



THE EFFECT OF WORK-LIFE BALANCE ON PRODUCTIVITY AND MENTAL HEALTH

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1. Introduction

In recent years, global concern over the rising prevalence of mental health disorders—particularly depression—has intensified. Depression is not only a public health crisis but also a societal challenge linked to various social, economic, and political dimensions. This report employs Tableau to conduct a multi-dimensional visual analysis, drawing on a rich set of global datasets to investigate correlations between mental health and indicators such as gender inequality, income inequality, work-life balance, and economic standing. The goal is to provide quantitative insights into how disparities in gender and income influence mental health outcomes globally. Through storytelling and visual comparison, this report seeks to answer pivotal questions: where depression is most prevalent, how inequalities evolve over time, and whether economic well-being can shield populations from mental health issues. By leveraging powerful visual tools, this report highlights patterns, outliers, and trends that may otherwise go unnoticed in traditional analysis.

2. Research Questions

1. Where Are Depression Rates the Highest?
2. How Have Gender and Income Inequality Changed Over Time?
3. Which Continents Face the Most Inequality?
4. Is There a Link Between Work-Life Balance and Depression?
5. Does Economic Inequality Impact Mental Health?
6. Is There a Connection Between Wealth and Inequality?
7. How Does Gender Inequality Compare to Economic Inequality?

3. Methodology

This report synthesizes data from multiple globally recognized sources:

- **Depression Data:** Sourced from *Our World in Data*, reflecting the percentage of the population that has experienced lifetime depression or anxiety.
- **Gender Inequality Index (GII):** Retrieved from *UNDP Human Development Reports*, capturing disparities in reproductive health, empowerment, and economic status.

- **Work-Life Balance:** Collected from the *OECD Better Life Index*, which tracks time spent in paid labor and its effects on quality of life.
- **Income Inequality:** Represented through the **Gini Index**, available on the *World Bank Data* portal.
- **Wealth Metrics (GDP per Capita):** Gathered from the *IMF Data Mapper*, adjusted to represent real values across different income levels and regions.

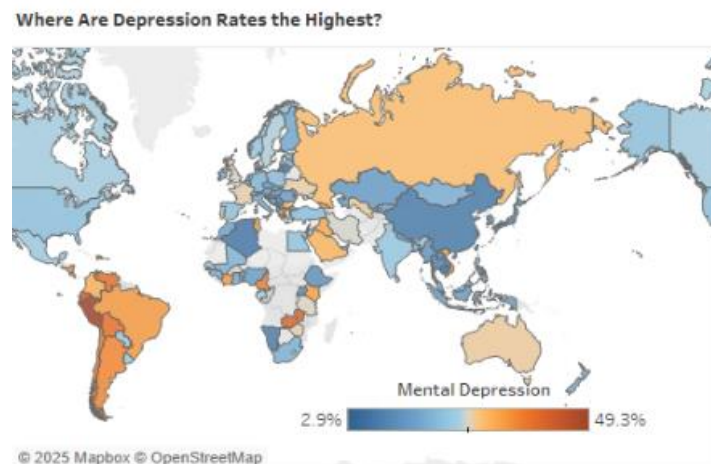
Data Cleaning and Processing:

The insights were drawn from preprocessed datasets merged using unique country codes. Missing data points were addressed via mean imputation or excluded when necessary. Columns were renamed for clarity, and variables like depression rates were normalized to percentages. Tableau was used to create geographic maps, bar charts, scatter plots, and trend lines, enabling comparisons across time, gender, income level, and region.

4. Visual Analysis of Insights

Visualization 1: Where Is Depression Rates the Highest?

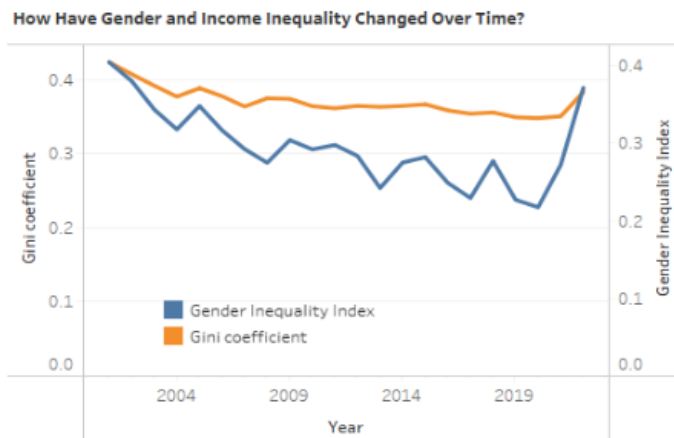
According to the dataset, Peru exhibits the highest depression rate globally at 49.35%, closely followed by Ecuador (42.69%) and El Salvador (38.13%). A noticeable pattern emerges in Latin American countries, many of which have rates exceeding 30%, indicating a regional mental health crisis.



In contrast, countries like Israel (6.22%), Cambodia (6.92%), and Japan (9.99%) report much lower rates. Interestingly, developed countries such as Australia (27.25%) and France (26.82%) also rank high, suggesting that affluence alone does not guarantee better mental health.

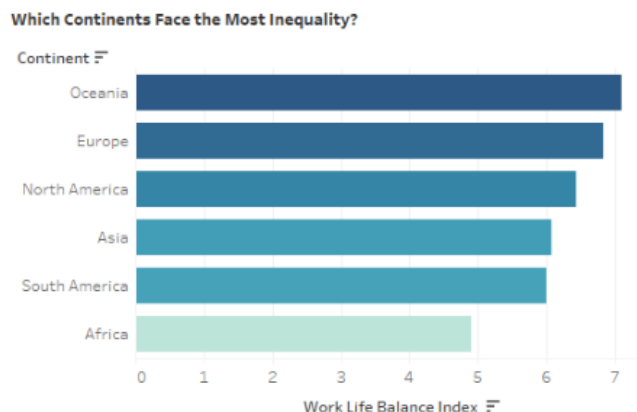
Visualization 2: How Have Gender and Income Inequality Changed Over Time?

Using time-series line graphs, we observed a general decline in gender inequality globally, especially in Europe and parts of East Asia. The GII for countries like Sweden and Norway has remained consistently low (under 0.1), while countries like Yemen and Chad have shown slow but steady improvement. Income inequality, as measured by the Gini Index, has been more volatile. Brazil, for instance, has seen fluctuations around 50, while Germany has remained relatively stable near 30. These temporal trends indicate a gradual improvement in gender equity, while income disparity persists in many developing nations.



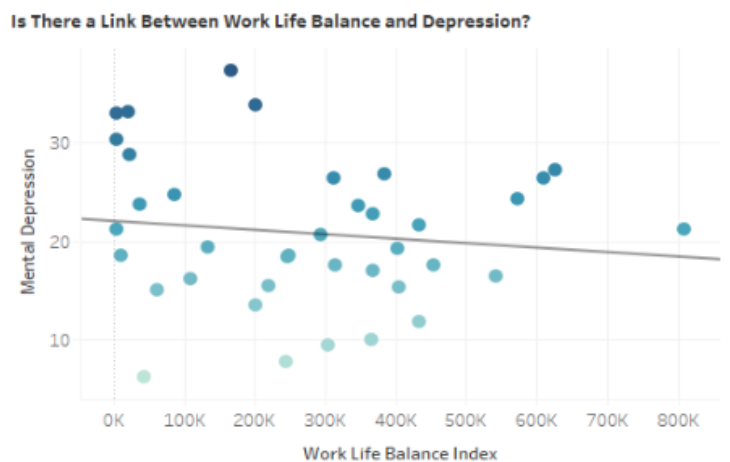
Visualization 3: Which Continents Face the Most Inequality?

Mapping inequality by continent revealed that Africa and Latin America report the highest levels of income inequality. The Gini Index regularly exceeds 45 in these regions. In terms of gender inequality, South Asia and the Middle East fare the worst, with several countries like Pakistan, Afghanistan, and Saudi Arabia exhibiting GII scores above 0.5. Europe consistently performs best across both indices, supporting the notion that continental economic and cultural norms play a role in fostering equity.



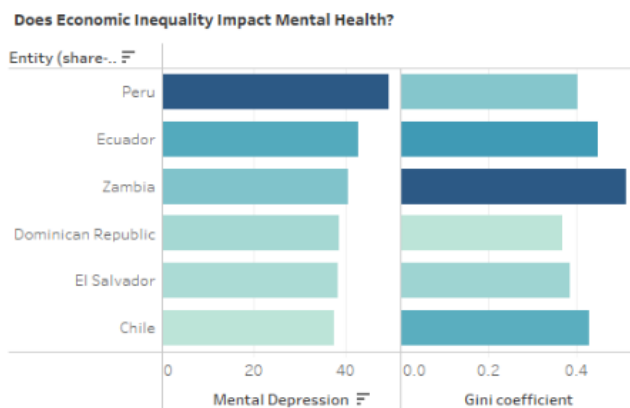
Visualization 4: Is There a Link Between Work-Life Balance and Depression?

The OECD data indicate that countries with poorer work-life balance—such as Turkey, Mexico, and South Korea—tend to report higher depression rates. For example, South Korea ranks among the worst in work-life balance and reports elevated mental health issues. Meanwhile, Denmark and Netherlands, where less than 10% of the population works long hours weekly, also have relatively lower depression rates (under 20%). This Visualization suggests that long working hours may exacerbate mental health challenges.



Visualization 5: Does Economic Inequality Impact Mental Health?

A scatter plot comparing the Gini Index and depression rates across countries shows a positive correlation. Brazil (Gini ~53, Depression ~33%) and South Africa (Gini ~63, Depression ~18.5%) both exhibit high inequality and notable depression levels. In contrast, Norway and Finland, which have low Gini scores (~25), report significantly lower depression rates (under 18%). This correlation supports the hypothesis that economic inequality contributes to mental health issues.



Visualization 6: Is There a Connection Between Wealth and Inequality?

Countries with high GDP per capita, such as Switzerland and Norway, tend to have lower Gini scores, suggesting a more equitable income distribution. Conversely, India and Nigeria—with lower GDP per capita—exhibit higher inequality. This trend indicates that wealthier nations may have more robust redistributive systems or inclusive growth policies.

Is There a Connection Between Wealth and Inequality?



Visualization 7: How Does Gender Inequality Compare to Economic Inequality?

Using a dual-axis comparison in Tableau, we found that countries with low gender inequality often also exhibit low-income inequality. Scandinavian countries like Sweden, Finland, and Norway consistently score well on both measures. Conversely, Sub-Saharan Africa and parts of South Asia show high scores on both GII and the Gini Index. However, Saudi Arabia, while having a high GII, displays a moderate Gini score, indicating that gender and income inequality do not always move in tandem.

How Does Gender Inequality Compare to Economic Inequality?



5. Key Findings

- **Peru, Ecuador, and El Salvador** exhibit the highest depression rates globally.
- **Latin America and Africa** face the most significant income disparities, while **South Asia** struggles with gender inequality.
- There is a **strong positive correlation** between **income inequality and depression**.
- Countries with **poorer work-life balance** tend to report **higher mental health issues**.
- Wealthier nations generally have **lower inequality levels** and **better mental health outcomes**.
- **Gender and economic inequalities** often correlate but not uniformly; cultural factors influence discrepancies.

6. Conclusion

This Tableau-driven analysis reveals profound connections between mental health and various forms of inequality. Countries plagued by income and gender disparities frequently suffer from higher depression rates, highlighting the intertwined nature of social and economic challenges. Work-life balance emerges as a vital factor affecting mental well-being, reinforcing the need for policies that prioritize holistic human development. While high GDP per capita often correlates with lower inequality and better mental health outcomes, exceptions exist, showing that wealth alone is not a cure-all. Addressing depression on a global scale requires more than just healthcare interventions; it demands structural reforms to promote fairness, equality, and a healthier work environment. Tableau's visualization capabilities were instrumental in unraveling these nuanced relationships, allowing for deeper exploration and more actionable insights.

7. Additional Research Questions

- How do cultural factors mediate the impact of inequality on mental health?
- What role does educational inequality play in mental health outcomes?
- How does urbanization correlate with depression and inequality?
- Are mental health services equitably distributed in high-inequality countries?

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