

# What is the association between stopping cigarette smoking and life satisfaction or wellbeing? And specifically what can we expect if someone who is currently smoking manages to stop?

People who stop smoking can expect both immediate and long-lasting improvements in their mental wellbeing and overall life satisfaction.

## Abstract

Stopping cigarette smoking is linked with measurable improvements in mental wellbeing. Several studies report that, compared with continued smoking, abstinence is associated with lower depression scores (standardized mean differences of about  $-0.25$  to  $-0.30$ ) and reduced anxiety (standardized mean differences of approximately  $-0.28$  to  $-0.37$ ) observed as early as 6 weeks, with benefits persisting for 12 months or longer. Odds ratios for reduced mood disorders ( $0.24$ – $0.34$ ) and mean improvements on tools such as the SF-36 and Q-LES-Q-SF further support these findings.

Key observations include:

1. **Mental Health:** Across diverse study designs, quitting is associated with early and sustained improvements in depression and anxiety, as measured by various validated instruments.
2. **Quality of Life:** Smoking cessation is linked to gains in psychological and social quality of life (with standardized improvements up to  $0.40$ ), while enhancements in physical health domains may require several years to resemble those of never-smokers.

This evidence suggests that a smoker who stops can expect an improvement in mental wellbeing and life satisfaction soon after cessation, with many benefits enduring over time.

## Paper search

Using your research question "What is the association between stopping cigarette smoking and life satisfaction or wellbeing? And specifically what can we expect if someone who is currently smoking manages to stop?", we searched across over 126 million academic papers from the Semantic Scholar corpus. We retrieved the 500 papers most relevant to the query.

## Screening

We screened in papers that met these criteria:

- **Adult Population:** Were all study participants 18 years or older?
- **Smoking Status:** Did the study include participants who were regular cigarette smokers (1 cigarette/day) prior to cessation?
- **Complete Cessation:** Did the study examine complete cigarette smoking cessation (not just reduction or switching to alternatives)?
- **Outcome Measures:** Did the study use validated scales or instruments to measure life satisfaction, quality of life, or wellbeing?
- **Study Design:** Was the study design either a longitudinal study, cohort study, randomized controlled trial, or systematic review?
- **Follow-up Duration:** Did the study include a follow-up period of at least 3 months?

- **Psychological Measures:** Did the study include psychological or quality of life measures beyond just physical health outcomes?
- **General Population:** Was the study conducted in a general population rather than focusing exclusively on specific medical conditions or unique populations (e.g., only pregnant women, only psychiatric patients)?

We considered all screening questions together and made a holistic judgement about whether to screen in each paper.

## Data extraction

We asked a large language model to extract each data column below from each paper. We gave the model the extraction instructions shown below for each column.

- **Study Design:**

Identify the specific type of study design used. Look in the methods section for details. Possible designs include:

- Longitudinal observational study
- Systematic review/meta-analysis
- Prospective cohort study
- Cross-sectional study

If multiple design elements are present, list all. If unclear, note "design not clearly specified". Prioritize the primary design type used for data collection and analysis.

- **Participant Characteristics:**

Extract the following details about participants:

- Total sample size
- Age range or mean age
- Gender distribution (% male/female)
- Smoking status at baseline (current smokers, recent quitters, etc.)
- Any specific population characteristics (e.g., general population, clinical population)

If information is incomplete, note "partial information available". Use exact numbers or percentages when possible. If ranges are provided, include both minimum and maximum values.

- **Smoking Cessation Intervention:**

Describe the smoking cessation approach:

- Type of intervention (behavioral, pharmacological, combined)
- Specific methods used (e.g., counseling, nicotine replacement, bupropion)
- Duration of intervention
- Frequency of support or treatment

If multiple interventions were used, list all. If no specific intervention was described (e.g., in observational studies), note "no specific intervention described".

- **Life Satisfaction and Wellbeing Outcomes:**

Extract all measures related to life satisfaction or wellbeing:

- Specific instruments used (e.g., SF-36, quality of life questionnaires)
- Specific domains measured (mental health, physical health, emotional functioning)
- Timing of outcome measurements
- Key numerical results (means, standard deviations, effect sizes)

Prioritize outcomes directly measuring life satisfaction, quality of life, or psychological wellbeing. Include both statistical significance and effect size if reported.

• **Key Findings on Smoking Cessation:**

Summarize the primary findings related to smoking cessation and wellbeing:

- Changes in mental health measures
- Comparative results between smokers and non-smokers/quitters
- Statistical significance of findings
- Any notable effect sizes or confidence intervals

Focus on results directly addressing the association between stopping smoking and life satisfaction or wellbeing. Extract the most important quantitative findings.

## Results

### Characteristics of Included Studies

Study	Study Design	Population Size	Follow-up Duration	Quality of Life Measurement Tool	Full text retrieved
Taylor et al., 2021	Systematic review/meta-analysis	>169,500	6 weeks to years	Various (no mention found)	No
Taylor et al., 2014	Systematic review/meta-analysis; Longitudinal observational	26 studies	7 weeks–9 years	Various (no mention found)	Yes
Shields et al., 2013	Longitudinal observational	7,484	16 years	No mention found	No
Guitérrez-Bedmar et al., 2009	Prospective cohort	5,234	4 years	Short Form-36 Health Survey (SF-36)	Yes
Hays et al., 2012	Randomized Controlled Trial (longitudinal)	2,052	52 weeks	Smoking Cessation Quality of Life questionnaire	No

Study	Study Design	Population Size	Follow-up Duration	Quality of Life Measurement Tool	Full text retrieved
Sarna et al., 2008	Prospective cohort with cross-sectional	158,736	4, 8 years	SF-36 version 1	Yes
Hahad et al., 2022	Prospective cohort	15,010	5 years	Patient Health Questionnaire-9 (PHQ-9), Generalized Anxiety Disorder-2 (GAD-2)	No
Nagawa et al., 2024	Prospective cohort (secondary analysis)	986	6 months	Patient Health Questionnaire-8 (PHQ-8), Generalized Anxiety Disorder-7 (GAD-7)	No
Tomioka et al., 2014	Prospective cohort	277	12 weeks	St. George's Respiratory Questionnaire (SGRQ)	Yes
Taylor et al., "Change in Mental Health" Jain, 2014	Systematic review/meta-analysis	26 studies	7 weeks–9 years	Various (no mention found)	No
	Systematic review/meta-analysis	26 studies	7 weeks–9 years	Various (no mention found)	No
Lappan et al., 2018	Longitudinal observational	2,939–4,230	4 years	Satisfaction with Life Scale	Yes
Moayeri et al., 2021	Longitudinal observational	1,858	13 years	SF-36	No
Tillmann and Silcock, 1997	Cross-sectional	3,000	N/A	SF-36, EuroQol	No
Bloom et al., 2017	Randomized Controlled Trial (longitudinal)	61	12 months	Quality of Life Enjoyment and Satisfaction Questionnaire-Short Form (Q-LES-Q-SF)	Yes
Donald et al., 2013	Cross-sectional	34,653	N/A	No mention found	No
Sales et al., 2009	Prospective cohort	60	12 months	SF-36	No

Study	Study Design	Population Size	Follow-up Duration	Quality of Life Measurement Tool	Full text retrieved
Taylor et al., 2015	Prospective cohort (secondary analysis of RCTs)	937	12 months	SF-36 emotional well-being	Yes
Shahab et al., 2013	Prospective cohort	3,645	12 months	EuroQol-5 Dimension (EQ-5D)	Yes
Chen et al., 2015	Prospective cohort	3,514	12 months	EQ-5D-3L	Yes
Despoina et al., "Smoking Cessation Process"	Longitudinal observational	97	12 months	EQ-5D, EQ-Visual Analogue Scale (EQ-VAS)	Yes
Crabb et al., 2025	Systematic review/meta-analysis	62 studies (36,150)	6 weeks–4 years	Various (no mention found)	No
Song et al., 2018	Longitudinal observational (secondary analysis of RCT)	1,407	12 months	EQ-5D	Yes
Rodríguez-Cano et al., 2016	Prospective cohort	242	12 months	Beck Depression Inventory-II (BDI-II)	Yes
Majeed et al., 2024	Longitudinal observational	5,669	12 months	Perceived Quality of Life (no mention found)	No

Study design:

- Systematic reviews/meta-analyses:5 studies
  - Randomized Controlled Trials (RCTs, longitudinal):2 studies
  - Prospective cohort studies (including secondary analyses):10 studies
  - Longitudinal observational studies (including secondary analyses):7 studies
  - Cross-sectional studies:3 studies
- (Some studies are counted in more than one category if multiple designs were listed.)

Quality of life measurement tools:

- Short Form-36 Health Survey (SF-36, including version 1 and emotional well-being):6 studies

- EuroQol-5 Dimension (EQ-5D, including EQ-5D-3L and EQ-Visual Analogue Scale):4 studies (some studies used more than one EQ-5D variant)
- Patient Health Questionnaire-9 (PHQ-9):1 study
- Generalized Anxiety Disorder-2 (GAD-2):1 study
- Patient Health Questionnaire-8 (PHQ-8):1 study
- Generalized Anxiety Disorder-7 (GAD-7):1 study
- St. George's Respiratory Questionnaire (SGRQ):1 study
- Satisfaction with Life Scale:1 study
- EuroQol:1 study
- Quality of Life Enjoyment and Satisfaction Questionnaire-Short Form (Q-LES-Q-SF):1 study
- Smoking Cessation Quality of Life questionnaire:1 study
- Beck Depression Inventory-II (BDI-II):1 study
- Perceived Quality of Life (no mention found):1 study
- Various (no mention found):5 studies
- No mention found:2 studies

Population size:

- Individual studies:60 to 158,736 participants
- Systematic reviews:up to 169,500 participants or 62 studies

Follow-up duration:

- Individual studies:12 weeks to 16 years
- Systematic reviews:6 weeks to 9 years

We did not find a specified follow-up duration for 2 cross-sectional studies.

## Effects

### Mental Health Outcomes

Study	Depression Measures	Anxiety Measures	Effect Direction	Time to Effect
Taylor et al., 2021	Standardized mean difference (SMD) -0.30 (95% CI -0.39 to -0.21)	SMD -0.28 (95% CI -0.43 to -0.13)	Improvement	6 weeks
Taylor et al., 2014	SMD -0.25 (95% CI -0.37 to -0.12)	SMD -0.37 (95% CI -0.70 to -0.03)	Improvement	7 weeks–9 years
Shields et al., 2013	No mention found	No mention found	No mention found	5–20 years
Guitérrez-Bedmar et al., 2009	Improved role-emotional, mental health (SF-36)	No mention found	Improvement	4 years
Hays et al., 2012	Improved mental profile	Improved anxiety	Improvement	12–52 weeks

Study	Depression Measures	Anxiety Measures	Effect Direction	Time to Effect
Sarna et al., 2008	SF-36 Mental Component Score improved	No mention found	Small improvement	8 years
Hahad et al., 2022	PHQ-9: weak negative association	GAD-2: weak negative association	Weak improvement	5 years
Nagawa et al., 2024	PHQ-8: difference-in-improvement 2.43 (95% CI 1.50–3.36)	GAD-7: difference-in-improvement 3.04 (95% CI 2.16–3.93)	Improvement	6 months
Tomioka et al., 2014	No mention found	No mention found	No difference between quitters and smokers	12 weeks
Taylor et al., "Change in Mental Health"	SMD -0.25 (95% CI -0.37 to -0.12)	SMD -0.37 (95% CI -0.70 to -0.03)	Improvement	7 weeks–9 years
Jain, 2014	SMD -0.25 (95% CI -0.37 to -0.12)	SMD -0.37 (95% CI -0.70 to -0.03)	Improvement	7 weeks–9 years
Lappan et al., 2018	Life satisfaction: -0.25 (smoking→lower life satisfaction)	No mention found	Smoking reduces life satisfaction	4 years
Moayeri et al., 2021	Not significant	Not significant	No effect	13 years
Tillmann and Silcock, 1997	No mention found	No mention found	Small improvement	5 years
Bloom et al., 2017	Q-LES-Q-SF: higher in abstainers	No mention found	Improvement	3–12 months
Donald et al., 2013	Adjusted odds ratio (AOR) 0.64 (95% CI 0.50–0.82)	No mention found	Fewer mood disorders	N/A
Sales et al., 2009	SF-36: p=0.002 (mental health)	No mention found	Improvement	12 months
Taylor et al., 2015	Mean difference 4.5 (95% CI 0.6–8.5)	No mention found	Improvement	12 months
Shahab et al., 2013	Odds ratio (OR) 0.24–0.34 (depression)	No change	Improvement (depression only)	12 months
Chen et al., 2015	OR=0.61–0.65 (anxiety/depression)	OR=0.61–0.65	Improvement	6–12 months

Study	Depression Measures	Anxiety Measures	Effect Direction	Time to Effect
Despoina et al., "Smoking Cessation Process"	78.9% moderate anxiety/depression at 1 month, improved by 3 months	As left	Improvement	1–12 months
Crabb et al., 2025	SMD -0.21 (95% CI -0.27 to -0.16)	SMD -0.22 (95% CI -0.33 to -0.12)	Improvement	6 weeks–4 years
Song et al., 2018	30% vs 22% anxiety/depression (relapsers vs quitters)	As left	Relapse worsens	12 months
Rodríguez-Cano et al., 2016	BDI-II: abstainers improved, relapsers worsened	No mention found	Abstainers improved	12 months
Majeed et al., 2024	No mention found	No mention found	Better quality of life associated with higher abstinence	12 months

#### Depression Measures:

- Standardized mean difference (SMD) comparisons:5 studies
- Odds ratio (OR or AOR) comparisons:3 studies
- Mean difference (MD):1 study
- SF-36 mental health scale:3 studies
- Patient Health Questionnaire-9 (PHQ-9):1 study
- Patient Health Questionnaire-8 (PHQ-8):1 study
- Beck Depression Inventory-II (BDI-II):1 study
- Quality of Life Enjoyment and Satisfaction Questionnaire-Short Form (Q-LES-Q-SF):1 study
- Life satisfaction measure:1 study
- Qualitative or narrative improvement (including % improved):3 studies
- Report of "not significant":1 study
- No mention found:3 studies

#### Anxiety Measures:

- SMD comparisons:5 studies
- OR comparisons:1 study
- Generalized Anxiety Disorder-7 (GAD-7):1 study
- Generalized Anxiety Disorder-2 (GAD-2):1 study
- Qualitative or narrative improvement (including % improved):3 studies
- Report of "no change":1 study
- Report of "not significant":1 study
- No mention found:11 studies

#### Effect Direction:



- Improvement:14 studies
- Small or weak improvement:3 studies
- No effect or no difference:2 studies
- Relapse worsens:1 study
- Smoking reduces life satisfaction:1 study
- Fewer mood disorders:1 study
- Abstainers improved (relapsers worsened):1 study
- Better quality of life associated with higher abstinence:1 study
- No mention found:1 study

Time to Effect:

- Follow-up durations of 12 months:12 studies
- Follow-up durations of 4 years:7 studies
- Ranges (e.g., 7 weeks–9 years, 6 weeks–4 years):4 studies
- No mention found:1 study

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### Quality of Life Changes

Study	Quality of Life Domain	Measurement Tool	Effect Size	Time Frame
Taylor et al., 2021	Psychological quality of life, positive affect, social quality of life	No mention found	SMD 0.11–0.22	6 weeks
Taylor et al., 2014	Psychological quality of life, positive affect	No mention found	0.22–0.40	7 weeks–9 years
Shields et al., 2013	Health-Related Quality of Life (HRQL)	No mention found	No mention found	5–20 years
Guitérrez-Bedmar et al., 2009	SF-36 domains	SF-36	Significant improvement	4 years
Hays et al., 2012	Health transition, self-control, vitality	Smoking Cessation Quality of Life	Significant improvement	12–52 weeks
Sarna et al., 2008	SF-36 Physical Component Score, Mental Component Score	SF-36 version 1	Small improvement (Mental Component Score)	8 years
Hahad et al., 2022	No mention found	No mention found	No mention found	5 years
Nagawa et al., 2024	No mention found	No mention found	No mention found	6 months

Study	Quality of Life Domain	Measurement Tool	Effect Size	Time Frame
Tomioka et al., 2014	SGRQ total, symptoms, activity, impact	SGRQ	Change in total -5.1±12.2	12 weeks
Taylor et al., "Change in Mental Health"	Psychological quality of life, positive affect	No mention found	0.22–0.40	7 weeks–9 years
Jain, 2014	Psychological quality of life, positive affect	No mention found	0.22–0.40	7 weeks–9 years
Lappan et al., 2018	Life satisfaction	Satisfaction with Life Scale	-0.25 (smoking→lower life satisfaction)	4 years
Moayeri et al., 2021	Physical health, general health	SF-36	0.22–0.65	13 years
Tillmann and Silcock, 1997	SF-36, EuroQol	SF-36, EuroQol	Small improvement	5 years
Bloom et al., 2017	Total quality of life, physical health, well-being	Q-LES-Q-SF	p=0.02 (total), p=0.047 (well-being)	3–12 months
Donald et al., 2013	Physical, mental quality of life	No mention found	Beta=1.65 (physical), Beta=2.17 (mental)	N/A
Sales et al., 2009	Role-emotional, general health, vitality, mental health	SF-36	p=0.008–0.002	12 months
Taylor et al., 2015	Mental health (emotional well-being)	SF-36	Mean difference 4.5 (95% CI 0.6–8.5)	12 months
Shahab et al., 2013	EQ-5D	EQ-5D	0.76–0.82	12 months
Chen et al., 2015	EQ-5D-3L, EQ-VAS	EQ-5D-3L	OR=0.61–0.65 (anxiety/depression)	6–12 months
Despoina et al., "Smoking Cessation Process"	EQ-5D, EQ-VAS	EQ-5D, EQ-VAS	VAS: 65.36→70.52	1–12 months
Crabb et al., 2025	No mention found	No mention found	No mention found	6 weeks–4 years
Song et al., 2018	EQ-5D	EQ-5D	Change 0.0288 (quitters vs relapsers)	12 months
Rodríguez-Cano et al., 2016	No mention found	No mention found	No mention found	12 months

Study	Quality of Life Domain	Measurement Tool	Effect Size	Time Frame
Majeed et al., 2024	Perceived quality of life	No mention found	OR 1.95–3.33	12 months

#### Quality of Life Domains:

- Psychological quality of life or mental health outcomes:8 studies
- Physical health, vitality, or activity domains:9 studies
- General or total quality of life (including EQ-5D, SF-36 total, life satisfaction, or perceived quality of life):12 studies
- Social quality of life:1 study
- Health-Related Quality of Life (HRQL) and life satisfaction:1 study each
- No mention found:4 studies

#### Measurement Tools:

- SF-36 (any version):6 studies
- EQ-5D (including EQ-5D-3L and EQ-VAS):5 studies
- SGRQ, Q-LES-Q-SF, Satisfaction with Life Scale, Smoking Cessation Quality of Life:1 study each
- No mention found:11 studies

#### Effect Size/Direction:

- Standardized mean difference, mean difference, beta coefficient, or change values:10 studies
- p-values reported:3 studies
- Odds ratios:2 studies
- "Significant improvement":2 studies
- "Small improvement":2 studies
- No mention found:5 studies

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## Thematic Analysis

### Temporal Patterns of Wellbeing

- Short-term improvements:Several studies reported that improvements in mental health and quality of life were observed as early as 6 weeks after stopping smoking and persisted for years.
- Long-term equivalence:Some studies (Shields et al., 2013; Sarna et al., 2008) reported that equivalence with never-smokers in health-related quality of life may take 5–20 years, especially for physical health domains.
- Consistency in mental health:Short-term improvements were more consistently reported in mental health and psychological wellbeing than in physical health.

### Sustainability of Benefits

- Persistence of benefits:Most studies reported that improvements in mental health and quality of life persisted at 12 months and beyond.

- Post-cessation changes: One study (Despoina et al., "Smoking Cessation Process") reported that perceived quality of life may decline slightly after the initial post-cessation period, but remained above baseline.
- Relapse effects: Relapse to smoking was associated with a deterioration in quality of life, particularly in anxiety and depression domains (Song et al., 2018; Rodríguez-Cano et al., 2016).

### Differential Effects by Population

- Across populations: Reported benefits of stopping smoking on wellbeing were observed across general, clinical, and special populations (including women, older adults, and hospital patients).
- Psychiatric comorbidity: Systematic reviews (Taylor et al., 2014; Taylor et al., 2021) reported that effect sizes were similar in those with and without psychiatric disorders.
- Older/long-term smokers: Some studies (Moayeri et al., 2021; Sarna et al., 2008) reported that long-term or older smokers may experience less pronounced improvements, particularly in physical health domains.
- Socio-economic factors: One study (Tillmann and Silcock, 1997) reported that socio-economic factors may influence the magnitude of benefit.

## References

- A. Jain. "Change in Mental Health After Smoking Cessation: Systematic Review and Meta-Analysis." *British Medical Journal*, 2014.
- Amy Bethan Crabb, Jennifer Allen, and Gemma Taylor. "What If I Fail? Unsuccessful Smoking Cessation Attempts and Symptoms of Depression and Anxiety: A Systematic Review and Meta-Analysis." *BMJ Open*, 2025.
- Ban Majeed, Bekir Kaplan, Justin Ketchum, and David Walsh. "Abstract 4143925: Cigar Smoking and Better Quality of Life Positively Impact Cigarette Smoking Cessation in Adults: Findings from the Population Assessment of Tobacco and Health Study, a National Longitudinal Cohort Study." *Circulation*, 2024.
- Catherine S. Nagawa, N. Rigotti, Yuchiao Chang, D. Levy, Joanna M Streck, Thomas E Ylloja, Scott S. Lee, and Hilary A Tindle. "Association Between Smoking Abstinence and Depression and Anxiety Symptoms After Hospital Discharge: The Helping HAND 4 Trial." *Journal of Addiction Medicine*, 2024.
- E. Bloom, Haruka Minami, Richard A. Brown, D. Strong, D. Riebe, and A. Abrantes. "Quality of Life After Quitting Smoking and Initiating Aerobic Exercise." *Psychology, Health & Medicine*, 2017.
- F. Song, M. Bachmann, P. Aveyard, G. Barton, T. Brown, V. Maskrey, Annie Blyth, et al. "Relapse to Smoking and Health-Related Quality of Life: Secondary Analysis of Data from a Study of Smoking Relapse Prevention." *PLoS ONE*, 2018.
- Foruhar Moayeri, Y. Hsueh, D. Dunt, and P. Clarke. "Smoking Cessation and Quality of Life: Insights From Analysis of Longitudinal Australian Data, an Application for Economic Evaluations." *Value in Health*, 2021.
- G. Taylor, Alan Farley Ann Girling, and Amanda Lindson-Hawley. "Change in Mental Health After Smoking Cessation," 2014.
- Gemma M J Taylor, N. Lindson, A. Farley, Andrea Leinberger-Jabari, K. Sawyer, Rebecca Te Water Naudé, Annika Theodoulou, Naomi King, C. Burke, and P. Aveyard. "Smoking Cessation for Improving Mental Health." *Cochrane Database of Systematic Reviews*, 2021.
- Gemma Taylor, A. Girling, A. McNeill, and P. Aveyard. "Does Smoking Cessation Result in Improved

- Mental Health? A Comparison of Regression Modelling and Propensity Score Matching.” *BMJ Open*, 2015.
- Gemma Taylor, A. McNeill, A. Girling, A. Farley, Nicola Lindson-Hawley, and P. Aveyard. “Change in Mental Health After Smoking Cessation: Systematic Review and Meta-Analysis.” *British Medical Journal*, 2014.
- H. Tomioka, Reina Sekiya, C. Nishio, and Gakuji Ishimoto. “Impact of Smoking Cessation Therapy on Health-Related Quality of Life.” *BMJ Open Respiratory Research*, 2014.
- Hatzilia Despoina, Malliarou Maria, Korompeli Anna, T. Konstantinos, and Fildissis George. “Smoking Cessation Process and Quality of Life,” 2017.
- J. Hays, I. Croghan, C. Baker, J. Cappelleri, and A. Bushmakina. “Changes in Health-Related Quality of Life with Smoking Cessation Treatment.” *European Journal of Public Health*, 2012.
- L. Sarna, S. Bialous, M. Cooley, Hee-Jin Jun, and D. Feskanich. “Impact of Smoking and Smoking Cessation on Health-Related Quality of Life in Women in the Nurses’ Health Study.” *Quality of Life Research*, 2008.
- L. Shahab, S. Andrew, and R. West. “Changes in Prevalence of Depression and Anxiety Following Smoking Cessation: Results from an International Cohort Study (ATTEMPT).” *Psychological Medicine*, 2013.
- M. P. Sales, Maria Irenilza Oliveira, Isabela Melo Mattos, C. M. S. Viana, and E. D. Pereira. “The Impact of Smoking Cessation on Patient Quality of Life.” *Jornal Brasileiro de Pneumologia*, 2009.
- M. Shields, R. Garner, and K. Wilkins. “Dynamics of Smoking Cessation and Health-Related Quality of Life Among Canadians.” *Health Reports*, 2013.
- Maria Tillmann, and J. Silcock. “A Comparison of Smokers’ and Ex-Smokers’ Health-Related Quality of Life.” *Journal of Public Health Medicine*, 1997.
- Mario Guitérrez-Bedmar, M. Seguí-Gómez, E. Gómez-Gracia, M. Bes-Rastrollo, and M. Martínez-González. “Smoking Status, Changes in Smoking Status and Health-Related Quality of Life: Findings from the SUN (“Seguimiento Universidad de Navarra”) Cohort.” *International Journal of Environmental Research and Public Health*, 2009.
- O. Hahad, M. Beutel, D. Gilan, M. Michal, A. Schulz, N. Pfeiffer, J. König, et al. “The Association of Smoking and Smoking Cessation with Prevalent and Incident Symptoms of Depression, Anxiety, and Sleep Disturbance in the General Population.” *Journal of Affective Disorders*, 2022.
- Pei-Ching Chen, R. Kuo, Chih-Kuan Lai, S. Tsai, and Yue-chune Lee. “The Relationship Between Smoking Status and Health-Related Quality of Life Among Smokers Who Participated in a 1-Year Smoking Cessation Programme in Taiwan: A Cohort Study Using the EQ-5D.” *BMJ Open*, 2015.
- Rubén Rodríguez-Cano, A. López-Durán, Elena Fernández del Río, C. Martínez-Vispo, Ú. Martínez, and E. Becoña. “Smoking Cessation and Depressive Symptoms at 1-, 3-, 6-, and 12-Months Follow-up.” *Journal of Affective Disorders*, 2016.
- S. Donald, H. Chartrand, and J. Bolton. “The Relationship Between Nicotine Cessation and Mental Disorders in a Nationally Representative Sample.” *Journal of Psychiatric Research*, 2013.
- Sara N. Lappan, Christopher B. Thorne, Dustin M. Long, and P. Hendricks. “Longitudinal and Reciprocal Relationships Between Psychological Well-Being and Smoking.” *Nicotine & Tobacco Research*, 2018.