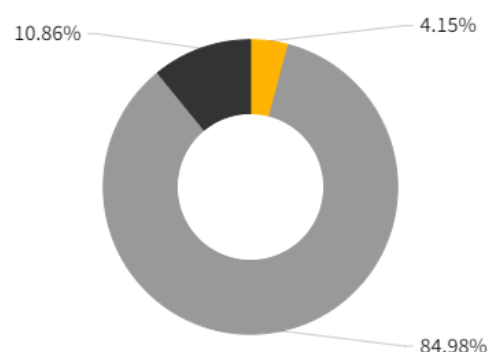
● SUBSCRIPTION OR BRONZE

266 / 84.98%

NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

34 / 10.86%



Citations*

TOTAL CITABLE

402

% OF CITABLE OA

3.73%

CITABLE

● GOLD OPEN ACCESS

15 / 3.28%

● SUBSCRIPTION OR BRONZE

387 / 84.68%

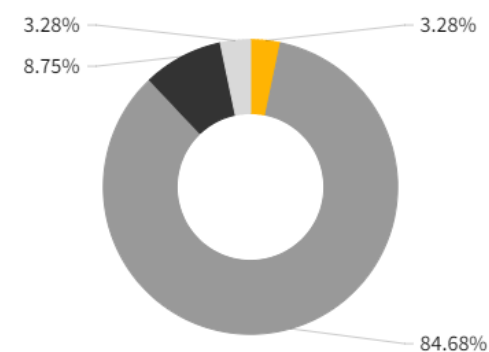
NON-CITABLE

● OTHER (NON-CITABLE ITEMS)

40 / 8.75%

● UNLINKED CITATIONS

15 / 3.28%



* Citations in 2021 to items published in (2019-2021)

Rank by Journal Impact factor

Journals within a category are sorted in descending order by Journal Impact Factor (JIF) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order.

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

NURSING

52/125

EDITION

Social Sciences Citation Index (SSCI)

CATEGORY

NURSING

49/123

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE		JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2021	52/125	Q2	58.80		2021	49/123	Q2	60.57	
2020	44/124	Q2	64.92		2020	42/122	Q2	65.98	
2019	73/123	Q3	41.06		2019	71/121	Q3	41.74	
2018	60/120	Q2	50.42		2018	58/118	Q2	51.27	
2017	69/118	Q3	41.95		2017	66/115	Q3	43.04	
2016	56/116	Q2	52.16		2016	53/114	Q2	53.95	
2015	44/116	Q2	62.50		2015	40/114	Q2	65.35	
2014	67/111	Q3	40.09		2014	64/109	Q3	41.74	
2013	45/107	Q2	58.41		2013	42/105	Q2	60.48	
2012	48/106	Q2	55.19		2012	45/104	Q2	57.21	
2011	47/99	Q2	53.03		2011	43/97	Q2	56.19	
2010	44/89	Q2	51.12		2010	42/87	Q2	52.30	
2009	40/72	Q3	45.14		2009	36/70	Q3	49.29	
2008	46/62	Q3	26.61		2008	42/59	Q3	29.66	
2007	31/46	Q3	33.70		2007	27/42	Q3	36.90	
2006	32/36	Q4	12.50		2006	27/32	Q4	17.19	
2005	25/32	Q4	23.44		2005	21/29	Q3	29.31	
2004	25/33	Q4	25.76		2004	23/32	Q3	29.69	
2003	24/31	Q4	24.19		2003	25/31	Q4	20.97	
2002	23/32	Q3	29.69		2002	24/33	Q3	28.79	
2001	N/A	N/A	N/A		2001	31/42	Q3	27.38	
2000	N/A	N/A	N/A		2000	22/43	Q3	50.00	
1999	N/A	N/A	N/A		1999	10/42	Q1	77.38	
1998	N/A	N/A	N/A		1998	14/41	Q2	67.07	
1997	N/A	N/A	N/A		1997	15/41	Q2	64.63	

EDITION

Science Citation Index Expanded (SCIE)

CATEGORY

PSYCHIATRY

124/155

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2021	124/155	Q4	20.32	
2020	117/156	Q3	25.32	
2019	128/155	Q4	17.74	
2018	117/146	Q4	20.21	
2017	114/142	Q4	20.07	
2016	110/142	Q4	22.89	
2015	108/142	Q4	24.30	
2014	116/140	Q4	17.50	
2013	100/136	Q3	26.84	
2012	104/135	Q4	23.33	
2011	98/130	Q4	25.00	
2010	96/128	Q3	25.39	
2009	91/117	Q4	22.65	
2008	89/101	Q4	12.38	
2007	80/94	Q4	15.43	
2006	79/94	Q4	16.49	
2005	80/94	Q4	15.43	
2004	80/90	Q4	11.67	
2003	81/87	Q4	7.47	
2002	76/88	Q4	14.20	
2001	N/A	N/A	N/A	
2000	N/A	N/A	N/A	
1999	N/A	N/A	N/A	
1998	N/A	N/A	N/A	
1997	N/A	N/A	N/A	

EDITION

Social Sciences Citation Index (SSCI)

CATEGORY

PSYCHIATRY

106/143

JCR YEAR	JIF RANK	QUART ILE	JIF PERCENTILE	
2021	106/143	Q3	26.22	
2020	97/144	Q3	32.99	
2019	103/142	Q3	27.82	
2018	101/142	Q3	29.23	
2017	106/142	Q3	25.70	
2016	98/139	Q3	29.86	
2015	95/139	Q3	32.01	
2014	106/133	Q4	20.68	
2013	89/124	Q3	28.63	
2012	91/121	Q4	25.21	
2011	86/117	Q3	26.92	
2010	81/110	Q3	26.82	
2009	73/94	Q4	22.87	
2008	72/86	Q4	16.86	
2007	66/82	Q4	20.12	
2006	60/78	Q4	23.72	
2005	65/77	Q4	16.23	
2004	70/76	Q4	8.55	
2003	68/77	Q4	12.34	
2002	63/78	Q4	19.87	
2001	65/77	Q4	16.23	
2000	63/78	Q4	19.87	
1999	51/79	Q3	36.08	
1998	56/82	Q3	32.32	
1997	63/80	Q4	21.88	

Rank by Journal Citation Indicator (JCI)

Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order.

Only journals which have a calculated JCI value are included in the JCI ranking. The total number of journals displayed in this ranking may be less than the category overall.

CATEGORY

NURSING

67/182

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2021	67/182	Q2	63.46	
2020	74/181	Q2	59.39	
2019	90/180	Q2	50.28	
2018	90/175	Q3	48.86	
2017	87/175	Q2	50.57	

CATEGORY

PSYCHIATRY

96/258

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE	
2021	96/258	Q2	62.98	
2020	103/252	Q2	59.33	
2019	124/251	Q2	50.80	
2018	124/250	Q2	50.60	
2017	120/243	Q2	50.82	

Citation network

Cited Half-life

6.1 years

The Cited Half-Life is the median age of the items in this journal that were cited in the JCR year. Half of a journal's cited items were published more recently than the cited half-life.

TOTAL NUMBER OF CITES

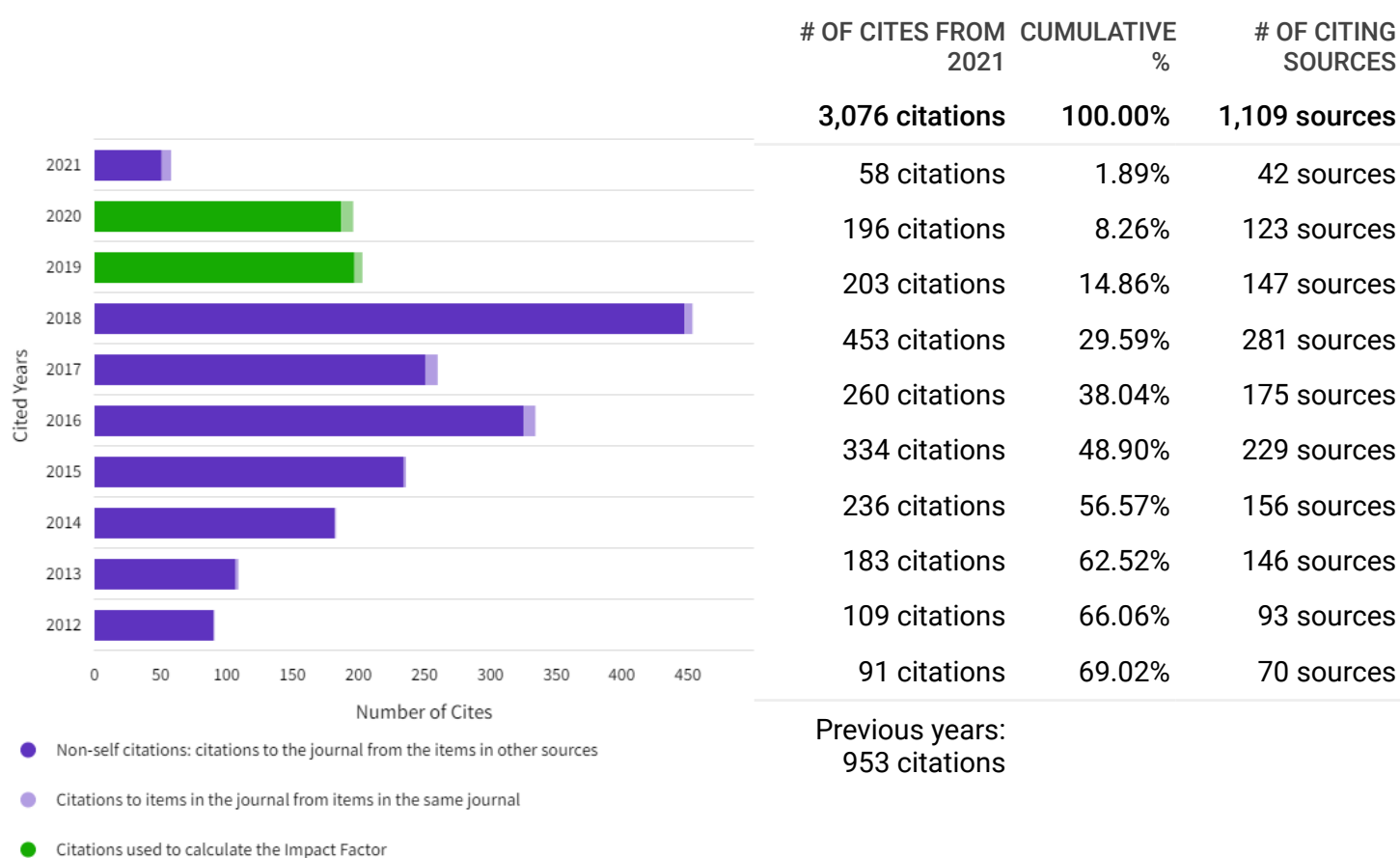
3,076

NON-SELF CITATIONS

3,014

SELF CITATIONS

62



Citing titles in all years

ARCHIVES OF PSYCHIATRIC NURSING

	SOURCE NAME	COUNT
	All Others	643
1	International Journal of Environmental Research and Public Health	102
2	PERSPECTIVES IN PSYCHIATRIC CARE	73
3	Frontiers in Psychiatry	66
4	International Journal of Mental Health Nursing	65
5	ARCHIVES OF PSYCHIATRIC NURSING	62
6	Frontiers in Psychology	57
7	BMC Psychiatry	39
8	PLoS One	38
9	JOURNAL OF AFFECTIVE DISORDERS	36
10	JOURNAL OF CLINICAL NURSING	32
11	Journal of Psychiatric and Mental Health Nursing	28
12	BMJ Open	25
13	JOURNAL OF INTERPERSONAL VIOLENCE	23
14	JOURNAL OF PSYCHOSOCIAL NURSING AND MENTAL HEALTH SERVICES	23
15	CURRENT PSYCHOLOGY	20
16	JOURNAL OF ADVANCED NURSING	20
17	Journal of the American Psychiatric Nurses Association	20
18	Healthcare	19
19	INTERNATIONAL JOURNAL OF NURSING STUDIES	19
20	Issues in Mental Health Nursing	19

Showing 1 - 20 rows of 462 total (use export in the relevant section to download the full table)

Citing Half-life

6.3 years

The Citing Half-Life is the median age of items in other publications cited by this journal in the JCR year.

TOTAL NUMBER OF CITES

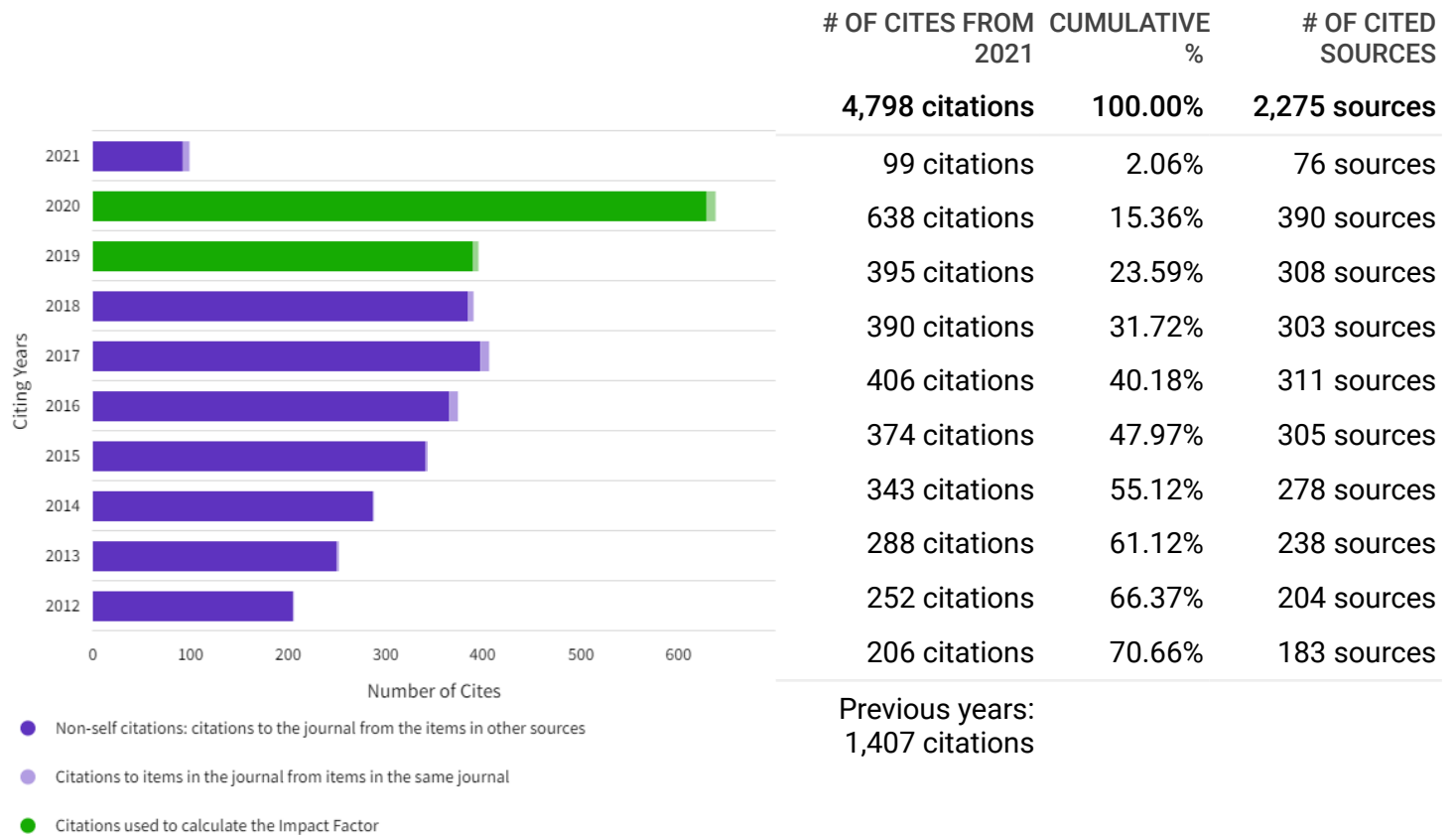
4,798

NON-SELF CITATIONS

4,736

SELF CITATIONS

62



Cited titles in all years

ARCHIVES OF PSYCHIATRIC NURSING

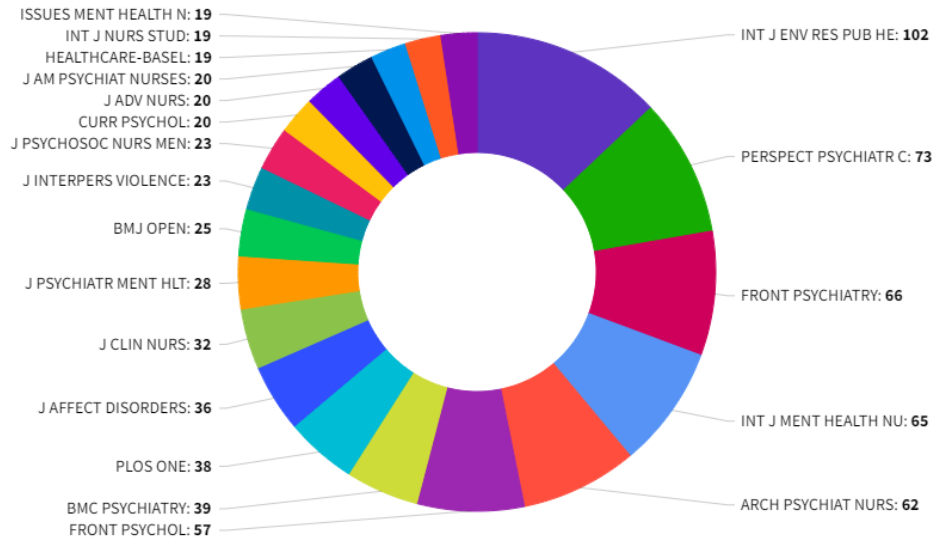
	SOURCE NAME	COUNT
	All Others	1,664
1	ARCHIVES OF PSYCHIATRIC NURSING	62
2	International Journal of Mental Health Nursing	54
3	JOURNAL OF ADVANCED NURSING	51
4	PLoS One	47
5	BMC Psychiatry	45
6	JOURNAL OF AFFECTIVE DISORDERS	43
7	Journal of Psychiatric and Mental Health Nursing	42
8	PSYCHIATRY RESEARCH	41
9	International Journal of Environmental Research and Public Health	38
10	PSYCHIATRIC SERVICES	37
11	JOURNAL OF CLINICAL NURSING	33
12	Journal of Nursing Management	33
13	BRITISH JOURNAL OF PSYCHIATRY	31
14	INTERNATIONAL JOURNAL OF NURSING STUDIES	31
15	SOCIAL SCIENCE & MEDICINE	28
16	NURSE EDUCATION TODAY	27
17	Issues in Mental Health Nursing	25
18	ACTA PSYCHIATRICA SCANDINAVICA	22
19	Frontiers in Psychiatry	22
20	Lancet Psychiatry	22

Showing 1 - 20 rows of 492 total (use export in the relevant section to download the full table)

Journal Citation Relationships

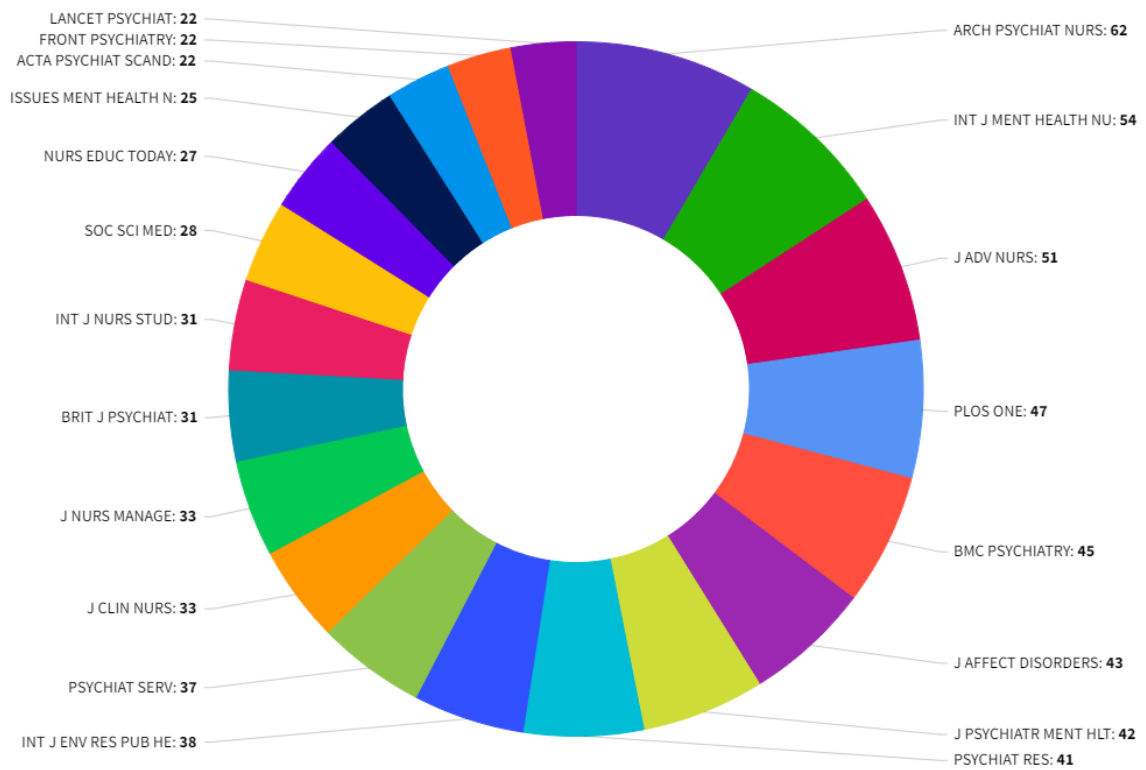
Cited Data

Top 20 journals citing ARCH PSYCHIAT NURS by number of citations



Citing Data

Top 20 journals cited by ARCH PSYCHIAT NURS by number of citations



Content metrics

Source data

This tile shows the breakdown of document types published by the journal. Citable Items are Articles and Reviews. For the purposes of calculating JIF, a JCR year considers the publications of that journal in the two prior years.

101 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2021 (A)	97	4	101	14	88%
NUMBER OF REFERENCES (B)	4,154	351	4,505	293	94%
RATIO (B/A)	42.8	87.8	44.6	20.9	

Average JIF Percentile

The Average Journal Impact Factor Percentile takes the sum of the JIF Percentile rank for each category under consideration, then calculates the average of those values.

ALL CATEGORIES AVERAGE

41.48

EDITION

Science Citation Index Expanded

NURSING

58.80

PSYCHIATRY

20.32

EDITION

Social Sciences Citation Index

PSYCHIATRY









26.22

NURSING

60.57

Contributions by Organizations









Organizations that have contributed the most papers to the journal in the most recent three-year period.

RANK	ORGANIZATION	COUNT	
1	UNIVERSIDADE DE SAO PAULO	15	
2	UNIVERSITY OF NORTH CAROLINA	9	
3	NATIONAL INSTITUTE OF MENTAL HEALTH & NEUROSCIENCES - INDIA	7	
-	UNIVERSITY OF CALIFORNIA SYSTEM	7	
5	JOHNS HOPKINS UNIVERSITY	6	
-	PENNSYLVANIA COMMONWEALTH SYSTEM OF HIGHER EDUCATION (PCSHE)	6	
-	STATE UNIVERSITY SYSTEM OF FLORIDA	6	
-	WORLD HEALTH ORGANIZATION	6	

Showing 1 - 8 rows of 535 total (use export in the relevant section to download the full table)

Contributions by country/region

Countries or Regions that have contributed the most papers to the journal in the most recent three-year period.

RANK	COUNTRY/REGION	COUNT	
1	USA	122	
2	Turkey	35	
3	CHINA MAINLAND	22	
-	South Korea	22	
5	Brazil	18	
6	Australia	15	
7	Iran	12	
8	Canada	11	

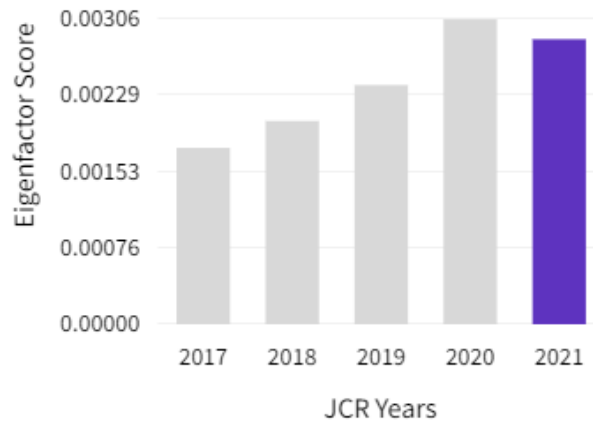
Showing 1 - 8 rows of 45 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00286

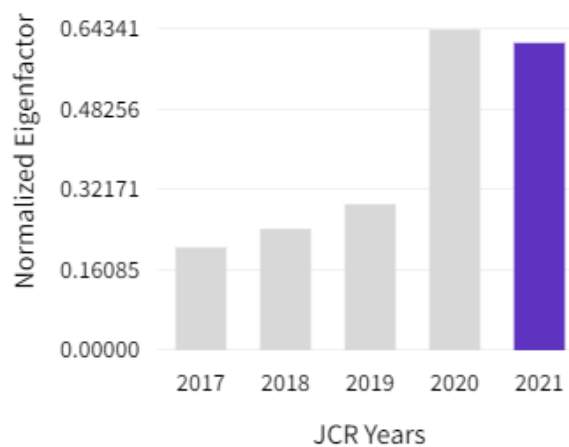
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than less cited sources. The Eigenfactor calculation does not include journal self-citations.



Normalized Eigenfactor

0.61681

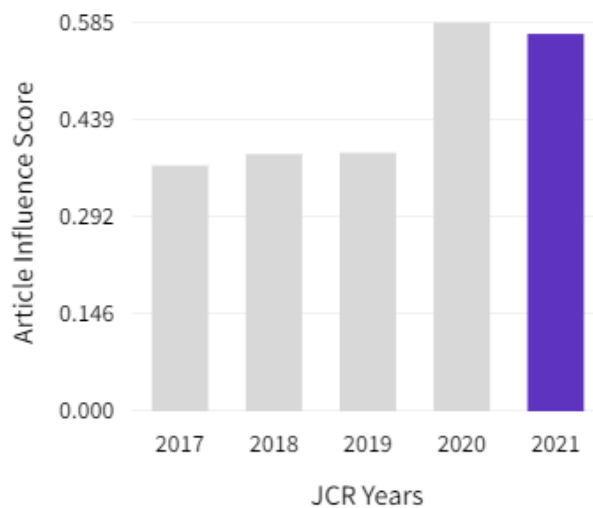
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1.



Article influence score

0.568

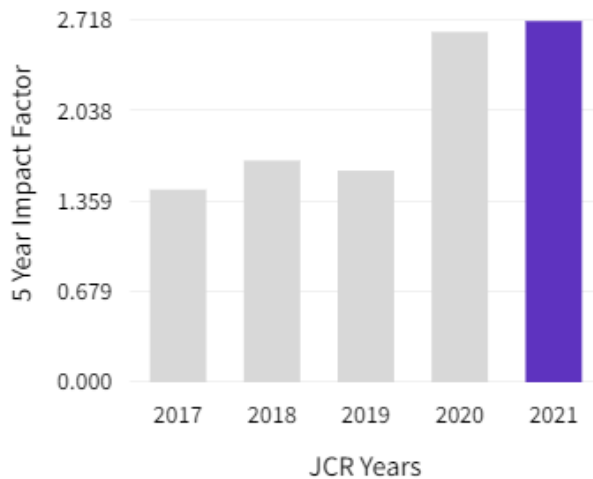
The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.



5 year Impact Factor

2.718

The 5-year Impact Factor is the average number of times articles from the journal published in the past five years have been cited in the JCR year. It is calculated by dividing the number of citations in the JCR year by the total number of articles published in the five previous years.



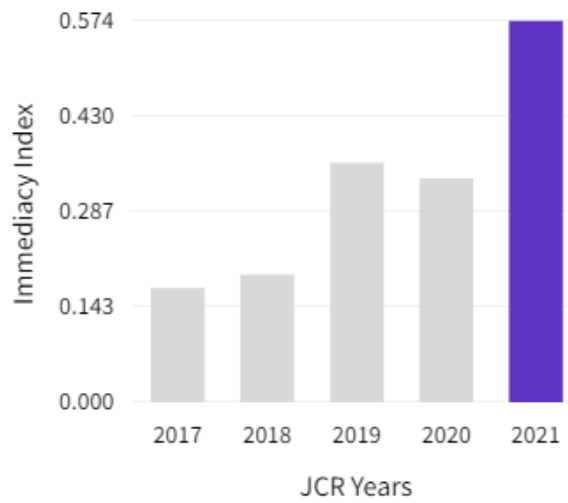
5 year Impact Factor calculation

Citations in 2021 to items published in [2016-2020] (1,446)	=	1,446	=	2.718
Number of citable items in [2016-2020] (532)		532		

Immediacy Index

0.574

The Immediacy Index is the count of citations in the current year to the journal that reference content in this same year. Journals that have a consistently high Immediacy Index attract citations rapidly.



Immediacy Index calculation

Cites in 2021 to items published in 2021	58	
<hr/>		58 / 101 = 0.574
Number of items published in 2021	101	



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Editor

Edilma L. Yearwood PhD, PMHCNS-BC, FAAN



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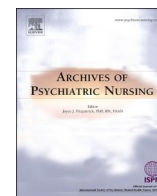
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Bullying and coping with bullying among obese\overweight and normal weight children

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ABSTRACT

This study aimed to determine the obese\overweight and normal weight children's status of encountering and coping with bullying and the correlational factors. This case-control study was conducted with 1.680 students in the second level (5th, 6th, 7th, 8th grades) from September 24, 2018 to May 31, 2019 in the Mediterranean Region in Turkey. The data were collected using a personal information form, the Traditional Peer Victimization Scale and the Coping with Bullying Scale. Data were analyzed using the Shapiro-Wilk test, Mann–Whitney *U* test, Binary Logistic Regression, Backward Wald Elimination, and Simple Linear and Backward Stepwise Multiple Linear Regression analyses. This study indicated that the risk of becoming victims, bullies or bully-victims increases among boys and 8th grade students. It also found that the risk of being victims and bully-victims increases among children whose father is illiterate. There was no significant difference between obese\overweight and normal weight children in terms of being victims, bullies and bully-victims. Grade level, academic performance, father's education level and awareness of reporting bullying were effective in coping with bullying among the children, while weight was not. Further studies are needed to determine different factors that affect children's coping strategies against bullying.

Introduction

Nearly 3 million people worldwide lose their lives every year due to overweight or obesity (Hingle & Kunkel, 2012). The increase in the prevalence of obesity among children and adolescents, especially in underdeveloped and developing countries, indicates that childhood obesity is potentially a global public health issue (World Health Organization, 2016a). In European Region, one-half of adults and one fifth of children are overweight and one third of children are obese, and this rate is increasing rapidly (European Congress on Obesity, 2018). In Turkey, of the 10-to-14-year-old children, 19.6% are overweight and 10.5% are obese (Action Plan for Prevention of Childhood Obesity, 2019–2023). Childhood obesity is particularly significant for children's health for two reasons: it can lead to many metabolic and chronic diseases in the early years of life, and psychological problems can cause obese children to experience lack of self-confidence and problems in adaptation to the environment even in older ages (TEMA, 2018). They also face other risks, including bullying.

Bullying is a problem that harms children physically, psychologically and socially, and its effects can persist not only during childhood, but

throughout life (Moore et al., 2017; Wolke & Lereya, 2015). In 2018, 23.0% of the children in OECD countries and 24.0% of the children in Turkey experienced bullying at least five times a month (PISA, 2018). Although there is strong evidence that obese and overweight children are more likely to be bullied compared with their normal weight peers (Koyanagi et al., 2020; Lee et al., 2018; Lian et al., 2018; Van Geel et al., 2014; Waasdorp et al., 2018; Waasdorp et al., 2019; Wang et al., 2010), studies have shown that obese and overweight children also bully (Griffiths et al., 2006; Janssen et al., 2004; Kim et al., 2016). One study reported that obese and overweight 15–16-year-old children are more likely to continue to bully than their normal weight peers (Janssen et al., 2004).

Most of the studies conducted with obese and overweight children have examined the risks of being bullied and being perpetrators of bullying; however, few studies have addressed both (Jansen et al., 2014; Lee et al., 2018; Bacchini et al., 2015; Rupp & McCoy, 2019). Studies have examined a wide age range of children and young adolescents. Some studies have reported that the rates of bullying decrease toward the end of secondary school (Ashrafi et al., 2020; Moon et al., 2016; Pervanidou et al., 2019; PISA, 2018; Shaheen et al., 2018), while others

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have reported that victimization rates increase in parallel with age (Arslan et al., 2012; Atik & Güneri, 2013; Caliskan et al., 2019; Salmon et al., 2018; Turner et al., 2018). These results indicate that further studies are needed on the risk of being exposed to bullying and being perpetrators of bullying among obese and overweight children. Most of these studies were conducted in developed Western countries; however, studies have reported that children in non-Western countries have more positive attitudes in not participating in bullying. Therefore, further studies should be carried out in low- and middle-income countries and different cultures (Crystal et al., 2000; Kim et al., 2016; Koyanagi et al., 2020; Liu et al., 2016). In this regard, it is important to assess obese and overweight children's coping strategies for dealing with bullying. Most of the studies in the literature focus on obese and overweight children's coping strategies for dealing with mocking and stigmatization, while only a limited number of studies have directly examined these children's coping skills for dealing with peer bullying (Himmelstein & Puhl, 2019; Puhl & Luedicke, 2012). Studies have also reported that overweight and obese children mostly engage in avoidance behaviors toward mocking and stigmatization and cope with them by overeating and engaging in risky behaviors (Farhat et al., 2010; Himmelstein & Puhl, 2019; Lin, 2019; Puhl & Luedicke, 2012). No studies that compare the coping strategies of overweight and obese children with those of their normal weight peers were found in the literature. One study has reported that weight-oriented bullying has been ignored in school-based anti-bullying programs in the last 50 years, and that bullying related to weight is worrying and may require intervention (Aimé et al., 2017).

Among healthcare professionals, nurses play a key role in the prevention of bullying. School nurses in particular should take primary, secondary and tertiary measures for children by working in collaboration with teachers, families, and health professionals such as psychologists, psychological counselors and physicians (Coskun & Bebis, 2014; Galitz & Robert, 2014; Zych et al., 2015). Turkey is a middle-income country that bridges the cultural richness of Asia and Europe. In Turkey, the duties, powers and responsibilities of school health nurses are determined by nursing regulations; however, school nurses are not employed in public schools (Avsar & Alkaya, 2018). Therefore, bullying is an issue that all nurses who care for the child must handle.

The aim of this case-control study was to determine the obese/overweight and normal weight children's status of encountering and coping with bullying and the correlational factors by seeking answers to the following research questions: 1) Is children's body weight a risk factor for being victims of bullying? 2) Is children's body weight a risk factor for bullying others? 3) Is children's body weight a risk factor for being bully/victim? 4) Are obese/overweight and normal weight children different in terms of coping with bullying? 5) What are the coping methods that obese/overweight and normal weight children use?

Methods

Sample

The sample size was calculated as 1.680 students (840 obese/overweight students for the experiment group and 840 normal weight students for the control group) by effect size $f^2 = 0.033$, with 95% probability ($\alpha = 0.05$) and 90% power.

In Turkey, compulsory education is administered for 12 years by the Ministry of National Education, and the National Education Directorates affiliated with the Ministry of National Education are responsible for this education. Turkey's 12-year compulsory education has three levels in a 4 + 4 + 4 education system: a) primary school (the 1st, 2nd, 3rd and 4th grades), b) middle school (the 5th, 6th, 7th and 8th grades), and c) secondary school (the 9th, 10th, 11th and 12th grades) (Ministry of National Education, 2012).

This study was conducted from September 24, 2018 to May 31, 2019 in middle schools affiliated with the Provincial Directorate of Education in a city in Turkey's Mediterranean Region. The schools were

categorized as low, middle and high income schools. Among them, two schools were randomly selected for each category. There were 4.213 students (in the 5th, 6th, 7th and 8th grades) in the city's middle schools at the time of the study. The researchers received the approval of the ethics committee and the Ministry of National Education for the study. Then, they visited the school administrators to explain the aim of the study and ask for their help. All administrators in these schools agreed to cooperate and gave their approval for data collection. A list of students in these schools were created. Students were identified using the table of random numbers from this list. A written informed consent form, which was prepared in accordance with the Declaration of Helsinki, was sent to the students and their parents in opaque envelopes. This form explained the purpose and gave an overview of the study, and explained that the children would be assigned to the case or control group according to their body weight. The consent form also included phone numbers that the parents and children could easily use to ask questions about the study. A total of 1.875 students were invited to participate in the study. All students who gives his/her assent to participate and whose his/her parents provided verbal and written consent were included in the study. None of the participants wanted to leave the study after the study started; however, 195 students who did not give their assent to participate in the study and who their parents did not give their consent were not included in the study. The children who did not have any physical, cognitive or psychological disabilities and who had similar sociodemographic characteristics were included in the study.

Ethical considerations

Prior to the study, ethical committee approval and written permission were obtained from the Ethics Committee (2017/61) and the Provincial Directorate of National Education. In addition, informed consent was obtained from the children and their parents.

Data collection

During the study, the researchers interviewed the students and took their measurements at their schools once a week without disrupting their education. The children completed the questionnaires in 20 to 25 min, and their height and body weight measurements were recorded separately. The completion of the data collection tools took about 40 min.

The students' body mass index (BMI) values were calculated using the kg/m^2 formula and evaluated according to the study of Neyzi et al. (2008). The students were assigned to the case and control groups according to their BMI. The students whose values were between 5% and 85% were assigned to the control (normal weight) group, and those whose values were over 85% were assigned to the case (obese/overweight) group. The participants in the case and control groups had similar sociodemographic characteristics, and no statistically significant difference was found between them.

Data collection tools

Personal information form

This form was developed by reviewing the literature and it includes items about the children's age, gender, height, weight, academic performance, and their classmates' characteristics as well as the parents' age, gender, education level, and employment status (Bacchini et al., 2015; Burnukara & Ucanok, 2012; Hong et al., 2018; Jansen et al., 2014; Jeong et al., 2016; Juvonen & Graham, 2014; Kim et al., 2016; Kovalskys et al., 2016; Kukawadia et al., 2011; Lee et al., 2018; Lian et al., 2018; Puhl et al., 2017; Rigby & Johnson, 2016; Waasdorp et al., 2018; Zhang et al., 2016).

Traditional peer victimization scale (TPVS)

This scale was revised from the Multidimensional Peer-Victimization

Scale developed by Mynard and Joseph and adapted into Turkish by Gültekin and Sayıl (Burnukara & Ucanok, 2012). This self-report and 4-point Likert-type scale consists of 31 items. Each item has two options: 'a' for the adolescents' experiences as a victim and 'b' for their experiences as a bully. Total scores on the bully and victim forms in the TPVS determine children's status of being a bully, victim, or bully-victim. Adolescents who obtained a score one standard deviation above the mean on the bully form were considered bullies, those who obtained a score one standard deviation above the mean on the victim form were considered victims, and those who obtained a score one standard deviation above the mean on both the bully and the victim forms were considered bully-victims. The TPVS has 6 subscales: verbal victimization, relational victimization, physical victimization, attack on property, social exclusion, and threatening. The Cronbach's alpha coefficients for the victim and bully forms were 0.92 and 0.91, respectively (Burnukara & Ucanok, 2012). In the present study, the Cronbach's alpha coefficients for the victim and bully forms were 0.94 and 0.95, respectively.

Coping with bullying scale

This 4-point Likert-type scale was developed by Dölek (2002). The scale items are scored as 1: strongly disagree; 2: disagree; 3: agree; and 4: strongly agree. Higher scores indicate higher levels, and lower scores indicate lower levels of coping with bullying. The Coping with Bullying Scale has 24 items under 6 factors: awareness of preventing bullying, resistance to bullying, awareness of reporting bullying, awareness of asking for help, awareness of not remaining unresponsive, and awareness of self-defense. The scale's Cronbach's alpha internal consistency coefficient was 0.75 (Dölek, 2002). In the present study, the Cronbach's alpha coefficient was 0.76.

Statistical analysis

The data were analyzed using the IBM SPSS Statistics Standard Concurrent User Version 25 (IBM Corp., Armonk, New York, USA) software package. The data were presented in percentages (%), and mean and standard deviation ($\bar{x} \pm SD$). The Shapiro-Wilk test, histogram and Q-Q Plot were used to assess the normality of the data for numeric variables. Binary Logistic Regression models were used considering the independent variables of BMI status (obese, overweight, and normal weight children), age, grade level, gender, mother's education level, father's education level, mother's employment status, father's employment status, and academic performance from the previous year, which were the factors thought to affect children's experiences of being a victim, a bully, or a bully-victim. Independent variables were included in the model as univariate. The variables considered important in the univariate models were included in the multivariate models. Only the variable of grade level was included in the multivariate model because the variables of age and grade level that had strong correlations with each other in the three models were considered important. The Backward Wald Elimination method was used to determine the important variables in multivariate analyses. The $p < 0.10$ value was considered significant in the binary logistic regression analyses.

Simple Linear Regression Analysis was used to assess the independent variables of age, gender, grade level, academic performance, mother's education level, father's education level, mother's and father's employment status, economic status, status of living with parents, and reporting bullying, i.e. the factors which were thought to affect bullying. Categorical variables were analyzed as dummy variables. As a result of the Simple Linear Regression Analysis, the independent variables of age, gender, grade level, academic performance, mother's education level, father's education level, mother's and father's employment status, and reporting bullying were found to be significant and were included in the Backward Stepwise Multiple Linear Regression Analysis.

Results

Children's characteristics

Of the participants, 52.3% were male and 67.3% had good academic performance and received Certificate of Excellence, and their mean age was 12.3 ± 1.1 years. Of their mothers, 29.6% were high school graduates and 55.7% were unemployed. Of their fathers, 34.2% were university graduates and 7.9% were unemployed. The families of 69.6% of the participants had a good economic status.

Within the children's anthropometric characteristics, the characteristics of the case and control groups based on their status of being obese \overweight and normal weight were as follows: The weight, height, and BMI of the case group were 60.1 ± 10.9 kg, 154.9 ± 1.0 cm and 24.8 ± 2.3 (kg/m^2), respectively, while the weight, height and BMI of the control group were 44.7 ± 8.3 kg, 155.0 ± 1.1 cm and 18.4 ± 1.6 (kg/m^2), respectively.

The risk factors for being victims

Table 1 shows that age, grade level, gender, mother's education level, father's education level, and academic performance from the previous year influenced the victim based on the univariate analyses. These variables were included in the multivariate binary logistic regression model. Grade level, gender, and father's education level were found to be important in the final model. According to the multivariate analyses, 8th graders' risk of being a victim was 1.993 times higher compared with 5th graders, and boys' risk of being a victim was 1.495 times higher compared with girls. Considering grade level, children were exposed to threatening, physical victimization, verbal victimization, relational victimization, and attack on property ($p = 0.017$, $p = 0.021$, $p = 0.000$, $p = 0.000$, $p = 0.008$, respectively). Considering gender, boys were exposed to threatening, physical victimization, verbal victimization and attack on property ($p = 0.000$, $p = 0.000$, $p = 0.018$, $p = 0.001$, respectively). The risk of being a victim was 1.852 times higher among the participants whose fathers' education level was literate compared with those whose fathers were university graduates. The risk of being a victim was 1.541 (1/0.649) times lower among the participants whose fathers were high school graduates compared with those whose fathers were university graduates. Considering father's education level, children were exposed to threatening, physical victimization, attack on property, and social exclusion ($p = 0.040$, $p = 0.006$, $p = 0.002$, $p = 0.048$, respectively). It was found that bullying types did not differ between the groups according to weight, age, mother's education level, mother's and father's employment status and academic performance.

The risk factors for being bullies

Table 2 shows that according to the univariate analyses, age, grade level, gender, and academic performance from the previous year had an influence on bullies. These variables were included in the multivariate binary logistic regression model. Grade level and gender were found to be important in the final model. Of the participants, 7th graders' risk of being a bully was 1.556 times higher compared with that of 5th graders; 8th graders' risk of being a bully was 1.849 times higher compared with that of 5th graders; and boys' risk of being a bully was 2.106 times higher compared with that of girls. Considering grade level, children bullied in the forms of physical victimization and verbal victimization ($p = 0.008$, $p = 0.000$). Considering gender, male students bullied in the forms of threatening, physical victimization, verbal victimization, and relational victimization ($p = 0.000$, $p = 0.000$, $p = 0.009$, $p = 0.001$, respectively). Bullying types did not differ between groups according to weight, age, mother's education level, mother's and father's employment status and children's academic performances.

Table 1
The risk factors for being victims.

	Univariate analysis			Multivariate analysis		
	Odds ratio	95% CI for odds	p	Odds ratio	95% CI for odds	p
Constant	-	-	-	0.084	-	<0.001
Weight status						
Normal (Ref)						
Obese\overweight	1.269	0.944–1.706	0.115	-	-	-
Age						
11 (Ref)	-					
12	1.009	0.663–1.535	0.967			
13	1.378	0.918–2.067	0.122			
14	1.573	1.040–2.380	0.032			
Grade						
5th Grade (Ref)	-					
6th Grade	1.058	0.675–1.656	0.807	1.086	0.691–1.709	0.720
7th Grade	1.276	0.812–2.007	0.291	1.310	0.829–2.070	0.247
8th Grade	1.784	1.169–2.725	0.007	1.993	1.294–3.070	0.002
Gender						
Female (Ref)	-					
Male	1.512	1.119–2.044	0.007	1.495	1.100–2.031	0.010
Mother's educational status						
University (Ref)	-					
Illiterate	3.002	1.372–6.566	0.006			
Literate	1.567	0.769–3.191	0.216			
Primary school	1.430	0.946–2.161	0.089			
Middle school	0.930	0.553–1.562	0.782			
High school	0.982	0.647–1.490	0.932			
Father's educational status						
University (Ref)	-					
Illiterate	2.274	0.878–5.887	0.091	2.051	0.785–5.361	0.143
Literate	1.766	0.916–3.404	0.089	1.852	0.950–3.608	0.070
Primary school	1.291	0.843–1.977	0.241	1.304	0.848–2.005	0.226
Middle school	1.000	0.634–1.578	1.000	0.976	0.616–1.545	0.917
High school	0.667	0.448–0.992	0.046	0.649	0.435–0.969	0.034
Mother's employment status						
Nonemployee (Ref)	-					
Employee	1.120	0.834–1.506	0.451			
Father's employment status						
Nonemployee (Ref)	-					
Employee	0.984	0.571–1.697	0.954			
Academic success from the previous year						
Certificate of Excellence (Ref)	-					
Certificate of Merit	1.427	1.018–1.999	0.039			
Pass	1.751	1.019–3.009	0.043			
Conditional pass	2.771	1.222–6.283	0.015			

CI: Confidence Interval, Ref.: Reference category.

The risk factors for being bully-victims

Table 3 shows that according to the univariate analyses age, grade level, gender, mother's education level, father's education level, and academic performance from the previous year had an influence on the bully-victim experiences. These variables were included in the multivariate binary logistic regression model. Grade level, gender, and father's education level were found to be important in the final model. According to the multivariate analyses, 8th graders' risk of being a bully-victim was 1.918 times higher compared with that of 5th graders, and boys' risk of being a bully-victim was 1.801 times higher compared with that of girls. The risk of being a bully-victim was 1.712 (1/0.584) times lower among the participants whose fathers were high school graduates compared with those whose fathers were university graduates.

Obese\overweight children had lower mean scores on the Coping with Bullying Scale (obese\overweight: 73.6 ± 9.2 , normal weight: 74.7 ± 8.6 , $p = 0.005$) and the awareness of reporting bullying subscale (obese\overweight: 5.4 ± 1.7 , normal weight: 5.6 ± 1.7 , $p = 0.025$) compared with normal weight children. No differences were found between the groups' scores on the subscales of awareness of preventing bullying, resistance to bullying, awareness of asking for help, awareness of not remaining unresponsive, and awareness of self-defense ($p = 0.233$, $p = 0.118$, $p = 0.275$, $p = 0.381$, $p = 0.664$, respectively).

The factors that affect coping with bullying

Table 4 shows the final outcomes (final model). The coping score of the 5th graders was 2.131 points lower than that of the 8th graders. The score of the participants who received a Certificate of Excellence was 6.192 points higher than that of those who received a conditional pass. The score of the participants who received a Certificate of Merit was 2.909 points higher than that of those who received a conditional pass. The score of the participants whose fathers were illiterate was 3.054 points lower than that of those whose fathers were university graduates. The scores of the parents who were literate, middle school graduates, and high school graduates were 3.045, 1.557, and 1.303 points lower than those of the parents who were university graduates, respectively. A one-point increase in the reporting bullying score led to an increase of 2.234 points in the coping score.

Discussion

The study findings are discussed here under two subtitles: a) bullying and the coping strategies of obese\overweight and normal weight children, and b) the risk factors that affect bullying and coping with bullying.

Table 2
The risk factors for being bullies.

	Univariate analysis			Multivariate analysis		
	Odds ratio	95% CI for odds	p	Odds ratio	95% CI for odds	p
Constant	-	-	-	0.045	-	<0.001
Weight status						
Normal (Ref)	-			-		
Obese\overweight	1.098	0.777–1.553	0.596			
Age						
11 (Ref)	-			-		
12	1.243	0.751–2.056	0.398			
13	1.589	0.971–2.601	0.065			
14	1.985	1.213–3.246	0.006			
Grade						
5th Grade (Ref)	-			-		
6th Grade	0.890	0.513–1.545	0.679	0.883	0.508–1.535	0.659
7th Grade	1.564	0.932–2.624	0.090	1.556	0.925 – 2.617	0.095
8th Grade	1.760	1.067–2.902	0.027	1.849	1.118–3.058	0.017
Gender						
Female (Ref)	-			-		
Male	2.041	1.412–2.950	<0.001	2.106	1.454–3.051	<0.001
Mother's Educational Status						
University (Ref)	-			-		
Illiterate	1.941	0.709–5.314	0.197			
Literate	1.424	0.603–3.363	0.421			
Primary school	1.100	0.658–1.839	0.716			
Middle school	1.483	0.857–2.566	0.159			
High school	1.121	0.691–1.819	0.642			
Father's educational status						
University (Ref)	-			-		
Illiterate	2.136	0.704–6.481	0.180			
Literate	1.330	0.575–3.077	0.505			
Primary school	0.767	0.426–1.380	0.376			
Middle school	1.382	0.839–2.277	0.203			
High school	0.911	0.585–1.418	0.680			
Mother's employment status						
Nonemployee (Ref)	-			-		
Employee	1.099	0.777–1.555	0.594			
Father's employment status						
Nonemployee (Ref)	-			-		
Employee	1.445	0.692–3.019	0.328			
Academic success from the previous year						
Certificate of Excellence (Ref)	-			-		
Certificate of Merit	1.105	0.734–1.664	0.632			
Pass	1.357	0.701–2.627	0.365			
Conditional pass	2.631	1.058–6.543	0.037			

CI: Confidence Interval, Ref.: Reference category.

Bullying and the coping strategies of obese\overweight and normal weight children

Being obese or overweight can put children at risk for bullying. In the literature, being obese and overweight is generally associated with being a victim of traditional bullying. While some studies have reported that obese and overweight children were more likely to be bullied compared with their normal weight peers (Bacchini et al., 2015; Koyanagi et al., 2020; Lee et al., 2018; Lian et al., 2018; Van Geel et al., 2014; Waasdorp et al., 2018; Waasdorp et al., 2019; Wang et al., 2010), others have found that they were at a similar level of risk with their normal weight peers (Jeong et al., 2016; Kim et al., 2016; Liu et al., 2016). This study found no statistically significant difference between the two groups in terms of exposure to bullying. Children who do not have an ideal body type may experience prejudice, stigmatization, discrimination and weight-based bullying in the cultures and societies that generally attach great importance to having thin body types (Wang et al., 2010; Kim et al., 2016; Puhl et al., 2017; Kerr & Gini, 2017; Morales et al., 2019). This study's results suggest that weight-based discrimination and stigmatization among the children were not statistically significant, and that weight was not a cause of victimization.

Although most of the previous studies have focused on the victimization of overweight and obese children, some studies have addressed the possibility of them being perpetrators of bullying (Griffiths et al.,

2006; Janssen et al., 2004; Kim et al., 2016). Studies have reported that obese and overweight boys were more likely to bully compared with normal weight children (Griffiths et al., 2006; Janssen et al., 2004; Kim et al., 2016). However, while no relationship was found between BMI and bullying at the ages of 11 to 14, it was reported that 15–16-year-old obese students were more likely to bully compared with their normal weight peers (Griffiths et al., 2006; Janssen et al., 2004). Similarly, this study found no statistically significant difference between bullying by obese and overweight children and bullying by normal weight children at the ages 11 to 14.

Obese and overweight children may engage in aggressive behaviors as a coping strategy or a defense mechanism against being bullied, and they may both be bullied and bully (Jansen et al., 2014; Lee et al., 2018). The literature reports that obese and overweight children are more likely to bully or to be victims of bullying (Jansen et al., 2014; Lee et al., 2018; Bacchini et al., 2015; Rupp & McCoy, 2019); however, this study's findings are not consistent with these results. This study found no difference between the two groups in terms of bullying and coping strategies. This may be due to the culture of tolerance and the collectivist cultural structure of Turkey, and the fact that Turkey serves as a bridge between the cultural richness of Asia and Europe (Arisoy & Taş, 2020; Hofstede, 2001). These cultural characteristics may make children display less exclusionary behaviors to their friends with different characteristics or ignore their differences. Further studies that compare the

Table 3
The risk factors for being bully-victims.

	Univariate analysis			Multivariate analysis		
	Odds ratio	95% CI for odds	p	Odds ratio	95% CI for odds	p
Constant	-	-		0.086	-	<0.001
Weight status						
Normal (Ref)	-			-		-
Obese\overweight	1.178	0.881–1.576	0.268			
Age						
11 (Ref)	-			-		-
12	1.009	0.663–1.535	0.967			
13	1.469	0.983–2.193	0.060			
14	1.762	1.175–2.644	0.006			
Grade						
5th Grade (Ref)	-			-		
6th Grade	0.953	0.610–1.489	0.832	0.965	0.614–1.515	0.876
7th Grade	1.384	0.894–2.142	0.145	1.394	0.896–2.168	0.140
8th Grade	1.745	1.152–2.644	0.009	1.918	1.255–2.931	0.003
Gender						
Female (Ref)	-			-		
Male	1.787	1.322–2.416	<0.001	1.801	1.326–2.446	<0.001
Mother's educational status						
University (Ref)	-			-		-
Illiterate	2.278	1.022–5.075	0.044			
Literate	0.947	0.430–2.087	0.893			
Primary school	1.173	0.781–1.760	0.442			
Middle school	1.004	0.620–1.627	0.987			
High school	0.932	0.625–1.390	0.730			
Father's Educational Status						
University (Ref)	-			-		
Illiterate	2.038	0.789–5.264	0.141	1.760	0.674–4.595	0.249
Literate	1.291	0.647–2.575	0.469	1.300	0.644–2.623	0.464
Primary school	1.051	0.683–1.616	0.822	1.062	0.687–1.641	0.788
Middle school	1.106	0.722–1.696	0.643	1.087	0.705–1.674	0.707
High school	0.598	0.404–0.884	0.010	0.584	0.394–0.867	0.008
Mother's employment status						
Nonemployee (Ref)	-			-		-
Employee	1.178	0.881–1.575	0.268			
Father's employment status						
Nonemployee (Ref)	-			-		-
Employee	1.118	0.640–1.953	0.696			
Academic success from the previous year						
Certificate of Excellence (Ref)	-			-		-
Certificate of Merit	1.167	0.831–1.639	0.373			
Pass	1.453	0.839–2.517	0.183			
Conditional pass	2.462	1.088–5.571	0.031			

CI: Confidence Interval, Ref.: Reference category

effects of cultural differences on bullying are needed to make correct interpretations.

The risk factors that affect bullying and coping with bullying

There are several factors that affect bullying by children. Gender is one of them, regardless of weight. There are conflicting study results on the subject in the literature. Some studies have reported that girls are victimized more than boys (Goldbach et al., 2018; Sampasa-Kanyinga et al., 2016; Seo et al., 2017; Shaheen et al., 2018), while some have reported that boys are victimized more (Programme for International Student Assessment (PISA), 2018; Turner et al., 2018, Smith et al., 2019). Others have reported that boys perpetrate bullying more (Arslan et al., 2012; Atik & Güneri, 2013; Callaghan et al., 2015; Yang et al., 2013), while some others have found that boys are both the victims and the perpetrators of bullying (Caliskan et al., 2019; Mohseny et al., 2019). In the present study, the reason why males were more likely to be at risk of being exposed to bullying, being a bully, and being a bully-victims may be the patriarchal structure of Turkish culture and child-rearing attitudes (Arslan, Savaser, & Yazgan, 2011; Bedel & Güler, 2020). In Turkey, males are taught to be more independent, controlling, strong and authoritative, while girls are taught to be kind, gentle and accommodating. These ideas and the patriarchal structure have traditionally led to gender inequality, which is often an important factor in

reinforcing men's aggressive behaviors and violence (Global Gender Gap Report, 2020; World Health Organization, 2016b). On the other hand, bullying behaviors enable individuals to gain social dominance and popularity in peer groups, and aggression can be used by children to establish or maintain their dominance (Guy et al., 2019; Juvonen & Graham, 2014; Lee et al., 2017; Smith et al., 2019). Therefore, bullying can be both a reward and a source of motivation for men. Other studies have reported that men who are exposed to bullying tend to be more outgoing and aggressive (Bouffard & Koepfel, 2017; Le et al., 2019; Smith et al., 2019; Yang et al., 2013). Victimized males may be at risks of becoming bullies or victims and continuing the spiral of violence by creating a vicious circle of bullying among children.

Types of participation in bullying can also vary with gender. Females experience more emotional victimization and are generally exposed to verbal and relational bullying (Arslan et al., 2012; Jeong et al., 2016; Marengo et al., 2019). Males, on the other hand, are more likely to be exposed to physical, relational, verbal, cyber- and cultural-based bullying, intimidation, physical bullying, and attacks on personal belongings (Caliskan et al., 2019; Jeong et al., 2016; Marengo et al., 2019; Seo et al., 2017; Shaheen et al., 2018). In line with the literature, the present study found that the boys were exposed to intimidation, physical and verbal bullying, and attacks on personal belongings, and that they practiced intimidation, physical, verbal and relational bullying.

Individually, age and grade can be a risk or a protective factor for

Table 4
The factors that affect coping with bullying.

Model summary	$F=61.312, p<0.001, R^2=0.306, \text{Adjusted } R^2=0.301$			
	Unstandardized coefficient			
Variables	β	Std. error	t	p
Grade				
5th Grade	-2.131	0.528	-4.040	<0.001
6th Grade	-0.750	0.502	-1.495	0.135
7th Grade	0.616	0.528	1.168	0.243
8th Grade (Ref)	-			
Academic performance				
Certificate of Excellence	6.192	1.353	4.578	<0.001
Certificate of Merit	2.909	1.368	2.126	0.034
Pass	0.617	1.505	0.410	0.682
Conditional pass (Ref)	-			
Father's educational status				
Illiterate	-3.054	1.556	-1.963	0.049
Literate	-3.045	1.003	-3.035	0.002
Primary school graduate	-0.227	0.601	-0.378	0.705
Middle school graduate	-1.557	0.592	-2.630	0.009
High school graduate	-1.303	0.461	-2.827	0.005
University graduate (Ref)	-			
Reporting bullying	2.234	0.108	20.670	<0.001

Usage characteristics in Table 4 explained a significant proportion of variance in the name of the independent variable, $R^2 = 0.306, F = 61.312, p < 0.001, \beta$: standardized regression coefficient, Ref: Reference category

bullying. Some previous studies have reported that bullying rates are higher during the middle school years, and the rates of being exposed to bullying decreased toward the end of middle school (Ashrafi et al., 2020; Moon et al., 2016; Pervanidou et al., 2019; PISA, 2018; Shaheen et al., 2018). Other studies have found that the rates of victimization increase as age and grade level increased (Arslan et al., 2012; Atik & Güneri, 2013; Caliskan et al., 2019; Salmon et al., 2018; Turner et al., 2018). Marengo et al. (2019) found that age and verbal victimization were positively correlated with physical victimization. The present study found that age was not a factor in being exposed to bullying, being a bully, or being a bully-victim; however, grade level was an important factor in bullying participation and coping with bullying. In addition, the 8th grade students were at a higher risk of being exposed to bullying, being bullies, or being bully-victims than the 5th grade students. However, the 5th grade students' levels of coping with bullying were lower than those of the 8th grade students. Although the 5th graders were at a lower risk of being exposed to bullying, the transition from primary school to middle school was found to be a period when students are more vulnerable. These findings indicate the necessity of implementing programs related to coping with bullying, which should start in the 5th grade.

Another important factor associated with bullying is academic success. Low academic achievement can not only be a factor that poses a risk for exposure to and perpetrating bullying, but also be a result of bullying (Hemphill et al., 2012; Hemphill et al., 2014; PISA, 2018; Seo et al., 2017; Yang et al., 2013). A study of school life from the perspective of children conducted in Turkey reported that academic success was important, and that in terms of social acceptance, being unsuccessful leads children to feel ridiculous and embarrassed in front of their friends (Sarınsık & Duskun, 2016). Although it did not affect bullying participation in the present study, the high coping levels of the children with high academic success may be due to high social acceptance among their friends. These results suggest that programs for coping with bullying should be planned to increase the social acceptance of children with low academic success.

Parents' education levels are also associated with bullying and coping with bullying. They are reflected in children's socioeconomic statuses, behaviors and lifestyles. They can be a risk factor for bullying as well as a supportive factor for coping with bullying (Galal et al., 2019; Shaheen et al., 2018). Some studies have found that low maternal

education levels are associated with bullying and increase the risk of exposure to bullying (Caliskan et al., 2019; de Oliveira et al., 2015; Galal et al., 2019; Jansen et al., 2012; Mercan & Yildirim-Sari, 2018; Pervanidou et al., 2019); however, no difference was observed compared with parental education levels (Galal et al., 2019; Mercan & Yildirim-Sari, 2018; Pervanidou et al., 2019; Shaheen et al., 2018). The present study found that the role of fathers, who have at least as much of a role as mothers in the development of children, is important in being exposed to bullying, being a bully, being a bully-victim, and coping with bullying. The relevant literature reports that parents' democratic and tolerant attitudes toward their children are important in preventing them from being exposed to bullying and perpetrating bullying, and that parents display these attitudes more as their education levels increase (Gómez-Ortiz et al., 2019; Plexousakis et al., 2019). Other studies have found that as fathers' education levels increase, they become more concerned with their children, their empathy levels increase, and they establish better communication with their children. They also experience less conflict and display more democratic attitudes toward their children, and their children's emotional regulation skills increase (Flouri & Buchanan, 2003; Tezel-Şahin & Cevher, 2007; Nkwake, 2009; Dereci & Dereci, 2017; Liman, 2020). Considering the patriarchal nature of Turkish culture, increasing fathers' education levels may be a protective factor in children's being exposed to bullying, being a bully, being a bully-victim, and coping with bullying.

An important way of dealing with bullying is to share the experience with someone else because doing so reduces the likelihood of recurrence (Iossi Silva et al., 2013). However, although children who are bullied say that the experience is unpleasant, a vast majority of them do not seek help (Caliskan et al., 2019; Thomas et al., 2017). Therefore, children's awareness about bullying should be raised. In the present study, awareness of bullying was determined to be an important factor in coping with bullying.

This study found that BMI had no influence on bullying and coping with bullying but variables such as gender, grade level and father's educational status were important factors in bullying incidents. The fact that bullying types differed by gender contributes to literature, based on the finding that boys were exposed to and used other bullying types in addition to physical victimization compared with girls. In addition, variables such as gender, grade level, father's educational status, academic performance and consciousness of reporting bullying were reported to be important in coping with bullying.

Limitations

One limitation of this study is that it cannot be used to make causal inferences since it was conducted within a certain time frame. In addition, only children's self-reporting about bullying and coping with bullying were evaluated. The opinions of their parents and teachers could have also been included in the study. Both longitudinal and qualitative studies are needed to determine the true causal pathways between sociodemographic risk factors, bullying and coping with bullying. These studies should investigate the variables and mechanisms that explain the links between children's and parents' sociodemographic characteristics, bullying and coping with bullying. In particular, fathers' education levels and roles in bullying and coping with bullying should be explained. This information can serve as a guide for programs to help children with the issue of bullying. Another limitation of the study was that, although its findings indicated the importance of cultural differences in coping with bullying and bullying both for obese and overweight children and for normal weight children, it did not include any variables related to cultural characteristics. Cultural factors can be a protective factor against bullying for obese and overweight children. It should be determined which cultural features can serve as protective factors. Future studies should include variables related to the characteristics of the societies in which they are conducted and the relationships between them should be explained. Furthermore, multi-center

studies should be conducted to evaluate and compare the effects of different cultural characteristics on bullying for normal, obese and overweight children.

Implications for practice

This study provides valuable information about the factors associated with bullying and coping with bullying not only for nurses, but also for school counselors, school staff, students and parents. This study's findings show that bullying and coping with bullying are affected by factors other than weight. The male eighth graders and the children whose fathers' education levels were low were at risk of engaging in bullying. Fifth graders with low academic success and whose fathers' education levels were low were found to be at risk of coping with bullying. Nurses should take these factors into account when conducting risk screening and developing intervention programs for bullying and coping with bullying. The World Health Organization recommends INSPIRE strategies that it has developed based on evidence to prevent violence against children. Strategies for norms and values and strategies for parents and caregivers should be utilized (World Health Organization, 2016b). The norms and values of the society should be determined, and training programs should be developed.

Two findings are striking in this study: males are at risk of engaging in bullying, and paternal education is important in coping with bullying. Boys today are the fathers of the future, so emphasis should be placed on teaching them about gender equality, communication, problem solving and anger management. This can contribute to the prevention of all forms of violence, not just against bullying. Training programs for fathers should also be developed to prevent bullying. Finally, since school health nurses are not employed in schools in Turkey, establishing school health nursing will help nurses to reach and support children more readily.

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CRediT authorship contribution statement

NU: Conceptualization, Data curation, Formal analysis, Methodology, Writing – original draft. DE: Methodology, Writing – original draft.

Declaration of competing interest

There are no conflicts of interest.

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