

PROJECT FOR BUILDING A CLINIC TO APPLY TREATAMENT OF SENSORY INTEGRATION IN PIRACICABA – SP BRAZIL



1. INTRODUCTION ABOUT TREATMENT WITH SENSORY INTEGRATION

The theory of sensory integration described and developed by Jean Ayres in the late 1950s and early 1960s, based on a review of the literature on development, neurobiology, psychology, education, and clinical experience. Ayres formulated hypotheses in which psycho neurological functions may be implicated in learning disorders.

The definition of sensory integration, by Ayres (1972), is: the neurological process that organizes the sensations of the body and the environment in order to be possible the efficient use of the body in the environment.

Ayres suggests that the child with motor deficits and problems of sensory background integration can be treated, influencing the neurophysiological integration through the control of motor sensory behavior. In this theory it is emphasized that the motor deficits seen in the child with learning disorder and sensory integration dysfunctions are results of problems in the processing of sensory impulses. This mode, sensory integration therapy is different from neurodevelopmental therapy, in that the disorders treated by professionals who use this therapy are primarily motor. While the types of problems addressed using sensory integration procedures are primarily disturbances in sensory processing. The types of sensory dysfunction are often associated with deficits in tactile and / or vestibular processing.

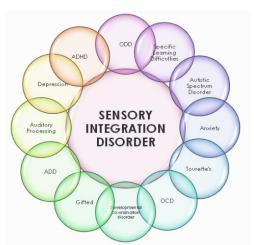


Figure 1 - Illustration about sensory integration disorder

Sensory Integration Disorder

Many neurodevelopmental conditions can often exist together, but each can be treated in different ways. The picture below (above) illustrates how the conditions overlap.(http://www.lanc.org.uk/related-conditions/sensory-integration-disorder-adhd-asd/)

Source: http://cienciasecognicao.org/neuroemdebate/?p=1327



2. PRESENTATION GOALS

This presentation has the main focus inspire the Rotary Club Bingen am Rhein from Germany to collaborate with this project for we can together turns them in a project with global grant.

3. PROJECT GOALS

The main objective of this project is to able to treatment for 664 children on city of Piracicaba and some other city with have border with Piracicaba, that need to overcome sensory integration disorder.

In Piracicaba some philanthropies institutions that already help some children with special needs and one these philanthropies institutions already have a special room to apply this treatment, but this room have a capacity to supply treatment to approximately 40 (Informar quantidades) children, but the demand is many more high that this number.

The demand for this service in Piracicaba and the cities around Piracicaba is approximately 28.800 treatment for year.

4. IN BENEFIT

This project will mainly benefit children with little access to health plans private.

5. INFORMATION ABOUT PIRACICABA

Piracicaba is a Brazilian municipality in the interior of the state of São Paulo. It belongs to the Meso-region and Microregion of Piracicaba, being located to the northwest of the state capital, distant of this about 164 km. It occupies an area of 1.376,913 km², being that 31,5733 km² are in urban perimeter and the remaining 1 345,339 km² constitute the rural zone. In 2017, its population was estimated by the IBGE in 397 322 inhabitants, being the 17th most populous of São Paulo.

Its Human Development Index (HDI) in 2010 was 0.785, considered high in the ranking of



Figure 2 - Photo Piracicaba - Piracicaba River and Downtown Piracicaba

the United Nations Development Program (UNDP), being the 50th largest in the state. In 2012, Piracicaba was ranked by the IPC as the 47th most consuming city in the country, with USD 2.00 billion in consumption, totaling 0.27% of the country. Several highways connect Piracicaba to several cities in São Paulo, such as the Luiz de Queiroz Highway, the Cornélio Pires Highway and Rodovia do Açucar Highway.



Piracicaba was founded in 1767, on the banks of the Piracicaba River, a river that was vital to the region. During the nineteenth century, agriculture developed in the municipality, with emphasis on the cultivation of sugar cane and coffee. However, even in the first half of the twentieth century, the city fell into decay. With the end of the coffee cycle and the steady fall in sugar prices, the Piracicaba economy stagnated. This was reversed from the beginning of its industrialization. The city became one of the first to be industrialized in the country, with the opening of manufacturing plants linked to the metal-mechanic sector and equipment for the production of sugar. This activity expanded from the 1970s to the sugar and alcohol sector, with the creation of the Próalcohol program, aimed at the production of hydrated alcohol for automotive use, due to the world oil crisis in 1973. This contributed significantly to the industrial growth of Piracicaba over the following decades, becoming the 52nd largest Brazilian GDP in 2012, being the headquarters of one of the main industrial centers in the region, as well as having several universities, such as the Federal Institute of São Paulo (IFSP), the Luiz de Queiroz College of Agriculture (ESALQ), belonging to the University of São Paulo (USP), the Piracicaba School of Dentistry, belonging to the State University of Campinas (Unicamp), Methodist University of Piracicaba (UNIMEP), and School of Engineering of Piracicaba (EEP).

Besides the economic importance, Piracicaba is still an important cultural center of its region. The neighborhoods of Santa Olimpia (founded by Trentino Tyroleses) [11] and Santana, by Italian immigrants. The Tupi Forest Garden and the Artemis Spa are large areas of environmental preservation, while the Professor Phillipe Westin Park and the parks located on the banks of the Piracicaba River are important points of visitation located in the urban area. In addition to the cultural projects and events held by the Cultural Action Secretariat of Piracicaba (SEMAC), the agency responsible for designing the cultural life of Piracicaba. The Piracicaba International Humor Salon, for example, is considered to be one of the most important graphic humor events held annually in the Central Sugar Mill, an old sugar cane mill that has been listed as a historical and cultural heritage, serving today as a cultural, artistic and recreational space.

Source: https://pt.wikipedia.org/wiki/Piracicaba/;



6. PROJECT DETAILS

The project consists in supply resource to building a clinic, supply and assembly a series of equipments to apply the treatment of sensory integration and delivery for the Philanthropic institution Piracicaba's Rehabilitation Center to manage this clinic.









Figure 3 - Illustration 3D preliminary project - room #1, Room#2, Multimedia room and entrance hall



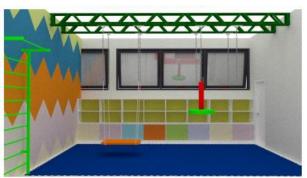


Figure 4 - Illustration 3D preliminary project - room #3 and room#4



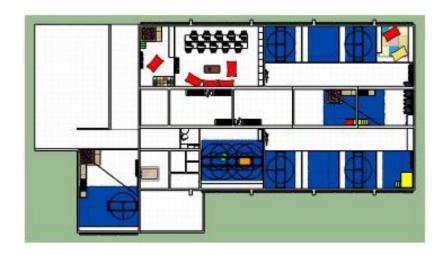


Figure 5 - Illustration 2D floor plan view

BRAZIL'S ROTARY CLUB INVOLVED IN THIS PROJECT.

This project has involved four rotary club of Piracicaba:

Rotary Club Piracicaba - Cidade Alta - District 4310:

Rotary Club Piracicaba - District 4310;

Rotary Club Piracicaba - Paulista - District 4310;

Rotary Club Piracicaba - Vila Rezende - District 4310

8. PHILANTHROPIC ENTITIES THAT WILL MANAGE AND USE THE CLINIC OF SENSORY TREATMENT

This clinic will be managed by Piracicaba's Rehabilitation Center (Centro de Reabilitação de Piracicaba – CRP), but other philanthropies entities will use this clinic:

Association of Parents and Friends of the Exceptional (Associação de Pais e Amigos dos Excepcionais-APAE).

9. PROJECT BUDGET

The initial budget for this project is USD 170.000,00. Detail about project budget should will present in a timely manner through: global_grant_report_template_en.docx

10. OTHERS INSTITUITIONS THAT WILL SUPPORT THIS PROJECT

This project already has support of City Council of Piracicaba.

CONTACT FOR MORE INFORMATION

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