

[Home](#)[Journals](#)[Books](#)[Conferences](#)[News](#)[About Us](#)[Jobs](#)[Home](#) > [Journal](#) > [Social Sciences & Humanities](#) > [SM](#)[Indexing](#) [View Papers](#) [Aims & Scope](#) [Editorial Board](#) [Guideline](#) [Article Processing Charges](#)[SM](#) > Vol.3 No.2, April 2013[Open Access](#)

## Social-Environmental Factors and Suicide Mortality: A Narrative Review of over 200 Articles

PDF (Size: 143KB) PP. 137-148 DOI: [10.4236/sm.2013.32021](https://doi.org/10.4236/sm.2013.32021)

### Author(s)

Allison Milner, Heidi Hjelmeland, Ella Arensman, Diego De Leo

### ABSTRACT

Suicide mortality in a population has long been thought to be sensitive to social, economic and cultural contexts. This review examined research on the relationship between social-environmental variables and suicide mortality published over a ten-year period. The main areas covered in the review included: the economy and income, unemployment, relationship status, fertility and birth rates, female participation in the workforce, religion, migration, location of residence, modernisation, media reporting, alcohol, and access to suicide methods. Results of the review indicated that rates of suicide mortality (deaths per 100,000 in a population) were sensitive to a wide range of social factors. There were relatively stable associations noted between divorce and unemployment with suicide mortality, while many of the reported associations between suicide mortality and other social variables (such as religion, fertility and female participation in the workforce) were influenced by contextual factors and time. These findings indicate the importance of considering the relationship between social factors and suicide as dynamic phenomena.

### KEYWORDS

Suicide; Social Factors; Economic Factors; Review; Durkheim; Suicide Prevention

### Cite this paper

Milner, A. , Hjelmeland, H. , Arensman, E. & Leo, D. (2013). Social-Environmental Factors and Suicide Mortality: A Narrative Review of over 200 Articles. *Sociology Mind*, 3, 137-148. doi: [10.4236/sm.2013.32021](https://doi.org/10.4236/sm.2013.32021).

### References

- [1] Abe, R., Shiriri, T., Nishinura, A., Nushida, H., Ueno, Y., Kojima, M., Kitamura, H., Akazawa, K., & Someya, T. (2004). Economic slump and suicide method: Preliminary study in Kobe. *Psychiatry and Clinical Neuroscience*, 58, 213-216. doi: [10.1111/j.1440-1819.2003.01219.x](https://doi.org/10.1111/j.1440-1819.2003.01219.x)
- [2] Agerbo, E. (2003). Unemployment and suicide. *Journal of Epidemiology and Community Health*, 57, 560-561. doi: [10.1136/jech.57.8.560](https://doi.org/10.1136/jech.57.8.560)
- [3] Ajdacic-Gross, V., Gadola, E., Lauber, C., Bopp, M., Gutzwiller, F., & Rossler, W. (2007). Being widowed—A high risk period for suicide. *European Psychiatry*, 22, S146. doi: [10.1016/j.eurpsy.2007.01.471](https://doi.org/10.1016/j.eurpsy.2007.01.471)
- [4] Ajdacic-Gross, V., Weiss, M. G., Ring, M., Hepp, U., Bopp, M., Gutzwiller, F., & Rossler, W. (2008). Methods of suicide: International suicide patterns derived from the WHO mortality database. *Bulletin of the World Health Organization*, 86, 726-732. doi: [10.2471/BLT.07.043489](https://doi.org/10.2471/BLT.07.043489)
- [5] Aliverdinia, A., & Pridemore, W. A. (2009). Women' s fatalistic suicide in Iran: A partial test of Durkheim in an Islamic Republic. *Violence Against Women*, 15, 307-320. doi: [10.1177/1077801208330434](https://doi.org/10.1177/1077801208330434)
- [6] Alston, M. (2010). Rural male suicide in Australia. *Social Science & Medicine*, 74, 515-522. doi: [10.1016/j.socscimed.2010.04.036](https://doi.org/10.1016/j.socscimed.2010.04.036)
- [7] Andres, A. R., & Halicioglu, F. (2010). Determinants of suicides in Denmark: Evidence from time series data. *Health Policy*, 98, 263-269. doi: [10.1016/j.healthpol.2010.06.023](https://doi.org/10.1016/j.healthpol.2010.06.023)

[SM Subscription](#)[Free Newsletter Subscription](#)[Most popular papers in SM](#)[Publication Ethics Statement](#)[About SM News](#)[Frequently Asked Questions](#)[Recommend to Peers](#)[Recommend to Library](#)[Contact Us](#)

Downloads: 84,055

Visits: 266,811

### Sponsors, Associates, and Links >>

- [Conference on Psychology and Social Harmony \(CPSH 2014\), May 15-16, 2014, Suzhou, China](#)

- [8] Austin, R. L., Bologna, M., & Hayama Dodge, H. (1992). Sex-role change, anomie, and female suicide: A test of alternative Durkheimian explanations. *Suicide & Life-Threatening Behavior*, 22, 197-225.
- [9] Babones, S. J. (2008). Income inequality and population health: Correlation and causality. *Social Science & Medicine*, 66, 1614-1626. doi:10.1016/j.socscimed.2007.12.012
- [10] Baller, R. D., Levchak, P., & Schultz, M. (2010). "The great transformation" and suicide: Local and long-lasting effects of 1930 bank suspensions. *Suicide & Life-Threatening Behavior*, 40, 574-586. doi:10.1521/suli.2010.40.6.574
- [11] Baller, R. D., & Richardson, K. K. (2002). Social integration, imitation, and the geographic patterning of suicide. *American Sociological Review*, 67, 873-888. doi:10.2307/3088974
- [12] Barstad, A. (2008). Explaining changing suicide rates in Norway 1948-2004: The role of social integration. *Social Indicators Research*, 87, 47-64. doi:10.1007/s11205-007-9155-x
- [13] Beautrais, A. L., Fergusson, D. M., & Horwood, L. J. (2005). Firearms legislation and reductions in firearm-related suicide deaths in New Zealand. *Australian and New Zealand Journal of Psychiatry*, 40, 253-259. doi:10.1080/j.1440-1614.2006.01782.x
- [14] Berk, M., Dodd, S., & Henry, M. (2006). The effect of macroeconomic variables on suicide. *Psychological Medicine*, 36, 181-189. doi:10.1017/S0033291705006665
- [15] Bertolote, J. M., Fleischmann, A., De Leo, D., & Wasserman, D. (2004). Psychiatric diagnoses and suicide: Revisiting the evidence. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 25, 147-155. doi:10.1027/0227-5910.25.4.147
- [16] Bhandarkar, R., & Shah, A. (2008). Association of general population suicide rates with fertility rates: A test of fertility as a measure of social integration. *Psychological Reports*, 103, 812-818. doi:10.2466/pr0.103.3.812-818
- [17] Blakely, T., Collings, S. C. D., & Atkinson, J. (2003). Unemployment and suicide. Evidence for a causal association? *Journal of Epidemiology and Community Health*, 57, 594-600. doi:10.1136/jech.57.8.594
- [18] Bloomfield, K., Stockwell, T., Gmel, G., & Rehn, N. (2003). International comparisons of alcohol consumption. *Alcohol Research & Health*, 27, 95-110.
- [19] Brainerd, E. (2001). Economic reform and mortality in the former Soviet Union: A study of the suicide epidemic in the 1990s. *European Economic Review*, 45, 1007-1019. doi:10.1016/S0014-2921(01)00108-8
- [20] Burr, J. A., McCall, P. L., & Powell-Griner, E. (1997). Female labor force participation and suicide. *Social Science & Medicine*, 44, 1847-1859. doi:10.1016/S0277-9536(96)00294-8
- [21] Burvill, P. W. (1998). Migrant suicide rates in Australia and in country of birth. *Psychological Medicine*, 28, 201-208. doi:10.1017/S0033291797005850
- [22] Caldwell, T. M., Jorm, A. F., & Dear, K. B. (2004). Suicide and mental health in rural, remote and metropolitan areas in Australia. *Medical Journal of Australia*, 181, S10-S14.
- [23] Chan, W. S., Yip, P. S., Wong, P. W., & Chen, E. Y. (2007). Suicide and unemployment: What are the missing links? *Archives of Suicide Research*, 11, 327-335. doi:10.1080/13811110701541905
- [24] Chang, S.-S., Gunnell, D., Wheeler, B. W., Yip, P., & Sterne, J. A. C. (2010). The evolution of the epidemic of charcoal-burning suicide in Taiwan: A spatial and temporal analysis. *PLoS Medicine*, 7, e1000212. doi:10.1371/journal.pmed.1000212
- [25] Chang, S. S., Gunnell, D., Sterne, J. A., Lu, T. H., & Cheng, A. T. (2009). Was the economic crisis 1997-1998 responsible for rising suicide rates in East/Southeast Asia? A time-trend analysis for Japan, Hong Kong, South Korea, Taiwan, Singapore and Thailand. *Social Science & Medicine*, 68, 1322-1331. doi:10.1016/j.socscimed.2009.01.010
- [26] Chang, S. S., Sterne, J. A., Wheeler, B. W., Lu, T. H., Lin, J. J., & Gunnell, D. (2011). Geography of suicide in Taiwan: Spatial patterning and socioeconomic correlates. *Health and Place*, 17, 641-650. doi:10.1016/j.healthplace.2011.01.003
- [27] Chang, S. S., Sterne, J. A. C., Huang, W. C., Chuang, H. L., & Gunnell, D. (2010). Association of secular trends in unemployment with suicide in Taiwan, 1959-2007: A time-series analysis. *Public Health*, 124, 49-54. doi:10.1016/j.puhe.2009.11.005

- [28] Chen, Y.-Y., Yip, P. S., Lee, C., Fan, H.-F., & Fu, K.-W. (2010). Economic fluctuations and suicide: A comparison of Taiwan and Hong Kong. *Social Science and Medicine*, 71, 2083-2090. doi:10.1016/j.socscimed.2010.09.043
- [29] Chen, Y. Y., Chen, F., & Yip, P. S. (2011). The impact of media reporting of suicide on actual suicides in Taiwan, 2002-05. *Journal of Epidemiology and Community Health*, 65, 934-940. doi:10.1136/jech.2010.117903
- [30] Cheng, A. T., Hawton, K., Chen, T. H., Yen, A. M., Chang, J. C., Chong, M. Y., et al. (2007). The influence of media reporting of a celebrity suicide on suicidal behavior in patients with a history of depressive disorder. *Journal of Affective Disorders*, 103, 69-75. doi:10.1016/j.jad.2007.01.021
- [31] Cheng, A. T., Hawton, K., Lee, C. T., & Chen, T. H. (2007). The influence of media reporting of the suicide of a celebrity on suicide rates: A population-based study. *International Journal of Epidemiology*, 36, 1229-1234. doi:10.1093/ije/dym196
- [32] Chuang, H.-L., & Huang, W.-C. (2007). A re-examination of the suicide rates in Taiwan. *Social Indicators Research*, 83, 465-485.
- [33] Clarke, C. S., Bannon, F. J., & Denihan, A. (2003). Suicide and religiosity—Masaryk' s theory revisited. *Social Psychiatry and Psychiatric Epidemiology*, 38, 502-506. doi:10.1007/s00127-003-0668-6
- [34] Cleary, A., & Brannick, T. (2007). Suicide and changing values and beliefs in Ireland. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 28, 82-88. doi:10.1027/0227-5910.28.2.82
- [35] Colucci, E., & Martin, G. (2008). Religion and spirituality along the suicidal path. *Suicide & Life-Threatening Behavior*, 38, 229-244. doi:10.1521/suli.2008.38.2.229
- [36] Corcoran, P. (2009). The impact of widowhood on Irish mortality due to suicide and accidents. *European Journal of Public Health*, 19, 583-585. doi:10.1093/eurpub/ckp166
- [37] Corcoran, P., & Arensman, E. (2011). Suicide and employment status during Ireland' s Celtic Tiger economy. *The European Journal of Public Health*, 21, 209-214. doi:10.1093/eurpub/ckp236
- [38] Corcoran, P., & Nagar, A. (2010). Suicide and marital status in Northern Ireland. *Social Psychiatry and Psychiatric Epidemiology*, 45, 795-800. doi:10.1007/s00127-009-0120-7
- [39] Crawford, M. J., & Prince, M. (1999). Increasing rates of suicide in young men in England during the 1980s: The importance of social context. *Social Science & Medicine*, 49, 1419-1423. doi:10.1016/S0277-9536(99)00213-0
- [40] Cutright, P., & Fernquist, R. M. (2001a). Effects of societal integration, period, region, and culture of suicide on male age-specific suicide rates: 20 developed countries, 1955-1989. *Social Science Research*, 29, 148-172. doi:10.1006/ssre.1999.0658
- [41] Cutright, P., & Fernquist, R. M. (2001b). The relative gender gap in suicide: Societal integration, the culture of suicide, and period effects in 20 developed countries, 1955-1994. *Social Science Research*, 30, 76-99. doi:10.1006/ssre.2000.0691
- [42] Cutright, P., & Fernquist, R. M. (2004). The culture of suicide through societal integration and religion: 1996-1998 gender-specific suicide rates in 50 American states. *Archives of Suicide Research*, 8, 271-285. doi:10.1080/13811110490436936
- [43] Cutright, P., & Fernquist, R. M. (2007). Three explanations of marital status differences in suicide rates: Social integration, marital status integration, and the culture of suicide. *Omega: Journal of Death and Dying*, 56, 175-190. doi:10.2190/OM.56.2.c
- [44] Cutright, P., Stack, S., & Ferquist, R. (2007). Marital status integration, suicide disapproval, and societal integration as explanations of marital status differences in female age-specific suicide rates. *Suicide & Life-Threatening Behavior*, 37, 715-724. doi:10.1521/suli.2007.37.6.715
- [45] Daigle, M. S. (2005). Suicide prevention through means restriction: Assessing the risk of substitution—A critical review and synthesis. *Accident Analysis and Prevention*, 37, 625-632. doi:10.1016/j.aap.2005.03.004
- [46] Daly, M. C., & Wilson, D. J. (2009). Happiness, unhappiness and suicide: An empirical assessment. *Journal of the European Economic Association*, 7, 539-549. doi:10.1162/JEEA.2009.7.2-3.539
- [47] Davis, R. A. (1981). Female labor force participation, status integration and suicide, 1950-1969. *Suicide & Life-Threatening Behavior*, 11, 111-123.

- [48] De Leo, D., Dwyer, J., Firman, D., & Neulinger, K. (2003). Trends in hanging and firearm suicide rates in Australia: Substitution of method? *Suicide & Life-Threatening Behavior*, 33, 151-164. doi:10.1521/suli.33.2.151.22775
- [49] De Leo, D., Evans, R., & Neulinger, K. (2002). Hanging, firearm, and non-domestic gas suicides among males: A comparative study. *Australian and New Zealand Journal of Psychiatry*, 36, 183-189. doi:10.1046/j.1440-1614.2001.01013.x
- [50] De Leo, D., Milner, A., & Svetcic, J. (2012). Mental disorders and communication of intent to die in suicide cases of Indigenous people of Queensland, Australia. *Suicide & Life-Threatening Behavior*, 42, 136-146. doi:10.1111/j.1943-278X.2011.00077.x
- [51] De Vogli, R., & Gimeno, D. (2009). Changes in income inequality and suicide rates after " shock therapy" : Evidence from Eastern Europe. *Journal of Epidemiology and Community Health*, 63, 956. doi:10.1136/jech.2008.084079
- [52] Denney, J. T., Rogers, R. G., Krueger, P. M., & Wadsworth, T. (2009). Adult suicide mortality in the United States: Marital status, family size, socioeconomic status, and differences by sex. *Social Science Quarterly*, 90, 1167-1185. doi:10.1111/j.1540-6237.2009.00652.x
- [53] Dudley, M. J., Kelk, N. J., Florio, T. M., Howard, J. P., & Waters, B. G. H. (1998). Suicide among young Australians, 1964-1993: An interstate comparison of metropolitan and rural trends. *Medical Journal of Australia*, 169, 77-80.
- [54] Durkheim, E. (1897). *Suicide, a study in sociology* (1951 Edition, J. A. Spaulding, & G. Simpson, Trans.). London: Routledge.
- [55] Easterlin, R. A. (1974). Does economic growth improve the human lot? In P. A. David, & M. W. Reder (Eds.), *Nations and Households in Economic Growth: Essays in Honour of Moses Abramovitz* (pp. 89-125). New York: Academic Press Inc.
- [56] Ellis, I. K., & Philip, T. (2010). Improving the skills of rural and remote generalists to manage mental health emergencies. *Rural and Remote Health*, 10, 1503.
- [57] Ellison, C. G., Burr, J. A., & McCall, P. L. (1997). Religious homogeneity and metropolitan suicide rates. *Social Forces*, 76, 273-299.
- [58] Faria, N. M., Victora, C. G., Meneghel, S. N., De Carvalho, L. A., & Falk, J. W. (2006). Suicide rates in the State of Rio Grande do Sul, Brazil: Association with socioeconomic, cultural, and agricultural factors. *Cadernos de Saúde Pública*, 22, 2611-2621. doi:10.1590/S0102-311X2006001200011
- [59] Fernquist, R. M. (1999). Gender equality and the sex differential in suicide rates using gender-age standardized data. *Archives of Suicide Research*, 5, 255-260. doi:10.1080/13811119908258336
- [60] Fernquist, R. M. (2003). Perceived income inequality and suicide rates in Central/Eastern European countries and Western countries, 1990-1993. *Death Studies*, 27, 63-80. doi:10.1080/07481180302870
- [61] Fernquist, R. M. (2007). How do Durkheimian variables impact variation in National suicide rates when proxies for depression and alcoholism are controlled? *Archives of Suicide Research*, 11, 361-374. doi:10.1080/13811110600897226
- [62] Fernquist, R. M., & Cutright, P. (1998). Societal integration and age-standardized suicide rates in 21 developed countries, 1955-1989. *Social Science and Research*, 27, 109-127. doi:10.1006/ssre.1998.0615
- [63] Ferrada-Noli, M. (2007). A cross-cultural breakdown of Swedish suicide. *Acta Psychiatrica Scandinavica*, 96, 108-116. doi:10.1111/j.1600-0447.1997.tb09914.x
- [64] Fu, K. W., Chan, Y. Y., & Yip, P. S. (2011). Newspaper reporting of suicides in Hong Kong, Taiwan and Guangzhou: Compliance with WHO media guidelines and epidemiological comparisons. *Journal of Epidemiology & Community Health*, 65, 928-933. doi:10.1136/jech.2009.105650
- [65] Fu, K. W., & Yip, P. S. (2007). Long-term impact of celebrity suicide on suicidal ideation: Results from a population-based study. *Journal of Epidemiological and Community Health*, 61, 540-546. doi:10.1136/jech.2005.045005
- [66] Gartner, A., Farewell, D., Roach, P., & Dunstan, F. (2011). Rural/urban mortality differences in England and Wales and the effect of deprivation adjustment. *Social Science & Medicine*, 72, 1685-

- [67] Gearing, R. E., & Lizardi, D. (2009). Religion and suicide. *Journal of Religion and Health*, 48, 332-341. doi: 10.1007/s10943-008-9181-2
- [68] Gould, M. S. (2001). Suicide and the media. *Annals of the New York Academy of Sciences*, 932, 200-221.
- [69] Graeff, P., & Mehlkop, G. (2007). When anomie becomes a reason for suicide: A new macro-sociological approach in the durkheimian tradition. *European Sociological Review*, 23, 521-535. doi: 10.1093/esr/jcm020
- [70] Graham, C., & Pettinato, S. (2002). Frustrated Achievers: Winners, Losers and subjective well-being in new market economies. *Journal of Development Studies*, 38, 100-140. doi: 10.1080/00220380412331322431
- [71] Griffiths, C., Ladva, G., Brock, A., & Baker, A. (2008). Trends in suicide by marital status in England and Wales, 1982-2005. *Health Statistics Quarterly*, 37, 8-14.
- [72] Gunnell, D., Middleton, N., Whitley, E., Dorling, D., & Frankel, S. (2003). Why are suicide rates rising in young men but falling in the elderly? A time-series analysis of trends in England and Wales 1950-1998. *Social Science & Medicine*, 57, 595-611. doi: 10.1016/S0277-9536(02)00408-2
- [73] Hagihara, A., Tarumi, K., & Abe, T. (2007). Media suicide-reports, internet use and the occurrence of suicides between 1987 and 2005 in Japan. *BMC Public Health*, 7, 321. doi: 10.1186/1471-2458-7-321
- [74] Hawton, K. (2007). Restricting access to methods of suicide: Rationale and evaluation of this approach to suicide prevention. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 28, 4-9. doi: 10.1027/0227-5910.28.S1.4
- [75] Hawton, K., Fagg, J., Simkin, S., Harriss, L., & Malmberg, A. (1998). Methods used for suicide by farmers in England and Wales. The contribution of availability and its relevance to prevention. *British Journal of Psychiatry*, 173, 320-324. doi: 10.1192/bjp.173.4.320
- [76] Hegerl, U., Althaus, D., Schmidtke, A., & Niklewski, G. (2006). The alliance against depression: 2-year evaluation of a community-based intervention to reduce suicidality. *Psychological Medicine*, 36, 1225-1233. doi: 10.1017/S003329170600780X
- [77] Helliwell, J. F. (2007). Well-being and social capital: Does suicide pose a puzzle? *Social Indicators Research*, 81, 455-496. doi: 10.1007/s11205-006-0022-y
- [78] Hempstead, K. (2006). The geography of self-injury: Spatial patterns in attempted and completed suicide. *Social Science & Medicine*, 62, 3186-3196. doi: 10.1016/j.socscimed.2005.11.038
- [79] Hintikka, J., Saarinen, P. I., & Viinamaki, H. (1999). Suicide mortality in Finland during an economic cycle, 1985-1995. *Scandinavian Journal of Public Health*, 27, 85-88. doi: 10.1177/14034948990270020601
- [80] Hirsch, J. K. (2006). Review of the literature on rural suicide: Risk and protective factors, incidence, and prevention. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 27, 189-199. doi: 10.1027/0227-5910.27.4.189
- [81] Hjern, A., & Allebeck, P. (2002). Suicide in first and second-generation immigrants in Sweden: A comparative study. *Social Psychiatry & Psychiatric Epidemiology*, 37, 423-429. doi: 10.1007/s00127-002-0564-5
- [82] Hjern, A., Lindblad, F., & Vinnerljung, B. (2002). Suicide, psychiatric illness, and social maladjustment in intercountry adoptees in Sweden: A cohort study. *The Lancet*, 360, 443-448. doi: 10.1016/S0140-6736(02)09674-5
- [83] Ide, N., Wyder, M., Kolves, K., & De Leo, D. (2011). Separation as an important risk factor for suicide: A systematic review. *Journal of Family Issues*, 31, 1689-1716. doi: 10.1177/0192513X10365317
- [84] Inagaki, K. (2010). Income inequality and the suicide rate in Japan: Evidence from cointegration and LA-VAR. *Journal of Applied Economics*, 13, 113-133. doi: 10.1016/S1514-0326(10)60006-2
- [85] Inelmen, E. M., Gazerro, M., Inelmen, E., Sergi, G., & Manzato, E. (2010). Alcohol consumption and suicide: A country-level study. *Italian Journal of Public Health*, 7, 226-234.
- [86] Jin, R. (1995). The impact of unemployment on health: A review of the evidence. *Canadian Medical*

- [87] Johansson, L. M., Sundquist, J., Johansson, S. E., Bergman, B., Qvist, J., & TraskmanBendz, L. (1997). Suicide among foreign-born minorities and native Swedes: An epidemiological follow-up study of a defined population. *Social Science & Medicine*, 44, 181-187. doi: 10.1016/S0277-9536(96)00142-6
- [88] Johansson, L. M., Sundquist, J., Johansson, S. E., Qvist, J., & Bergman, B. (1997). The influence of ethnicity and social and demographic factors on Swedish suicide rates—A four year follow-up study. *Social Psychiatry & Psychiatric Epidemiology*, 32, 165-170.
- [89] Judd, F., Cooper, A. M., Fraser, C., & Davis, J. (2006). Rural suicide— People or place effects? *Australian and New Zealand Journal of Psychiatry*, 40, 208-216.
- [90] Kanchan, T., Menon, A., & Menezes, R. G. (2009). Methods of choice in completed suicides: Gender differences and review of literature. *Journal of Forensic Sciences*, 54, 938-942. doi:10.1111/j.1556-4029.2009.01054.x
- [91] Kapusta, N., Zorman, A., Etzersdorfer, E., Ponocny-Seliger, E., JandlJager, E., & Sonneck, G. (2008). Rural-urban differences in Austrian suicides. *Social Psychiatry and Psychiatric Epidemiology*, 43, 311-318. doi: 10.1007/s00127-008-0317-1
- [92] Kawachi, I., Kennedy, B. P., Lochner, K., & Prothrow-Smith, D. (1997). Social capital, inequality and mortality. *American Journal of Public Health*, 87, 1491-1498. doi: 10.2105/AJPH.87.9.1491
- [93] Khang, Y.-H., Lynch, J. W., & Kaplan, G. A. (2005). Impact of economic crisis on cause-specific mortality in South Korea. *International Journal of Epidemiology*, 34, 1291-1301.
- [94] Kim, M. H., Jung-Choi, K., Jun, H. J., & Kawachi, I. (2010). Socioeconomic inequalities in suicidal ideation, parasuicides, and completed suicides in South Korea. *Social Science & Medicine*, 70, 12541261. doi: 10.1016/j.socscimed.2010.01.004
- [95] King, L., Hamm, P., & Stuckler, D. (2009). Rapid large-scale privatization and death rates in ex-communist countries: An analysis of stress-related and health system mechanisms. *International Journal of Health Services*, 39, 461-489. doi:10.2190/HS.39.3.c
- [96] Klieve, H., Barnes, M., & De Leo, D. (2009). Controlling firearms use in Australia: Has the 1996 gun law reform produced the decrease in rates of suicide with this method? *Social Psychiatry & Psychiatric Epidemiology*, 44, 285-292. doi:10.1007/s00127-008-0435-9
- [97] Klieve, H., Svetlicic, J., & De Leo, D. (2009). Who uses firearms as a means of suicide? A population study exploring firearm accessibility and method choice. *BMC Medicine*, 7, 52. doi:10.1186/1741-7015-7-52
- [98] Kliewer, E. (1991). Immigrant suicide in Australia, Canada, England and Wales, and the United States. *Journal of Population Research*, 8, 111-128.
- [99] Kliewer, E. V., & Ward, R. H. (1988). Convergence of immigrant suicide rates to those in the destination country. *American Journal of Epidemiology*, 127, 640-653.
- [100] Konradsen, F., Hoek, W., & Peiris, P. (2006). Reaching for the bottle of pesticide—A cry for help. Self-inflicted poisonings in Sri Lanka. *Social Science & Medicine*, 62, 1710-1719. doi:10.1016/j.socscimed.2005.08.020
- [101] Konradsen, F., Van der Hoek, W., Cole, D. C., Hutchinson, G., Daisley, H., Singh, S., & Eddleston, M. (2003). Reducing acute poisoning in developing countries—Options for restricting the availability of pesticides. *Toxicology*, 192, 249-261. doi:10.1016/S0300-483X(03)00339-1
- [102] Kposowa, A. J. (2000). Marital status and suicide in the national longitudinal mortality study. *Journal of Epidemiology & Community Health*, 54, 254-261. doi:10.1136/jech.54.4.254
- [103] Kposowa, A. J. (2001). Unemployment and suicide: A cohort analysis of social factors predicting suicide in the US National Longitudinal Mortality Study. *Psychological Medicine*, 31, 127-138. doi: 10.1017/S0033291799002925
- [104] Kposowa, A. J., McElvain, J. P., & Breault, K. D. (2008). Immigration and suicide: The role of marital status, duration of residence, and social integration. *Archives of Suicide Research*, 12, 82-92. doi: 10.1080/13811110701801044
- [105] Krupinski, J. (1980). Domestic integration and the rate of suicide: A comparative study. *Journal of Comparative Family Studies*, 11, 261-263.

- [106] Kuendig, H., Plant, M., Plant, M., Miller, P., Kuntsche, S., & Gmel, G. (2008). Alcohol-related adverse consequences: Cross-cultural variations in attribution process among young adults. *European Journal of Public Health*, 18, 386-391. doi: 10.1093/eurpub/ckn007
- [107] Kuroki, M. (2010). Suicide and unemployment in Japan: Evidence from municipal level suicide rates and age-specific suicide rates. *Journal of Socio-Economics*, 39, 683-691. doi: 10.1016/j.socec.2010.06.009
- [108] Laliberté, A., & Tousignant, M. (2009). Alcohol and other contextual factors of suicide in four aboriginal communities of Quebec, Canada. *Crisis*, 30, 215-221. doi: 10.1027/0227-5910.30.4.215
- [109] Landberg, J. (2008). Alcohol and suicide in eastern Europe. *Drug and Alcohol Review*, 27, 361-373. doi: 10.1080/09595230802093778
- [110] Landberg, J. (2009). Per capita alcohol consumption and suicide rates in the US, 1950-2002. *Suicide & Life-Threatening Behavior*, 39, 452-459. doi: 10.1521/suli.2009.39.4.452
- [111] Leenaars, A. A., & Lester, D. (1999). Domestic Integration and Suicide in the Provinces of Canada. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 20, 59-63. doi: 10.1027//0227-5910.20.2.59
- [112] Leigh, A., & Jencks, C. (2007). Inequality and mortality: Long-run evidence from a panel of countries. *Journal of Health Economics*, 26, 1-24. doi: 10.1016/j.jhealeco.2006.07.003
- [113] Lester, D., & Yang, B. (1991). The relationship between divorce, unemployment and female participation in the labour force and suicide rates in Australia and America. *Australian and New Zealand Journal of Psychiatry*, 25, 519-523. doi: 10.3109/00048679109064445
- [114] Lester, D., & Yang, B. (1997). *The Economy and suicide: Economic perspectives on suicide*. Commack, NY: Nova Science Publishers.
- [115] Lewis, G., & Sloggett, A. (1998). Suicide, deprivation, and unemployment: Record linkage study. *British Medical Journal*, 317, 1283-1286. doi: 10.1136/bmj.317.7168.1283
- [116] Lin, J.-J., Chang, S.-S., & Lu, T.-H. (2010). The leading methods of suicide in Taiwan, 2002-2008. *BMC Public Health*, 10, 480. doi: 10.1186/1471-2458-10-480
- [117] Lin, S.-J. (2006). Unemployment and suicide: Panel data analyses. *The Social Science Journal*, 43, 727-732. doi: 10.1016/j.soscij.2006.08.013
- [118] Liu, X., Tein, J. Y., Zhao, Z., & Sandler, I. N. (2005). Suicidality and correlates among rural adolescents of China. *Journal of Adolescent Health*, 37, 443-451. doi: 10.1016/j.jadohealth.2004.08.027
- [119] Lorant, V., Kunst, A. E., Huisman, M., Costa, G., Mackenbach, J., & The E. U. Working Group on Socio-Economic Inequalities in Health. (2005). Socio-economic inequalities in suicide: A European comparative study. *The British Journal of Psychiatry*, 187, 49-54. doi: 10.1192/bjp.187.1.49
- [120] Lucey, S., Corcoran, P., Keeley, H. S., Brophy, J., Arensman, E., & Perry, I. J. (2005). Socioeconomic change and suicide: A time-series study from the Republic of Ireland. *Crisis*, 26, 90-94. doi: 10.1027/0227-5910.26.2.90
- [121] Lundin, A., Lundberg, I., Hallsten, L., Ottosson, J., & Hemmingsson, T. (2010). Unemployment and mortality—A longitudinal prospective study on selection and causation in 49321 Swedish middle-aged men. *Journal of Epidemiology and Community Health*, 64, 22-28. doi: 10.1136/jech.2008.079269
- [122] Luoma, J. B., & Pearson, J. L. (2002). Suicide and marital status in the United States, 1991-1996: Is Widowhood a Risk Factor? *American Journal of Public Health*, 92, 1518-1522. doi: 10.2105/AJPH.92.9.1518
- [123] Lynch, J., Smith, G. D., Hillemeier, M., Shaw, M., Raghunathan, T., & Kaplan, G. (2001). Income inequality, the psychosocial environment, and health: Comparisons of wealthy nations. *Lancet*, 358, 194-200. doi: 10.1016/S0140-6736(01)05407-1
- [124] Maag, T. (2008). Economic correlates of suicide rates in OECD countries. KOF Working Papers, No 207, KOF Swiss Economic Institute.
- [125] Macintyre, S., Ellaway, A., & Cummins, S. (2002). Place effects on health: How can we conceptualise, operationalise and measure them? *Social Science & Medicine*, 55, 125-139. doi: 10.1016/S0277-9536(01)00214-3

- [126] Maki, N., & Martikainen, P. (2009). The role of socioeconomic indicators on non-alcohol and alcohol-associated suicide mortality among women in Finland. A register-based follow-up study of 12 million person-years. *Social Science & Medicine*, 68, 2161-2169. doi:10.1016/j.socscimed.2009.04.006
- [127] Makinen, I. (1997). Are there social correlates to suicide? *Social Science & Medicine*, 44, 1919-1929. doi:10.1016/S0277-9536(97)00016-6
- [128] Mann, R., Zalzman, R., Smart, R., Rush, B., & Suurvali, H. (2006). Alcohol consumption, alcoholics anonymous membership, and suicide mortality rates, Ontario, 1968-1991. *Journal of Studies on Alcohol and Drugs*, 67, 445-453.
- [129] Martikainen, P. T., & Valkonen, T. (1996). Excess mortality of unemployed men and women during a period of rapidly increasing unemployment. *The Lancet*, 348, 909-912. doi:10.1016/S0140-6736(96)03291-6
- [130] Masocco, M., Pompili, M., Vanacore, N., Innamorati, M., Lester, D., Girardi, P., & Vichi, M. (2010). Completed suicide and marital status according to the Italian region of origin. *Psychiatric Quarterly*, 81, 57-71. doi:10.1007/s11126-009-9118-2
- [131] Masocco, M., Pompili, M., Vichi, M., Vanacore, N., Lester, D., & Tatarelli, R. (2008). Suicide and marital status in Italy. *Psychiatric Quarterly*, 79, 275-285. doi:10.1007/s11126-008-9072-4
- [132] Messner, S., Bjarnason, T., Raffalovich, L., & Robinson, B. (2006). Nonmarital fertility and the effects of divorce rates on youth suicide rates. *Journal of Marriage and Family*, 68, 1105-1111. doi:10.1111/j.1741-3737.2006.00316.x
- [133] Miller, J. R., Piper, T. M., Ahern, J., Tracy, M., Tardiff, K. J., Vlahov, D., & Sandro, G. (2005). Income inequality and risk of suicide in New York city neighborhoods: A multilevel case-control study. *Suicide & Life-Threatening Behavior*, 35, 448-459. doi:10.1521/suli.2005.35.4.448
- [134] Milner, A., McClure, R., & De Leo, D. (2012). Socio-economic determinants of suicide: An ecological analysis of 35 countries. *Social Psychiatry & Psychiatric Epidemiology*, 47, 19-27. doi:10.1007/s00127-010-0316-x
- [135] Milner, A., McClure, R., Sun, J., & De Leo, D. (2011). Globalisation and suicide: An empirical investigation in 35 countries over the period 1980-2006. *Health and Place*, 17, 996-1003. doi:10.1016/j.healthplace.2011.03.002
- [136] Milner, A., Page, A., & Lamontagne, A. D. (2012). Duration of unemployment and suicide in Australia over the period 1985-2006: An ecological investigation by sex and age during rising versus declining national unemployment rates. *Journal of Epidemiology and Community Health*, 67, 237-244. doi:10.1136/jech-2012-201594
- [137] Mohamed, F., Manuweera, G., Gunnell, D., Azher, S., Eddleston, M., Dawson, A., & Konradsen, F. (2009). Pattern of pesticide storage before pesticide self-poisoning in rural Sri Lanka. *BMC Public Health*, 9, 405. doi:10.1186/1471-2458-9-405
- [138] Moksony, F. (1990). Ecological analysis of suicide. In D. Lester (Ed.), *Understanding suicide* (pp. 121-138). Philadelphia, PA: Charles Press.
- [139] Moniruzzaman, S., & Andersson, R. (2008). Economic development as a determinant of injury mortality—A longitudinal approach. *Social Science & Medicine*, 66, 1699-1708. doi:10.1016/j.socscimed.2007.12.020
- [140] Morrell, S., Taylor, R., Slaytor, E., & Ford, P. (1999). Urban and rural suicide differentials in migrants and the Australian-born, New South Wales, Australia 1985-1994. *Social Science & Medicine*, 49, 81-91. doi:10.1016/S0277-9536(99)00083-0
- [141] Nakaya, N., Kikuchi, N., Shimazu, T., Ohmori, K., Kakizaki, M., Sone, T., & Tsuji, I. (2007). Alcohol consumption and suicide mortality among Japanese men: The Ohsaki study. *Alcohol*, 41, 503-510. doi:10.1016/j.alcohol.2007.08.001
- [142] Neeleman, J. (1998). Regional suicide rates in the Netherlands: Does religion still play a role? *International Journal of Epidemiology*, 27, 466-472. doi:10.1093/ije/27.3.466
- [143] Neeleman, J., & Lewis, G. (1999). Suicide, religion, and socioeconomic conditions. An ecological study in 26 countries, 1990. *Journal of Epidemiology and Community Health*, 53, 204-210. doi:10.1136/jech.53.4.204
- [144] Neeleman, J., Halpern, D., Leon, D., & Lewis, G. (1997). Tolerance of suicide, religion and suicide



rates: an ecological study in 19 Western countries. *Psychological Medicine*, 27, 1165-1171. doi:10.1017/S0033291797005357

- [145] Neumayer, E. (2003). Socioeconomic factors and suicide rates at large-unit aggregate levels: A comment. *Urban Studies*, 40, 2769-2776. doi:10.1080/0042098032000191029
- [146] Newman, J. F., Whittemore, K. R., & Newman, H. G. (1973). Women in the labor force and suicide. *Social Problems*, 21, 220-230. doi:10.2307/799541
- [147] Niederkrotenthaler, T., & Sonneck, G. (2007). Assessing the impact of media guidelines for reporting on suicides in Austria: Interrupted time series analysis. *Australian and New Zealand Journal of Psychiatry*, 41, 419-428. doi:10.1080/00048670701266680
- [148] Niederkrotenthaler, T., Till, B., Kapusta, N. D., Voracek, M., Dervic, K., & Sonneck, G. (2009). Copycat effects after media reports on suicide: A population-based ecologic study. *Social Science & Medicine*, 69, 1085-1090. doi:10.1016/j.socscimed.2009.07.041
- [149] Niederkrotenthaler, T., Voracek, M., Herberth, A., Till, B., Strauss, M., Etzersdorfer, E., & Sonneck, G. (2010). Media and suicide. Papageno v Werther effect. *British Medical Journal*, 341, c5841. doi:10.1136/bmj.c5841
- [150] Noh, Y.-H. (2009). Does unemployment increase suicide rates? The OECD panel evidence. *Journal of Economic Psychology*, 30, 575-582. doi:10.1016/j.joep.2009.04.003
- [151] Nordentoft, M., Qin, P., Helweg-Larsen, K., & Juel, K. (2006). Timetrends in method-specific suicide rates compared with the availability of specific compounds. The Danish experience. *Nordic Journal of Psychiatry*, 60, 97-106. doi:10.1080/08039480600600169
- [152] Nordentoft, M., Qin, P., Helweg-Larsen, K., & Juel, K. (2007). Restrictions in means for suicide: An effective tool in preventing suicide: The Danish experience. *Suicide & Life-Threatening Behavior*, 37, 688-697. doi:10.1521/suli.2007.37.6.688
- [153] Norström, T., & Skog, O.-J. (2001). Alcohol and mortality: Methodological and analytical issues in aggregate analyses. *Addiction*, 96, 5-17. doi:10.1080/09652140020021143
- [154] O' Reilly, D., Rosato, M., Connolly, S., & Cardwell, C. (2008). Area factors and suicide: 5-year follow-up of the Northern Ireland population. *The British Journal of Psychiatry*, 192, 106-111. doi:10.1192/bjp.bp.107.040360
- [155] Ott, J. R. J., Winkler, V., Kyobutungi, C., Laki, J., & Becher, H. (2008). Effects of residential changes and time patterns on external-cause mortality in migrants: Results of a German cohort study. *Scandinavian Journal of Public Health*, 36, 524-531. doi:10.1177/1403494807087293
- [156] Page, A., Morrell, S., Taylor, R., Carter, G., & Dudley, M. (2006). Divergent trends in suicide by socio-economic status in Australia. *Social Psychiatry and Psychiatric Epidemiology*, 41, 911-917. doi:10.1007/s00127-006-0112-9
- [157] Page, A., Morrell, S., Taylor, R., Dudley, M., & Carter, G. (2007). Further increases in rural suicide in young Australian adults: Secular trends, 1979-2003. *Social Science & Medicine*, 65, 442-453. doi:10.1016/j.socscimed.2007.03.029
- [158] Pampel, F. C. (1998). National context, social change, and sex differences in suicide rates. *American Sociological Review* 63, 744-758. doi:10.2307/2657337
- [159] Payne, S., Swami, V., & Stanistreet, D. L. (2008). The social construction of gender and its influence on suicide: A review of the literature. *Journal of Men's Health*, 5, 23-35. doi:10.1016/j.jomh.2007.11.002
- [160] Pearce, J., Barnett, R., & Jones, I. (2007). Have urban/rural inequalities in suicide in New Zealand grown during the period 1980-2001? *Social Science and Medicine*, 65, 1807-1819. doi:10.1016/j.socscimed.2007.05.044
- [161] Peele, S. (1997). Utilizing culture and behaviour in epidemiological models of alcohol consumption and consequences for Western nations. *Alcohol and Alcoholism*, 32, 51-64. doi:10.1093/oxfordjournals.alcalc.a008234
- [162] Phillips, A. (2009). Health status differentials across rural and remote Australia. *Australian Journal of Rural Health*, 17, 2-9. doi:10.1111/j.1440-1584.2008.01029.x
- [163] Phillips, M. R., Li, X., & Zhang, Y. (2002). Suicide rates in China, 1995-99. *The Lancet*, 359, 835-840.

- [164] Pirkis, J., & Blood, R. W. (2001a). Suicide and the media. Part I: Reportage in nonfictional media. *Crisis*, 22, 146-154. doi:10.1027//0227-5910.22.4.146
- [165] Pirkis, J., & Blood, R. W. (2001b). Suicide and the media. Part II: Portrayal in fictional media. *Crisis*, 22, 155-162. doi:10.1027//0227-5910.22.4.155
- [166] Pirkis, J., Blood, R. W., Beautrais, A., Burgess, P., & Skehans, J. (2006). Media guidelines on the reporting of suicide. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 27, 82-87. doi:10.1027/0227-5910.27.2.82
- [167] Platt, S., Micciolo, R., & Tansella, M. (1992). Suicide and unemployment in Italy: Description, analysis and interpretation of recent trends. *Social Science & Medicine*, 34, 1191-1201. doi:10.1016/0277-9536(92)90312-E
- [168] Pompili, M., Innamorati, M., Vichi, M., Masocco, M., Vanacore, N., Lester, D., & Girardi, P. (2011). Inequalities and impact of socioeconomic-cultural factors in suicide rates across Italy. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 32, 178-185. doi:10.1027/0227-5910/a000084
- [169] Preti, A., & Miotto, P. (1999). Suicide and unemployment in Italy, 1982-1994. *Journal of Epidemiology and Community Health*, 53, 694-701. doi:10.1136/jech.53.11.694
- [170] Pridemore, W. A. (2006). Heavy drinking and suicide in Russia. *Social Forces*, 85, 413-430. doi:10.1353/sof.2006.0138
- [171] Pritchard, C. (1992). Is there a link between suicide in young men and unemployment? A comparison of the UK with other European community countries. *The British Journal of Psychiatry*, 160, 750-756. doi:10.1192/bjp.160.6.750
- [172] Pritchard, C. (1996). Suicide in the People's Republic of China categorized by age and gender: Evidence of the influence of culture on suicide. *Acta Psychiatrica Scandinavica*, 93, 362-367. doi:10.1111/j.1600-0447.1996.tb10661.x
- [173] Pritchard, C., & Baldwin, D. S. (2000). Effects of age and gender on elderly suicide rates in catholic and orthodox countries: An inadvertent neglect? *International Journal Geriatric Psychiatry*, 15, 904-910. doi:10.1002/1099-1166(200010)15:10<904::AID-GPS216>3.0.CO;2-O
- [174] Pugno, M. (2009). The Easterlin paradox and the decline of social capital: An integrated explanation. *Journal of Socio-Economics*, 38, 590-600. doi:10.1016/j.socec.2009.03.012
- [175] Qin, P., Agerbo, E., & Mortensen, P. B. (2003). Suicide risk in relation to socioeconomic, demographic, psychiatric, and familial factors: A national register-based study of all suicides in Denmark, 1981-1997. *American Journal of Psychiatry*, 160, 765-772. doi:10.1176/appi.ajp.160.4.765
- [176] Qin, P., Mortensen, P. B., Agerbo, E., Westergaard-Nielsen, N., & Eriksson, T. O. R. (2000). Gender differences in risk factors for suicide in Denmark. *World Development*, 177, 546-550. doi:10.1192/bjp.177.6.546
- [177] Ramstedt, M. (2001). Alcohol and suicide in 14 European countries. *Addiction*, 96, s59-s79.
- [178] Roberts, D. M., Karunaratna, A., Buckley, N. A., Manuweera, G., Sheriff, M. H. R., & Eddleston, M. (2003). Influence of pesticide regulation on acute poisoning deaths in Sri Lanka. *Bulletin of the World Health Organization*, 81, 789-798.
- [179] Rodríguez Andrés, A. (2005). Income inequality, unemployment, and suicide: A panel data analysis of 15 European countries *Applied Economics*, 37, 439-451. doi:10.1080/0003684042000295304
- [180] Rodríguez Andrés, A. R., & Hempstead, K. (2011). Gun control and suicide: The impact of state firearm regulations in the United States, 1995-2004. *Health Policy*, 101, 95-103. doi:10.1016/j.healthpol.2010.10.005
- [181] Rossow, L. (1996). Alcohol and suicide-beyond the link at the individual level. *Addiction*, 91, 1413-1416. doi:10.1111/j.1360-0443.1996.tb02240.x
- [182] Rubinstein, D. H. (1992). Suicide in Micronesia and Samoa: A critique of explanations. *Pacific Studies*, 15, 51-75.
- [183] Sareen, J., Afifi, T. O., McMillan, K. A., & Asmundson, G. J. G. (2011). Relationship between household income and mental disorders: Findings from a population-based longitudinal study. *Archives of*

- [184] Saunderson, T., Haynes, R., & Langford, I. H. (1998). Urban-rural variations in suicides and undetermined deaths in England and Wales. *Journal of Public Health*, 20, 261-267. doi: 10.1093/oxfordjournals.pubmed.a024767
- [185] Shah, A. (2008). Association of suicide rates of elderly persons with fertility rates. *Psychological Reports*, 102, 369-376. doi: 10.2466/pr0.102.2.369-376
- [186] Shah, A., Lindsay, J., & Dennis, M. (2009). Comparison of elderly suicide rates among migrants in England and Wales with their country of origin. *International Journal of Geriatric Psychiatry*, 24, 292-299. doi: 10.1002/gps.2105
- [187] Sher, L. (2006). Per capita income is related to suicide rates in men but not in women. *The Journal of Men's Health & Gender*, 3, 39-42. doi: 10.1016/j.jmhg.2005.04.016
- [188] Singh, G., & Siahpush, M. (2002). Increasing rural-urban gradients in US suicide mortality. *American Journal of Public Health*, 92, 1161-1168. doi: 10.2105/AJPH.92.7.1161
- [189] Singh, G. K., & Siahpush, M. (2006). All-cause and cause-specific mortality of immigrants and native born in the United States. *American Journal of Public Health*, 91, 392-399.
- [190] Skegg, K., & Herbison, P. (2009). Effect of restricting access to a suicide jumping site. *Australian and New Zealand Journal of Psychiatry*, 43, 498-502. doi: 10.1080/00048670902873698
- [191] Stack, S. (1981). The Effect of Immigration on Suicide: A cross-national analysis. *Basic and Applied Social Psychology*, 2, 205-218. doi: 10.1207/s15324834basps0203\_4
- [192] Stack, S. (1982). Suicide: A decade review of the sociological literature. *Deviant Behavior*, 4, 41-66. doi: 10.1080/01639625.1982.9967602
- [193] Stack, S. (1987). The effect of female participation in the labor force on suicide: A time series analysis, 1948-1980. *Sociological Forum*, 2, 257-277. doi: 10.1007/BF01124166
- [194] Stack, S. (1996-1997). Does being a parent affect suicide ideology? *OMEGA: Journal of Death and Dying* 34, 71-80. doi: 10.2190/Y4MX-74WN-86BA-UGHB
- [195] Stack, S. (2000a). Suicide: A 15-year review of the sociological literature. Part 1: Cultural and economic factors. *Suicide & Life-Threatening Behavior*, 30, 145-176.
- [196] Stack, S. (2000b). Suicide: A 15-year review of the sociological literature. Part II: Modernization and social integration perspectives. *Suicide & Life-Threatening Behavior*, 30, 163-176.
- [197] Stack, S. (2005). Suicide in the media: A quantitative review of studies based on non-fictional stories. *Suicide & Life-Threatening Behavior*, 35, 121-133. doi: 10.1521/suli.35.2.121.62877
- [198] Stack, S. (2009). Copycat effects of fictional suicide: A meta-analysis. In S. Stack, & D. Lester (Eds.), *Suicide and the creative arts* (pp. 231-243). New York: Nova Science.
- [199] Stickley, A., Jukkala, T., & Norstrom, T. (2011). Alcohol and suicide in Russia, 1870-1894 and 1956-2005: Evidence for the continuation of a harmful drinking culture across time? *Journal of Studies on Alcohol and Drugs*, 72, 341-347.
- [200] Stockard, J., & O'Brien, R. M. (2002). Cohort effects on suicide rates: International variations. *American Sociological Review*, 67, 854-872. doi: 10.2307/3088973
- [201] Stuckler, D., Basu, S., Suhrcke, M., Coutts, A., & McKee, M. (2009). The public health effect of economic crises and alternative policy responses in Europe: An empirical analysis. *The Lancet*, 374, 315-323. doi: 10.1016/S0140-6736(09)61124-7
- [202] Sudak, H. S., & Sudak, D. M. (2005). The media and suicide. *Academic Psychiatry*, 29, 495-499. doi: 10.1176/appi.ap.29.5.495
- [203] Tapia Granados, J. A., & Diez Roux, A. V. (2009). Life and death during the Great Depression. *Proceedings of the National Academy of Sciences of the United States of America*, 106, 17290-17295. doi: 10.1073/pnas.0904491106
- [204] Taylor, R., Morrell, S., Slaytor, E., & Ford, P. (1998). Suicide in urban New South Wales, Australia 1985-1994: Socio-economic and migrant interactions. *Social Science and Medicine*, 47, 1677-1686. doi: 10.1016/S0277-9536(98)00243-3

- [205] Trovato, F. (1987). A longitudinal analysis of divorce in Canada. *Journal of Marriage and Family*, 49, 193-203. doi:10.2307/352683
- [206] Trovato, F., & Jarvis, G. K. (1986). Immigrant suicide in Canada: 1971 and 1981. *Social Forces*, 65, 433-457.
- [207] Trovato, F., & Vos, R. (1992). Married female labor force participation and suicide in Canada, 1971 and 1981. *Sociological Forum*, 7, 661-677. doi:10.1007/BF01112320
- [208] Tsai, J.-F., & Cho, W. (2011). The secular trend of suicide rate and the socio-economic, media, and climatic factors in Taiwan, 1976-2009: A population-based study. *Journal of Affective Disorders*, 129, 270-274. doi:10.1016/j.jad.2010.08.008
- [209] Umberson, D. (1987). Family Status and Health Behaviors: Social control as a dimension of social integration. *Journal of Health and Social Behavior*, 28, 306-319. doi:10.2307/2136848
- [210] Van Poppel, F., & Day, L. H. (1996). A test of Durkheim's theory of suicide—Without committing the "ecological fallacy". *American Sociological Review*, 61, 500-508. doi:10.2307/2096361
- [211] Van Tubergen, F., Te Grotenhuis, M., & Ultee, W. (2005). Denomination, religious context, and suicide: Neo-Durkheimian multilevel Explanations tested with individual and contextual data. *American Journal of Sociology*, 111, 797-823. doi:10.1086/497307
- [212] Vijayakumar, L., Nagaraj, K., Pirkis, J., & Whiteford, H. (2005). Suicide in developing countries (1): Frequency, distribution, and association with socioeconomic indicators. *Crisis*, 26, 104-111. doi:10.1027/0227-5910.26.3.104
- [213] Voracek, M., & Loibl, L. M. (2008). Consistency of immigrant and country-of-birth suicide rates: A meta-analysis. *Acta Psychiatrica Scandinavica*, 118, 259-271. doi:10.1111/j.1600-0447.2008.01238.x
- [214] Westman, J., Sundquist, J., Johansson, L. M., Johansson, S. E., & Sundquist, K. (2006). Country of birth and suicide: A follow-up study of a national cohort in Sweden. *Archives of Suicide Research*, 10, 239-248. doi:10.1080/13811110600582471
- [215] Whitley, E., Gunnell, D., Dorling, D., & Smith, G. D. (1999). Ecological study of social fragmentation, poverty, and suicide. *British Medical Journal*, 319, 1034-1037. doi:10.1136/bmj.319.7216.1034
- [216] Wilkinson, R. G. (1997). Health inequalities: Relative or absolute material standards? *British Medical Journal*, 315, 591-595. doi:10.1136/bmj.314.7080.591
- [217] Wong, P. W. C., Chan, W. S. C., Lau, T. K., Morgan, P. R., & Yip, P. S. F. (2009). Suicides by jumping from iconic bridges in Hong Kong. *Crisis: The Journal of Crisis Intervention and Suicide Prevention*, 30, 79-84. doi:10.1027/0227-5910.30.2.79
- [218] Wu, W. C., & Bond, M. H. (2006). National differences in predictors of suicide among young and elderly citizens: Linking societal predictors to psychological factors. *Archives of Suicide Research*, 10, 45-60. doi:10.1080/13811110500318430
- [219] Wyder, M., Ward, P., & De Leo, D. (2009). Separation as a suicide risk factor. *Journal of Affective Disorders*, 116, 208-213. doi:10.1016/j.jad.2008.11.007
- [220] Yamasaki, A., Araki, S., Sakai, R., & Voorhees, S. (2008). Corrigendum: Suicide mortality of young, middle-aged and elderly males and females in Japan for the years 1953-96: Time series analysis for the effects of unemployment, female labour force, young and aged population, primary industry and population density. *Industrial Health*, 46, 541-549. doi:10.2486/indhealth.46.541
- [221] Yamasaki, A., Sakai, R., & Shirakawa, T. (2005). Low income, unemployment, and suicide mortality rates for middle-age persons in Japan. *Psychological Reports*, 96, 337-348. doi:10.2466/pr0.96.2.337-348
- [222] Yang, B., & Lester, D. (2001). Learnings from Durkheim and beyond: The economy and suicide. *Suicide & Life-Threatening Behavior*, 31, 15-31. doi:10.1521/suli.31.1.15.21306
- [223] Ying, Y. H., & Chang, K. (2009). A study of suicide and socioeconomic factors. *Suicide & Life-Threatening Behavior*, 39, 214-226. doi:10.1521/suli.2009.39.2.214
- [224] Yip, P. S., Fu, K. W., Yang, K. C., Ip, B. Y., Chan, C. L., Chen, E. Y., & Hawton, K. (2006). The effects of a celebrity suicide on suicide rates in Hong Kong. *Journal of Affective Disorders*, 93, 245-252. doi:10.1016/j.jad.2006.03.015

- [225] Yip, P. S. F., Callanan, C., & Yuen, H. P. (2000). Urban/rural and gender differentials in suicide rates: East and west. *Journal of Affective Disorders*, 57, 99-106. doi:10.1016/S0165-0327(99)00058-0
- [226] Zhang, J. (1998). Suicide in the world: Toward a population increase theory of suicide. *Death Studies*, 22, 525-539. doi: 10.1080/074811898201380
- [227] Zhang, J. (2010). Marriage and suicide among Chinese rural young women. *Social Forces*, 89, 311-326. doi: 10.1353/sof.2010.0065
- [228] Zhang, J., Ma, J., Jia, C., Sun, J., Guo, X., Xu, A., & Li, W. (2010). Economic growth and suicide rate changes: A case in China from 1982 to 2005. *European Psychiatry*, 25, 159-163. doi: 10.1016/j.eurpsy.2009.07.013