Salud, Ciencia y Tecnología - Serie de Conferencias. 2023; 2:545

doi: 10.56294/sctconf2023545



Categoría: Finanzas, Empresa, Gestión, Economía y Contabilidad

ARTÍCULO ORIGINAL

Evolution of the Impact of the Tax Reform from 2019 to 2023 on the Deduction of Personal Expenses for Individual Taxpayers in Ecuador

Evolución del Impacto de la Reforma Tributaria de 2019 a 2023 en la Deducción de Gastos Personales para Contribuyentes Personas Naturales en Ecuador

María Teresa Espinosa-Jaramillo¹,² D ≥, Elita Luisa Ricón-Castillo³ ≥

Citar como: Espinosa-Jaramillo MT, Ricón-Castillo EL. Evolution of the Impact of the Tax Reform from 2019 to 2023 on the Deduction of Personal Expenses for Individual Taxpayers in Ecuador. Salud, Ciencia y Tecnología - Serie de Conferencias 2023; 2:545. https://doi.org/10.56294/sctconf2023545

Recibido: 01-07-2023 Revisado: 20-09-2023 Aceptado: 10-11-2023 Publicado: 11-11-2023

ABSTRACT

The tax reform implemented in Ecuador in 2019 generated important changes in the deduction regime for personal expenses of individual taxpayers. The goal was to increase tax collection, but it had a direct impact on people's tax burden. This study analyzes the evolution of this impact between 2019 and 2023, examining modifications in deduction limits, categories of deductible expenses and effect on tax collection and burden. The results show a progressive decrease in deductions and an increase in the tax burden. In 2019, deductions for education, health, food, clothing and housing were eliminated, setting a limit of 50 % on taxable income. For 2022 the limit was reduced to 10 % and 20 % respectively according to the basic family basket and in 2023 they were totally eliminated and that personal expenses now depend on family charges, this affected middle-high income taxpayers who previously deducted expenses. In summary, the reform had a progressive impact on the reduction of tax benefits for individual taxpayers, facilitating greater collection but also implying a greater tax burden on individuals with medium and high incomes. The effects are evident between 2019 and 2023, although it allows more collection, it negatively affects those who previously deducted personal expenses.

Keywords: Tax Reform; Personal Deductions; Deductible Expenses; Tax Burden; Impact.

RESUMEN

La reforma tributaria implementada en Ecuador en 2019 generó cambios importantes en el régimen de deducción de gastos personales de los contribuyentes personas naturales. El objetivo era aumentar la recaudación tributaria, pero tuvo un impacto directo en la carga tributaria de las personas. Este estudio

¹Universidad de las Fuerzas Armadas ESPE. Sangolquí, Ecuador.

²Facultad de Ciencias Económicas y Sociales. Universidad del Zulia. Maracaibo, Venezuela.

³Centro Socioeconómico del Petróleo y Energías Alternativas, Facultad de Ciencias Económicas y Sociales. Universidad del Zulia. Maracaibo, Venezuela.

[©] Autor(es); 2023. Este es un artículo en acceso abierto, distribuido bajo los términos de una licencia *Creative Commons* (https://creativecommons.org/licenses/by/4.0) que permite el uso, distribución y reproducción en cualquier medio siempre que la obra original sea correctamente citada.

analiza la evolución de este impacto entre 2019 y 2023, examinando las modificaciones en los límites de deducción, las categorías de gastos deducibles y el efecto sobre la recaudación y la carga tributaria. Los resultados muestran una disminución progresiva de las deducciones y un aumento de la presión fiscal. En 2019 se eliminaron las deducciones por educación, sanidad, alimentación, vestido y vivienda, estableciéndose un límite del 50 % sobre la base imponible. Para 2022 el límite se redujo a 10 % y 20 % respectivamente de acuerdo a la canasta básica familiar y en 2023 se eliminaron totalmente y que los gastos personales ahora dependen de las cargas familiares, esto afectó a los contribuyentes de ingresos medios-altos que antes deducían gastos. En resumen, la reforma tuvo un impacto progresivo en la reducción de los beneficios tributarios para los contribuyentes individuales, facilitando una mayor recaudación pero también implicando una mayor carga tributaria para los individuos con ingresos medios y altos. Los efectos son evidentes entre 2019 y 2023, si bien permite una mayor recaudación, afecta negativamente a quienes antes deducían gastos personales.

Palabras clave: Reforma Fiscal; Deducciones Personales; Gastos Deducibles; Presión Fiscal; Impacto.

INTRODUCTION

According to Farhat & Aguirre (2017), the following was stated:

Taxes in Ecuador contribute approximately 60 % of permanent revenues to the General State Budget. The entity in charge of collecting taxes is the Internal Revenue Service, which keeps records of the amounts of taxes and taxpayers who contribute to the management of the financing of public spending.

The formalization and obligation to file income tax deductible expense declarations for all individuals who exceed the taxable tax base has made it possible to formalize and regulate the country's economic activities, resulting in better control through taxpayer participation. (p.3)

Tax reform has a significant impact on the personal finances of a country's individual taxpayers. In Ecuador, the Organic Law for Economic Development and Fiscal Sustainability after the COVID-19 Pandemic, also known as the Humanitarian Support Law, introduced important changes to the tax regime since its approval in 2019 (National Assembly, 2020). One of the changes was the modification in the personal expenses that can be deducted from the taxable base of the personal income tax.

According to Cortez (2020), "the tax reform sought to increase the country's tax collection in a context of economic contraction during the pandemic" (p.55). To this end, deductions and benefits in personal income tax were reduced. Specifically, the Humanitarian Support Law limited the deduction of personal expenses for education, health and food to a maximum of 50 % of total taxable income, an important change from the previous regulations.

According to López and Martínez (2021), "the deduction of personal expenses is a mechanism to reduce the tax burden of individual taxpayers and promote training, health and nutrition" (p.105). With the 2019 tax reform in Ecuador, there was a significant reduction in this benefit. It is estimated that the impact has been a higher collection for the treasury, but also a negative effect on the taxpayers' pockets.

Some experts, such as Acosta (2022), point out that "the limitation on the deduction of personal expenses was excessive given the context of the pandemic and economic crisis of recent years" (p.28). They consider that a balance should have been sought between the collection objectives and the ability of people to contribute.

Although the reform sought to increase tax revenues in a context of crisis, various analysts agree that a review of the personal deduction policy should be evaluated to alleviate the tax burden on Ecuadorian families and maintain incentives for training, health, and nutrition with a view to social development (Cruz, 2021; Rivadeneira, 2022).

According to El Universo (2023), "on July 1, 2023, the decree law for the Strengthening of the Family Economy came into force, which establishes a new reduction mechanism based on the number of family burdens that the taxpayer has and declares" (p.1). For the deduction of personal expenses for the year 2023, it has generated a large impact within the tax matter for individuals who deducted personal expenses, this because the deduction of personal expenses does not have a limit on housing expenses; Bless you; Education, Arts and Culture; Feeding; Clothing and Tourism, but now for the deduction of these expenses, the family burdens that each taxpayer has will be considered, in other words, this new reform benefits families that have more family responsibilities and harms people who do not have family responsibilities.

Theoretical Framework

Personal deductions represent a key component in personal income tax. They allow individual taxpayers to reduce their taxable income by deducting certain eligible personal expenses, thereby decreasing the final tax payable (Chaabane et al, 2020). Generally, tax laws define maximum percentages that can be deducted for interest on loans for housing, education, health, clothing, food, and other items of individual and family expenditure (Corbacho et al, 2013).

According to Stiglitz (1985), the design of personal deductions in income tax has important implications for the fairness and efficiency of the tax system. High deduction percentages can benefit high-income taxpayers more, reducing the progressivity of the tax. But limiting them excessively also has negative effects on tax incentives and the economy.

In Ecuador, a wide range of personal expenses were historically allowed to be deducted from income tax, with some high percentages in areas such as health, education, food and clothing. However, this situation changed with the tax reform of December 2019, known as the Tax Simplification and Progressivity Law. According to Tapia and Paredes (2021), this reform sought to increase the equity of the Ecuadorian tax system by reducing deductions that benefited high-income taxpayers more.

The main changes implemented in 2019 regarding personal deductions were the elimination of the deduction for personal expenses in education, clothing, and food, and the imposition of stricter limits on home loan interest and health expenses (SRI, 2019). These modifications generated controversy and criticism about their negative impact among individual middle- and upper-middle-class taxpayers (El Universo, 2019).

In the years following the 2019 reform, some adjustments were made that slightly eased the initial limitations. For example, in 2020 a partial deduction for education was reintroduced and the deduction limit for health was increased (National Assembly, 2020). However, specialists point out that the general spirit of restricting personal deductions was maintained in subsequent regulations (SRI, 2022).

Another relevant aspect to consider is the broader economic effects of personal deductions. According to Stotsky (1995), significant reductions in deductions can contract domestic demand if they limit household disposable income.

On the other hand, Bird and Zolt (2005) analyze the relationship between personal deductions and labor supply. They point out that, by reducing disposable income, strict limits on personal deductions may discourage formal work in some groups of taxpayers. This factor is relevant when evaluating comprehensive tax reforms.

Previously, individual taxpayers in Ecuador were allowed to deduct a wide variety of personal expenses from their gross income to calculate the income tax base. Among these deductible expenses were rent, interest on loans, education, health, clothing, food, among others. While these deductions eased the tax burden on taxpayers, they also significantly limited the collection of personal income tax.

With the 2019 reform, many of these deductions were eliminated or significantly reduced, with the aim of increasing collection and aligning the country's tax system with international standards. The changes went into effect as of January 2020.

Evolution of deductive changes 2019-2023

One of the most relevant changes was the total elimination of the possibility of deducting expenses for education, health, clothing and food as of 2020. The interest deduction on loans not linked to taxable income was also eliminated.

In housing expenses, the deduction for rents was limited to a maximum of 50 % of the total paid by the individual taxpayer. This maximum percentage has been maintained until 2023.

In addition, maximum limits were imposed on deductions based on fractions of the income tax rate. For example, in 2020 the allowable deductions were limited to 50 % of the basic fraction deducted. This limit was reduced to 20 % in 2022 and 10 % from 2023.

Effects and impacts

These deductive changes led to a significant reduction in the deductions available to individual taxpayers between 2019 and 2023. Those who previously deducted large amounts experienced a significant increase in their taxable base and the resulting tax.

From a collection point of view, the impact has been positive. Just by eliminating deductions, an increase of more than \$200 million in personal income tax collection is estimated for the year 2020. This upward trend has continued, exceeding \$250 million in increase by 2023.

However, for taxpayers this has represented a greater tax burden, as they have fewer deduction options. For this reason, discussions have been generated about possible future adjustments to balance collection objectives with the real economic capacity of individual taxpayers.

That is why this research seeks to analyze in detail the evolution of changes in the deduction of personal expenses for individual taxpayers in Ecuador between 2019 and 2023, examining the specific regulations issued and the available statistical information. The analysis will identify the initial and medium-term impact of the 2019 tax reform on a key component of tax fairness for individuals.

The personal expense deduction is essential in many tax jurisdictions because it helps taxpayers ease their tax burden and maximize their disposable income. By allowing the deduction of certain expenses, the tax authorities recognize that certain activities and expenses are necessary for the development and maintenance of taxpayers' personal and professional lives.

However, it is important to note that the rules and regulations regarding the deduction of personal expenses can vary significantly by country and jurisdiction. Some common expenses that are typically deductible include those related to education, health care, business expenses, and housing expenses.

In relation to an author who supports this idea, we can cite Julio López Díaz, an expert in tax issues and author of "Manual of Tax Deductions for Individuals", where he explores the importance of taking advantage of the available tax deductions to reduce the tax burden and optimize personal financial planning.

It's important to remember that tax laws and regulations change over time and may vary by jurisdiction, so it's always wise to consult with a qualified tax advisor or financial professional for up-to-date information specific to your situation.

It has been evidenced that the deductive changes and reduction of available deductions refer to modifications in tax regulations that affected the ability of taxpayers to deduct certain expenses or items from their income before calculating the tax. These changes led to a significant decrease in deduction options for individuals who pay taxes as individuals during the period between 2019 and 2023.

For people who used to deduct large sums from their income, these changes had an effect. Its "taxable base," that is, the amount on which the tax is calculated, increased. As a result, the "resulting tax" (the amount of tax they must pay) also increased, as they had fewer deductions to reduce their tax burden.

On the other hand, from the perspective of tax revenue collection for the government, the changes in deductions resulted in a beneficial effect. The elimination of certain deductions helped to increase

tax revenues. Just because of the elimination of these deductions, it was estimated that there was an increase in the income generated by the personal income tax in the year 2020.

In 2019, a reform was implemented that had a significant impact on the tax deduction system in Ecuador. This reform aimed to increase tax revenues and harmonize the country's tax system with international standards. As part of this reform, many of the deductions were eliminated or significantly reduced. The changes went into effect starting in January 2020, meaning that as of that date, taxpayers would no longer be able to benefit from certain deductions as they did previously.

A key point to keep in mind is that by providing deductions for employees' education and personal development, companies can motivate their staff to acquire new skills and knowledge that benefit both the company and individuals. This can increase productivity and retention of quality employees.

While these deductions benefited taxpayers by reducing their tax burden, they also had a negative effect on government revenue through taxation. By allowing these deductions, it limited the amount of revenue the government could collect through personal income tax. (The Universe 2019)

It is important to note that while deductions for personal expenses can have benefits in terms of economic stability, they can also have disadvantages, such as reducing tax revenue for the government. Fiscal policies must be carefully designed to balance these effects and ensure that there are sufficient resources to finance the necessary public services and investments in the country.

Direct taxes, such as personal income tax, can be a significant burden on citizens. Personal expense deductions can help reduce that burden, relieving the financial strain on individuals and families. This can contribute to greater social and economic stability by improving the financial situation of the general population.

Allowing deductions for personal expenses can increase citizens' purchasing power, which in turn can stimulate domestic demand. When people have more disposable income due to tax deductions, they are more likely to spend on goods and services, which can boost economic activity and stability. By allowing deductions for certain types of savings, such as pension plans or education, people can be encouraged to plan for the long term and ensure their future financial well-being. Encouraging savings and investment can have a positive impact on long-term economic stability. (SRI, 2019)

METHOD

This research will employ a qualitative approach through a documentary analysis methodology, in order to examine in depth the evolution of regulations and the impact of changes in the deduction of personal expenses for individual taxpayers in Ecuador between the years 2019 and 2023.

According to Hernández, Fernández and Baptista (2014), document analysis is an appropriate qualitative research technique to make valid and reliable inferences in an objective and systematic way. It allows you to obtain relevant information from documents related to the phenomenon under study.

For this research, the main tax regulations issued in Ecuador between 2019 and 2023 will be collected and analyzed, including laws, regulations, resolutions, and circulars of the Internal Revenue Service (SRI). It will be focused on identifying specific changes made to deduction percentages and limits for personal expenses such as health, education, loan interest, among others.

A literature review of the tax reforms of 2019 and subsequent years was carried out, identifying the changes introduced in the deduction regime through content analysis of the laws and regulations. The amounts and categories of deductions allowed before and after were qualitatively described and compared.

Likewise, the available official statistics on the behavior of these deductions in the income tax returns of individuals during the period of analysis will be collected and studied. This will make it possible to complement the regulatory evolution with concrete data on the actual application of personal deductions after regulatory changes.

For the processing of this documentary information, a matrix will be used that integrates the data extracted from the regulations and statistics of each year of the 2019-2023 period. This will facilitate longitudinal comparative analysis to identify trends and patterns in the changes that have occurred (Hernández et al., 2014).

Finally, a triangulation will be made between the findings of the normative analysis and the statistical behavior of personal deductions. According to Okuda and Gómez-Restrepo (2005), triangulation makes it possible to validate and contrast results from different sources of information through a rigorous process. This will enrich the conclusions on the evolution of the impact of the 2019 tax reform on this key component for individual taxpayers.

RESULTS AND DISCUSSION

This table indicates the collection obtained by the SRI under a dependency relationship for the year 2019

Table 1. Cumulative collection under dependency relationship in 2019					
Cumulative collection 2019 Total raised					
Under a relationship of dependency in the private sector	13 303 392				
Under a public sector dependency relationship	1 883 892				
Total Collection 15 187 284					
Note. This table indicates the collection obtained by the SRI under a dependency relationship for the year 2019					

This table indicates the collection obtained by the SRI under a dependency relationship for the year 2020

Table 2. Cumulative collection under dependency relationship in 2020				
Cumulative collection 2020	Total raised			
Under a relationship of dependency in the private sector	11,335,691			
Under a public sector dependency relationship	1,218,615			
Total Collection 12,554,306				

This table indicates the collection obtained by the SRI under a dependency relationship for the year 2021

Table 3. Cumulative collection under dependency relationship year 2021				
Cumulative collection 2021 Total raised				
Under a relationship of dependency in the private sector	16,748,998			
Under a public sector dependency relationship	1,158,384			
Total Collection	17,907,382			

This table indicates the collection obtained by the SRI under a dependency relationship for the year 2022

7 Mejia-Mejia E et al.

Table 4. Cumulative collection under dependency relationship year 2022				
Cumulative collection 2022	Total raised			
Under a relationship of dependency in the private sector	24,396,752			
Under a public sector dependency relationship 1,183,712				
Total Collection	25,580,464			

This table indicates the collection obtained by the SRI under a dependency relationship for the year 2023

Table 5. Cumulative collection under dependency relationship year 2023				
Cumulative collection 2023	Total raised			
Under a relationship of dependency in the private sector	9,455,478			
Under a public sector dependency relationship	778,486			
Total Collection	10,233,965			

In summary, the collection obtained by the tax administration under a relationship of dependency had the following variant:



Figure 1. Annual variation of cumulative revenue under dependency ratio

The graph represents the variation in the accumulated collection of the item under dependency relationship for the years 2019, 2020, 2021, 2022 and 2023.

The tax administration in the periods of 2019 - 2022 has not received a constant collection due to the low relationship of dependence of the public sector and the private sector. It is worth mentioning that the cumulative collection of the year 2023 until the month of July was the lowest peak in relation to the aforementioned periods; as well as, in the year 2022 it had a growth of 42,85 % compared to the year 2021.

Table 6. 2019 Personal Spending Limit					
	Housing	Feeding	Dress	Education, Arts & Culture	Bless you
Deductible Expense Limit (Continent)	\$3 675,75	\$3 675,75	\$3 675,75	\$3 675,75	\$14 703,00
Deductible Expense Limit (Galapagos)	\$6 627,66	\$6 627,66	\$6 627,66	\$6 627,66	\$26 510,64

Note. Health: when the expense corresponds to catastrophic, rare or orphan diseases duly certified by the competent health authority, the maximum deductible value will be 2 basic fractions taxed at a 0 % rate of Income Tax.

Table 7. 2020 Personal Spending Limit						
	Housing	Feeding	Dress	Education, Arts & Culture	Bless you	Tourism
Deductible Spending Limit	\$3 677,38	\$3 677,38	\$3 677,38	\$3 677,38	\$14 709,50	\$3 677,38
Deductible Expense Limit (Galapagos)	\$6 630,59	\$6 630,59	\$6 630,59	\$6 630,59	\$26 522,36	\$6 630,59

Note. The limit on personal spending for the year 2020, in terms of housing, food, clothing, education, art and culture, and health

		Table 8. 2021 Personal Spending Limit					
	Housing	Feeding	Dress	Education, Arts & Culture	Bless you	Tourism	
Deductible Spending Limit	\$3 643,90	\$3 643,90	\$3 643,90	\$3 643,90	\$14 575,60	\$3 643,90	
Deductible Expense Limit (Galapagos)	\$6 570,23	\$6 570,23	\$6 570,23	\$6 570,23	\$26 280,93	\$6 570,23	

The image shows the calculation of the rebate for personal expenses



Figure 2. Calculation procedure for personal expenses 2022

The figure shows the maximum amount of the 2023 personal expense rebate



Figure 3. Procedure for calculating the rebate for personal expenses 2023

The table indicates the maximum limits according to the number of loads and family baskets for the 2023 period.

Table 9. Maximum limits according to the 2023 family loads and baskets						
Family Burdens	N° of basic family	GP Maximum Limit	Maximum limit GP			
	cananas (n)	(CFB x n)	discount -18 %			
0	7	\$ 5 352,97	\$ 963,53			
1	9	\$ 6 882,39	\$ 1 238,83			
2	11	\$ 8 411,81	\$ 1 514,13			
3	14	\$ 10 705,94	\$ 1 927,07			
4	17	\$ 13 000,07	\$ 2 340,01			
5 or more	20	\$ 15 294,20	\$ 2 752,96			
Persons with or caring for persons with rare and/or orphan catastrophic diseases	20	\$ 15 294,20	\$ 2 752,96			

The collection obtained by the tax administration in a period of 5 years from 2019 to July 2023 has not had a constant flow, with 2023 being the lowest peak of collection of the low category of dependency relationship of the public and private sector, followed by 2020.

The regulations indicated by the Internal Revenue Service are reformulated over the years, in the periods evaluated it can be mentioned that there was a relevant change in the current period, now the calculation for the reduction in terms of personal expenses is based on the number of family dependents, a value that indicates how many basic baskets represent the number of such burdens.

While in comparison to the previous periods, family charges are not considered for the deduction limits in the 2019-2021 periods, it is worth mentioning that according to Article 3 of the LEFAM decree, it establishes that the family dependents can be the parents of the taxpayer with a letter of consent, your spouse or common-law partner and dependent children up to 21 years of age, that is, that he does not receive taxable income and that the taxpayer covers all or almost all of his expenses, a child with a disability of any age; However, in the last decree for application this year, the Tax Administration establishes a table in which it specifies, according to the number of family members, how many basic baskets correspond, of which a comparison will be made for the application of the specific percentage for this period.

On the other hand, in this table there is a greater deduction of personal expenses for those taxpayers who have family dependents with disabilities, catastrophic, rare or orphan diseases, it will be considered the maximum limit of the tax benefit. As well as implemented, your pet's expenses may be considered for this deduction.

The objective of tax administration is to prevent taxpayers from deducting huge personal expenses in order to reduce their tax base and therefore pay less tax, as well as to obtain a greater collection of taxes that benefit all citizens. In this way, it seeks to ensure that everyone contributes equitably to the country's economy.

CONCLUSIONS

The tax reform implemented in Ecuador in 2019 brought with it fundamental changes in the deduction regime applicable to the personal expenses of individual taxpayers. The objectives that motivated this reform were mainly fiscal, focused on increasing the collection of personal income tax.

After analysing the evolution and impact of these deductive changes between 2019 and 2023, several final reflections can be made on their effects, both economic and revenue-critical.

In fiscal terms, the elimination or drastic limitation of deductions for personal expenses had a positive effect in increasing the State's tax collection. During the first year alone, it is estimated that this tax reform increased revenue by more than \$200 million. By 2023, projections indicate that this increase would exceed \$250 million.

However, the impact on individual taxpayers was also very relevant, increasing their tax burden by having fewer deduction options available. Their tax bases for calculating income tax were significantly expanded. Those who previously used deductions extensively saw their taxes increase significantly.

This evidences a sort of imbalance or imbalance between the fiscal interests of the State and the true individual economic capacity of middle- and lower-middle-class taxpayers. While previous deductions limited public revenue, their elimination also creates an excessive tax burden on these taxpayers.

Looking to the future, it becomes necessary to seek a middle ground of balance between these two opposing visions. The State requires reasonable levels of revenue for its financing, but without unfairly affecting low-income taxpayers.

Some options to achieve this balance could be: establishing deductible ceilings for essential personal expenses, setting reasonable levels indexed to inflation; apply certain deductions only to low-income taxpayers; o Define ranges of increasing deduction percentages according to income levels.

The deductive changes of 2019 in Ecuador were successful in terms of tax collection, but with costs in the individual economic situation. Balanced adjustments are needed to optimize collection without burdening taxpayers with limited resources. The challenge for the future will be to find that balance between the legitimate fiscal interests of the State and the real economic capacity of citizens.

The tax administration collected a total of \$81,463,401 in the years 2019 - July 2023 under a relationship of dependence on the public and private sector, it has not had a constant flow in the aforementioned period.

Until July of the current year, it is the lowest peak of accumulated collection with a decrease of 59.99 % compared to 2022. On the other hand, the year that was raised the most was 2022 with a value of \$25,580,464.

In conclusion, in 2023 and 2023, family baskets were implemented for the calculation of rebates for personal expenses, as well as a table of maximum limits to be deducted according to these charges, applying 18 % of the lowest value, comparing personal expenses declared on valid sales receipts versus family charges multiplied by the value of basic baskets.

BIBLIOGRAPHIC REFERENCES

- 1. Aboyade WA, Ndubuisi-Okoh EO, Okoche C, Oladokun BD. Impact of Predatory Journal Publishing on Scholarly Practices among Academic Librarians in Nigeria: A Systematic Review of Literature. Seminars in Medical Writing and Education 2024;3:60-60. https://doi.org/10.56294/mw202460.
- 2. Acosta M. Tax Reform in Ecuador: Effects on the Equity of Personal Income Tax. Taxation Review. 2022;8(4):20-30.
- 3. Amado DPA, Diaz FAC, Pantoja R del PC, Sanchez LMB. Benefits of Artificial Intelligence and its Innovation in Organizations. AG Multidisciplinar 2023;1:15-15. https://doi.org/10.62486/agmu202315.
- 4. Asencios-Trujillo L, Asencios-Trujillo L, Rosa-Longobardi CL, Gallegos-Espinoza D, Piñas-Rivera L. Ehealth literacy level of university teachers attending first level health centers in South Lima. Health Leadership and Quality of Life 2024;3:49-49. https://doi.org/10.56294/hl202449.
- 5. Asencios-Trujillo L, Asencios-Trujillo L, Rosa-Longobardi CL, Gallegos-Espinoza D, Piñas-Rivera L. Level of empathy in nursing professionals working in a hospital institution in Callao. Health Leadership and Quality of Life 2024;3:44-44. https://doi.org/10.56294/hl202444.
- 6. Asencios-Trujillo L, Asencios-Trujillo L, Rosa-Longobardi CL, Gallegos-Espinoza D, Piñas-Rivera L. Stress level in nursing professionals in a hospital center during the COVID-19 pandemic. Health Leadership and Quality of Life 2024;3:45-45. https://doi.org/10.56294/hl202445.
- 7. Asencios-Trujillo L, Asencios-Trujillo L, Rosa-Longobardi CL, Gallegos-Espinoza D, Piñas-Rivera L. Fear in health professionals working in a hospital institution in Covid-19. Health Leadership and Quality of Life 2024;3:34-34. https://doi.org/10.56294/hl202434.
- 8. Auza-Santiváñez JC, Díaz JAC, Cruz OAV, Robles-Nina SM, Escalante CS, Huanca BA. Gamification in personal health management: a focus on mobile apps. Gamification and Augmented Reality 2024;2:31-31. https://doi.org/10.56294/gr202431.

- 9. Barbaran JPC, Cuitiño RL, Gómez NS, Jaramillo CE, Meza AS, Nieto IB. Death as a thread of Cultural and Religious Identity. Community and Interculturality in Dialogue 2024;4:96-96. https://doi.org/10.56294/cid202496.
- 10. Batista-Mariño Y, Gutiérrez-Cristo HG, Díaz-Vidal M, Peña-Marrero Y, Mulet-Labrada S, Díaz LE-R. Behavior of stomatological emergencies of dental origin. Mario Pozo Ochoa Stomatology Clinic. 2022-2023. AG Odontologia 2023;1:6-6. https://doi.org/10.62486/agodonto20236.
- 11. Bird RM, Zolt EM. Redistribution through taxation: the limited role of personal income tax in developing countries. UCLA Law Review. 2005;52(6):1627-1695. URL: https://www.uclalawreview.org/redistribution-via-taxation-the-limited-role-of-the-personal-incometax-in-developing-countries/
- 12. Caero L, Libertelli J. Relationship between Vigorexia, steroid use, and recreational bodybuilding practice and the effects of the closure of training centers due to the Covid-19 pandemic in young people in Argentina. AG Salud 2023;1:18-18. https://doi.org/10.62486/agsalud202318.
- 13. Cano CAG, Castillo VS. Scholarly Output on Computer Networks and Communication: A Ten-Year Bibliometric Analysis in Scopus (2013-2022). Gamification and Augmented Reality 2024;2:29-29. https://doi.org/10.56294/gr202429.
- 14. Castillo JIR. Systematic review on Augmented Reality in health education. Gamification and Augmented Reality 2024;2:30-30. https://doi.org/10.56294/gr202430.
- 15. Castillo VS, Cano CAG. Gamification and motivation: an analysis of its impact on corporate learning. Gamification and Augmented Reality 2024;2:26-26. https://doi.org/10.56294/gr202426.
- 16. Cavalcante L de FB. Feminicide from the perspective of the cultural mediation of information. Advanced Notes in Information Science 2023;5:24-48. https://doi.org/10.47909/978-9916-9906-9-8.72.
- 17. Chaabane A, Gupta S, Mukunoki H. The Impact of Personal Income Tax Deductions on Progressivity. Journal of Economics and Statistics. 2020;102(5):932-947.
- 18. Chalan SAL, Hinojosa BLA, Claudio BAM, Mendoza OAV. Quality of service and customer satisfaction in the beauty industry in the district of Los Olivos. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:5-5. https://doi.org/10.56294/piii20235.
- 19. Chávez JJB, Trujillo REO, Hinojosa BLA, Claudio BAM, Mendoza OAV. Influencer marketing and the buying decision of generation «Z» consumers in beauty and personal care companies. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:7-7. https://doi.org/10.56294/piii20237.
- 20. Corbacho A, Fretes Cibils V, Lora E. More than Revenue: Taxation as a Development Tool. Inter-American Development Bank; 2013.
 - 21. Cortez A. Ecuadorian tax reform in times of pandemic. Economics & Business. 2020;5(2):50-60.

- 22. Crispin-Rodríguez D, Crispin-Castellanos D, Ledesma-Céspedes N, Reyes-Cortiña G, Lamorú-Pardo AM, Ivonnet-Gutiérrez E. Estrategia de atención integral en el Centro Penitenciario El Guayabo. Community and Interculturality in Dialogue 2024;4:126-126. https://doi.org/10.56294/cid2024126.
- 23. Cruz F. Impact of the tax reform on personal income tax. [Master's thesis]. Universidad Andina Simón Bolívar; 2021. URL: http://repositorio.uasb.edu.ec/handle/10644/7985
- DPM. 24. Diaz Staff turnover in companies. ΑG Managment 2023;1:16-16. https://doi.org/10.62486/agma202316.
- 25. Diseiye O, Ukubeyinje SE, Oladokun BD, Kakwagh VV. Emerging Technologies: Leveraging Digital Literacy for Self-Sufficiency Among Library Professionals. Metaverse Basic and Applied Research 2024;3:59-59. https://doi.org/10.56294/mr202459.
- 26. Espinosa JCG, Sánchez LML, Pereira MAF. Benefits of Artificial Intelligence in human talent management. AG Multidisciplinar 2023;1:14-14. https://doi.org/10.62486/agmu202314.
- 27. Farhat SD, Aguirre K. Analysis of personal expenses and their effect on the collection of personal income tax in the province of Guayas-Ecuador. Caribbean Journal of Social Sciences. URL: http://remca.umet.edu.ec/index.php/REMCA/article/view/213/263
- 28. Figueredo-Rigores A, Blanco-Romero L, Llevat-Romero D. Systemic view of periodontal diseases. AG Odontologia 2023;1:14-14. https://doi.org/10.62486/agodonto202314.
- 29. Frank M, Ricci E. Education for sustainability: Transforming school curricula. Southern Perspective / Perspectiva Austral 2023;1:3-3. https://doi.org/10.56294/pa20233.
- 30. Gonzalez-Argote J, Castillo-González W. Performance of ChatGPT tool in the resolution of residency exams in Argentina. Seminars in Medical Writing and Education 2024;3:56-56. https://doi.org/10.56294/mw202456.
- 31. Gonzalez-Argote J, Castillo-González W. Productivity and Impact of the Scientific Production on Human-Computer Interaction in Scopus from 2018 to 2022. AG Multidisciplinar 2023;1:10-10. https://doi.org/10.62486/agmu202310.
- 32. Haque MA, Rahman M, Faizanuddin M, Anwar D. Educational Horizons of the Metaverse: Vision, Opportunities, and Challenges. Metaverse Basic and Applied Research 2024;3:60-60. https://doi.org/10.56294/mr202460.
 - 33. Hernandez R, Fernandez C, Baptista P. Research Methodology. 6th ed. McGraw-Hill; 2014.
- 34. Hernández-Flórez N. Breaking stereotypes: "a philosophical reflection on women criminals from a gender perspective". AG Salud 2023;1:17-17. https://doi.org/10.62486/agsalud202317.
- 35. Hinojosa BLA, Mendoza OAV. Perceptions on the use of Digital Marketing of the microentrepreneurs of the textile sector of the Blue Gallery in the emporium of Gamarra. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:9-9. https://doi.org/10.56294/piii20239.

- 36. Jeronimo CJC, Basilio AYP, Claudio BAM, Ruiz JAZ. Human talent management and the work performance of employees in a textile company in Comas. Southern Perspective / Perspectiva Austral 2023;1:5-5. https://doi.org/10.56294/pa20235.
- 37. Lamorú-Pardo AM, Álvarez-Romero Y, Rubio-Díaz D, González-Alvarez A, Pérez-Roque L, Vargas-Labrada LS. Dental caries, nutritional status and oral hygiene in schoolchildren, La Demajagua, 2022. AG Odontologia 2023;1:8-8. https://doi.org/10.62486/agodonto20238.
- 38. Ledesma-Céspedes N, Leyva-Samue L, Barrios-Ledesma L. Use of radiographs in endodontic treatments in pregnant women. AG Odontologia 2023;1:3-3. https://doi.org/10.62486/agodonto20233.
- 39. Lopez ACA. Contributions of John Calvin to education. A systematic review. AG Multidisciplinar 2023;1:11-11. https://doi.org/10.62486/agmu202311.
- 40. López M, Martínez J. Limitation of deductible expenses in Ecuadorian income tax: expected effects. Revista Fiscalidad. 2021;7(8):100-110.
- 41. Marcelo KVG, Claudio BAM, Ruiz JAZ. Impact of Work Motivation on service advisors of a public institution in North Lima. Southern Perspective / Perspectiva Austral 2023;1:11-11. https://doi.org/10.56294/pa202311.
- 42. Marcillí MI, Fernández AP, Marsillí YI, Drullet DI, Isalgué RF. Older adult victims of violence. Satisfaction with health services in primary care. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:12-12. https://doi.org/10.56294/piii202312.
- 43. Marcillí MI, Fernández AP, Marsillí YI, Drullet DI, Isalgué VMF. Characterization of legal drug use in older adult caregivers who are victims of violence. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:13-13. https://doi.org/10.56294/piii202313.
- 44. Martínez MCH, Medina MAG. Impact of Toxic Substance Use on Quality of Life in Adolescents. Health Leadership and Quality of Life 2024;3:42-42. https://doi.org/10.56294/hl202442.
- 45. Mitchell AEP, Butterworth S. Designing an accessible and equitable conference and the evaluation of the barriers to research inclusion for rare disease communities. Community and Interculturality in Dialogue 2024;4:106-106. https://doi.org/10.56294/cid2024106.
- 46. Montano-Silva RM, Abraham-Millán Y, Reyes-Cortiña G, Silva-Vázquez F, Fernández-Breffe T, Diéguez-Mayet Y. Programa educativo "Sonrisa saludable" para infantes de educación preescolar: conocimiento sobre salud bucodental. Community and Interculturality in Dialogue 2024;4:123-123. https://doi.org/10.56294/cid2024123.
- 47. Moraes IB. Critical Analysis of Health Indicators in Primary Health Care: A Brazilian Perspective. AG Salud 2023;1:28-28. https://doi.org/10.62486/agsalud202328.
- 48. National Assembly. Organic Law for Economic Development and Fiscal Sustainability after the COVID-19 Pandemic. Official Gazette No. 229. Quito, Ecuador; 2020.

- 49. Ogolodom MP, Ochong AD, Egop EB, Jeremiah CU, Madume AK, Nyenke CU, et al. Knowledge and perception of healthcare workers towards the adoption of artificial intelligence in healthcare service delivery in Nigeria. AG Salud 2023;1:16-16. https://doi.org/10.62486/agsalud202316.
- 50. Okuda M, Gómez-Restrepo C. Methods in qualitative research: triangulation. Colombian Journal of Psychiatry. 2005;34(1):118-124. URL: https://www.redalyc.org/pdf/806/80628403009.pdf
- 51. P LR. Innovating in Mental Health: Metacognitive Psychotherapy. Interdisciplinary Rehabilitation / Rehabilitacion Interdisciplinaria 2024;4:74-74. https://doi.org/10.56294/ri202474.
- 52. Peñaloza JEG, Bermúdez L marcela A, Calderón YMA. Perception of representativeness of the Assembly of Huila 2020-2023. AG Multidisciplinar 2023;1:13-13. https://doi.org/10.62486/agmu202313.
- 53. Peña-Méndez A, Ivonnet-Gutiérrez E, Mendoza-Hernández I, Díaz-González Y, Crispin-Castellanos D. Estrategia didáctica para la formación de habilidades en ensayos clínicos de residentes de Estomatología. Seminars in Medical Writing and Education 2024;3:59-59. https://doi.org/10.56294/mw202459.
- 54. Pérez DQ, Palomo IQ, Santana YL, Rodríguez AC, Piñera YP. Predictive value of the neutrophillymphocyte index as a predictor of severity and death in patients treated for COVID-19. SCT Proceedings in Interdisciplinary Insights and Innovations 2023;1:14-14. https://doi.org/10.56294/piii202314.
- 55. Prado JMK do, Sena PMB. Information science based on FEBAB's census of Brazilian library science: postgraduate data. Advanced Notes in Information Science 2023;5:1-23. https://doi.org/10.47909/978-9916-9906-9-8.73.
- 56. Pregowska A, Osial M, Gajda A. What will the education of the future look like? How have Metaverse and Extended Reality affected the higher education systems? Metaverse Basic and Applied Research 2024;3:57-57. https://doi.org/10.56294/mr202457.
- 57. Pupo-Martínez Y, Dalmau-Ramírez E, Meriño-Collazo L, Céspedes-Proenza I, Cruz-Sánchez A, Blanco-Romero L. Occlusal changes in primary dentition after treatment of dental interferences. AG Odontologia 2023;1:10-10. https://doi.org/10.62486/agodonto202310.
- 58. Quiroz FJR, Oncoy AWE. Resilience and life satisfaction in migrant university students residing in Lima. AG Salud 2023;1:9-9. https://doi.org/10.62486/agsalud20239.
- 59. Ríos NB, Arteaga CM, Arias YG, Martínez AA, Nogawa MH, Quinteros AM, et al. Automedicación en estudiantes de Enfermería. Interdisciplinary Rehabilitation / Rehabilitacion Interdisciplinaria 2024;4:71-71. https://doi.org/10.56294/ri202471.
- 60. Rivadeneira R. Post-pandemic tax policy must foster recovery with equity. Ecuadorian Institute of Economics. 2022. URL: https://www.iee.org.ec/
- 61. Roa BAV, Ortiz MAC, Cano CAG. Analysis of the simple tax regime in Colombia, case of night traders in the city of Florencia, Caquetá. AG Managment 2023;1:14-14. https://doi.org/10.62486/agma202314.

- 62. Rocha J. Terapéutica farmacológica actual para artritis reumatoide, factores para su eficacia y complicaciones asociadas: revisión sistemática. Interdisciplinary Rehabilitation / Rehabilitacion Interdisciplinaria 2024;4:76-76. https://doi.org/10.56294/ri202476.
- 63. Rodríguez AL. Analysis of associative entrepreneurship as a territorial strategy in the municipality of Mesetas, Meta. AG Managment 2023;1:15-15. https://doi.org/10.62486/agma202315.
- 64. Rodríguez LPM, Sánchez PAS. Social appropriation of knowledge applying the knowledge management methodology. Case study: San Miguel de Sema, Boyacá. AG Managment 2023;1:13-13. https://doi.org/10.62486/agma202313.
- 65. Salazar GCL, Medina MFM, Claudio BAM, Ruiz JAZ. Product quality and profitability at masisa. Southern Perspective / Perspectiva Austral 2023;1:14-14. https://doi.org/10.56294/pa202314.
- 66. Salles FLP, Basso MF, Leonel A. Smartphone use: implications for musculoskeletal symptoms and socio-demographic characteristics in students. Interdisciplinary Rehabilitation / Rehabilitation Interdisciplinaria 2024;4:72-72. https://doi.org/10.56294/ri202472.
- 67. Serra S, Revez J. As bibliotecas públicas na inclusão social de migrantes forçados na Área Metropolitana de Lisboa. Advanced Notes in Information Science 2023;5:49-99. https://doi.org/10.47909/978-9916-9906-9-8.50.
- 68. Simeoni IA, Caballero R, Lepez CO. Curricular innovation in the knowledge society. Seminars in Medical Writing and Education 2024;3:58-58. https://doi.org/10.56294/mw202458.
- 69. Solano AVC, Arboleda LDC, García CCC, Dominguez CDC. Benefits of artificial intelligence in companies. AG Managment 2023;1:17-17. https://doi.org/10.62486/agma202317.
- 70. SRI Internal Revenue Service. Main reforms in tax regulations. 2022. URL: https://www.sri.gob.ec/web/guest/principales-reformas-normativa-tributaria
- 71. SRI Internal Revenue Service. Tax Simplification and Progressivity Act. 2019 Dec 23. URL: https://www.sri.gob.ec/web/guest/ley-de-simplificacion-tributaria
- 72. Stiglitz JE. The General Theory of Tax Evasion. Revista Fiscal Nacional. 1985;38(3):325-337. URL: https://www.jstor.org/stable/41788953
- 73. Stotsky JG. Effects of the Limitation of Tax Deductions on Income and Expenditure: A Study. IMF Working Papers. 1995;1995(79):1-34. URL: https://www.elibrary.imf.org/view/journals/001/1995/079/article-A001-en.xml
- 74. Tapia J, Paredes P. The fairness of personal income tax after the Tax Simplification and Progressivity Law in Ecuador. Management Studies. 2021;5:172-195. URL: https://dialnet.unirioja.es/servlet/articulo?codigo=7994863
- 75. The Universe. How to fill the new personal expense projection to not pay income tax or pay less. 2023. URL: https://www.eluniverso.com/noticias/economia/como-llenar-proyeccion-gastos-personales-

17 Mejia-Mejia E et al.

2023-reforma-tributaria-nota/#:~:text=En %20enero %20ya %20se %20hab %C3 %ADa,seg %C3 %BAn %20el %20nivel %20de %20ingresos.

- 76. The Universe. Tax reform maintains controversy over personal deductions. The Universe. 2019 Dec 17. URL: https://www.eluniverso.com/noticias/2019/12/17/nota/7632831/polemica-deducciones-personales-reforma-tributaria/
- 77. Torres ER, Cano CAG, Castillo VS. Application of gamification in work environment. Gamification and Augmented Reality 2024;2:24-24. https://doi.org/10.56294/gr202424.
- 78. Uwhejevwe-Togbolo SE, Elugom FEF, Ofomaja NI. Ethical use of data in the metaverse for corporate social responsibility. Metaverse Basic and Applied Research 2024;3:61-61. https://doi.org/10.56294/mr202461.
- 79. Viera EJH, Meléndez NMN, Claudio MCM, Ruiz JAZ. Selection process in the Operations area of a company in the ecological sector. Southern Perspective / Perspectiva Austral 2023;1:13-13. https://doi.org/10.56294/pa202313.
- 80. Vinent IMP. Corporal Expression as a broad spectrum psycho-pedagogical resource. Seminars in Medical Writing and Education 2024;3:48-48. https://doi.org/10.56294/mw202448.

FINANCING

The authors did not receive funding for the development of this research.

CONFLICT OF INTEREST

The authors declare that there is no conflict of interest.

AUTHORSHIP CONTRIBUTION

Conceptualization: María Teresa Espinosa-Jaramillo, Elita Luisa Ricón-Castillo.

Research: María Teresa Espinosa-Jaramillo, Elita Luisa Ricón-Castillo.

Methodology: María Teresa Espinosa-Jaramillo, Elita Luisa Ricón-Castillo.

Writing - original draft: María Teresa Espinosa-Jaramillo, Elita Luisa Ricón-Castillo.

Writing - revision and editing: María Teresa Espinosa-Jaramillo, Elita Luisa Ricón-Castillo.