

TENTH PROJECT FAIR ORIENTE – ANTIOQUIA 2025








ROTARY CLUB: ARMENIA PALMA DE CERA

ROTARY DISTRICT: 4281

CITY: ARMENIA

PROJECT NAME: **“HEARING SCREENING IN EARLY CHILDHOOD
INSTITUTIONAL UNITS (UIPI) IN ARMENIA 2 – TO 5 YEARS”**

AREAS OF INTEREST:

 WATER AND SANITATION		 PEACE, CONFLICT PREVENTION AND RESOLUTION
 LITERACY AND BASIC EDUCATION	X	 DISEASE PREVENTION AND TREATMENT
 ENVIRONMENTAL SUPPORT		 MATERNAL AND CHILD HEALTH
 DEVELOPMENT OF LOCAL ECONOMIES		

PROJECT OBJECTIVES:

- OBJETIVOS GENERALES:**

Conduct auditory screening in the pediatric population aged between 2 and 5 years in the municipality of Armenia, Quindío, Colombia, over a one-year period. The objective is to identify potential hearing problems, thereby promoting comprehensive development, socio-educational inclusion, and well-being during childhood. This initiative ensures audiological support for parents and educators, contributes to the implementation of the surveillance protocol for congenital defects particularly related to auditory impairments. Additionally, it aligns with the Comprehensive Healthcare Routes for Early Childhood (RIAS) mandated by the government, aiming to facilitate educational development and prevent dropouts due to unidentified learning disabilities.

PROJECT DESCRIPTION:

- JUSTIFICATION:**

In the Development Plan of the Municipality of Armenia, hearing impairment has not been reported, and there are no records since 2017, indicating a zero indicator. The lack of comprehensive knowledge among



the community's medical professionals, educational staff, and parents regarding the importance of early detection of auditory impairments in children necessitates the development of an education and assessment protocol, including auditory screening. This aims to integrate it into the activities of the educational community, in coordination with the Municipal Health and Education Secretariat, the Medical Corps of the health system (contributory and subsidized), the team from the Colombian Family Welfare Institute, the Rotary Support Group, and the beneficiary children along with their families

Hearing is the cornerstone of communicative and language development. Early detection of auditory impairments will facilitate timely diagnosis and intervention, enabling the child to achieve language and communicative development aligned with their cognitive and biological age.

The CRITICAL AGE for this developmental maturation is from birthday to 3 years of age. Therefore, the assessment of children should be early to achieve efficient and timely guidance, direction, and interventions.

Hearing loss can be mild, moderate, severe or profound and may affect one or both ears. The main causes of this disorder can be congenital or acquired in early childhood, chronic middle ear infections, age-related, noise-induced hearing loss, or due to ototoxic drugs that damage the inner ear.

The consequences of hearing loss are broad and can be profound. They include the loss of the ability to communicate with others, delayed language development in children, leading to social isolation, feelings of loneliness, and frustration. Many of those consequences can be mitigated through early detection and intervention. This includes special education programs, assistive technologies: hearing aids, cochlear implants, subtitles, and other resources through speech therapy, auditory/verbal rehabilitation, which can be helpful for individuals with hearing loss of any age.

Hearing loss and deafness can also result from complications of other diseases such as measles, meningitis, rubella and mumps. Activities aimed at preventing these diseases through vaccination and hygiene programs can have beneficial effects in reducing their occurrence. Additionally, immunizing women and adolescents of childbearing age against rubella before pregnancy, as well as preventing cytomegalovirus infections in pregnant women, can reduce the risk of children being born with congenital hearing loss or deafness.

- **DIRECT AND INDIRECT BENEFICIARIES:**

Hearing screenings will be conducted on approximately 2,460 children aged 2 and 5-year-old, residing in the city of Armenia as part of the

Municipal Development Plan. This initiative targets children enrolled in the Institutional Units for Early Childhood –UIPI, aiming to ensure early education, care and nutrition within the framework of comprehensive and differential attention. Additionally, efforts will be made to promote their rights to health, protection, and participation, fostering their physical, emotional and communicative development. Moreover, their families, consisting of (7,500 individuals), the teaching staff of the UIPI (140 teachers), and the medical personnel within the healthcare system will also benefit from this initiative.

- **ACTIVITIES TO BE DEVELOPED:**

- Information and promotion within Institutional Units for Early Childhood – UIPI, about the importance of preventing learning difficulties and cognitive development issues in preschool-aged children.
- Hearing screenings will be conducted on preschool children between 2 and 5 years, using the Education and Auditory Assessment Protocol, integrating it with the Comprehensive Routes of

Early Childhood Health Care. This aims to track their overall development in collaboration with Municipal Health Secretariat.

- Based on the registered population in the UIPI of the city of Armenia, an evaluation system is established for a one-year period, an auditory screening protocol will be implemented, acquiring and utilizing audiometric equipment with pure tones at 25 Db HL in frequencies of 500 – 1,000 – 2000 – 4,000 Hz. Results will be categorized as PASS or FAIL, and appropriate routes will be applied according to the established protocol:

PASS: Recommendation for auditory care and a one-year follow-up are provided.

FAIL: A referral is given to the health care provider EPS, for clinical assessment, (behavioral audiometry / impedance testing) followed by a 3- month control and intervention, (treatment – amplification - therapies) are administered before the 6-month mark.

- **RESOURCES:**

- **TECHNOLOGICAL EQUIPMENT:** Otoscope // Audiometer / Video Beam / PC
- **HUMAN RESOURCES:** Audiologist / Administrator/ Accountant
- **TRAINING:** Parent Conferences- Eq. Doctor / Teacher / Information brochures
- **PROJECT IMPLEMENTATION:** Logistics and documentation / Screening reports / Children's snacks / Administrative expenses.

SUSTAINABILITY:

To the Municipal Health System, hearing disability is not being reported, due to the medical team's lack of knowledge about the Hearing Screening Protocols in Early Childhood; The Ministry of Health approached our Rotary Health Committee, and expressed its interest in the possibility of educating and motivating Early Childhood Care Programs to carry out an “Early Detection Program for possible Hearing Disorders in preschool children.” in the city of Armenia”, offering its support and maintenance during its execution until the end of the project, and after finishing it; This allows continuity with the monitoring and intervention of the detected children.

Economic Sustainability is guaranteed during the development of the project, through the search for possible Hearing Alterations and their respective follow-ups through the Screening Plan established in its Schedule; which is achieved with the initial financial, administrative and logistical effort; without the need for new resources, subsequently linking to the Program with the RIAS through the General Social Security Health System. This being (SGSSS), the subsequent manager of the Program upon receiving from us, the Hearing Screening Protocol and with it, the guidelines to guarantee the continuity of the Program through the trained medical team.

- 1- *INSTITUTO DE BIENESTAR FAMILIAR: (ICBF) es la entidad del Estado colombiano que trabaja por la prevención y protección integral de la primera infancia, infancia y adolescencia, el fortalecimiento de los jóvenes y las familias en Colombia, brindando atención especialmente a aquellos en condiciones de amenaza, inobservancia o vulneración de sus derechos.*
- 2- *RUTAS INTEGRALES DE ATENCIÓN EN SALUD DE PRIMERA INFANCIA (RIAS): Acciones para el diagnóstico, tratamiento, rehabilitación, paliación, cuidado de la salud y educación para la salud. Permite orientar y ordenar la gestión de la atención integral en salud a cargo de los actores del SGSSS de manera continua y consecuente con la situación y características de cada territorio, así como la gestión intersectorial para la afectación de los determinantes sociales de la salud.*
- 3- *SISTEMA GENERAL DE SEGURIDAD SOCIAL EN SALUD (SGSSS): tiene como objetivo regular el servicio público esencial de salud y crear condiciones de acceso para toda la población residente del país, en todos los niveles de atención.*

FINANCING OF THE PROJECT:

Value of the Project:

\$ 133'395.600 COP

USD 30.180

- TECHNOLOGICAL EQUIPMENT:

- Otoscope / Audiometer / Video Beam / PC **USD 5.820**
\$ 25'724.400 COP / año = USD 5,820

- HUMAN RESOURCES:

Recurso Humano/año **USD 16.833**

2 días/ sem. = 8 días/ mes = 8 meses / año (Solo de valoración) el resto del tiempo (4 meses) para Promoción, Talleres educativos, Reportes, Estadística, Seguimiento.

- Audiologist \$ 50.830 COP= USD 11,5 h/W \$ 39'037.440 COP/ año = USD 8,832
- Administrator \$ 35.360 COP= USD 8 h/W \$ 27'156,480 COP/ año = USD 6,144
- Accountant \$ 8'207.940 COP/ año = USD 1,857

- TRAINING:

- Folletos informativos 6000 / Charlas_educativas a padres – Eq. Médico- Docente / apertura y cierre / refrigerios niños (valorados 2460 niños*) **USD 4.706**
\$ 20'800.000 COP / año = USD 4,706

- PROJECT IMPLEMENTATION:

- Reportes Tamizaje / Administrativo Colrotarios / Movilidad del Recurso Humano y Equipo **USD 1.321**
\$ 5'838.820 COP / año = USD 1,321

- UNFORESEEN:

- 5% del presupuesto **USD 1.500**
\$ 6.630.000 COP /año = USD 1,500

TRM ROTARY DOLLAR:

USD 1 = \$ 4.420 (Liquidación USD a Dic. 2024)

CONCEPT	VALUE IN PESOS	VALUE IN DOLLARS
PROJECT COST	COP \$ 133'395.600	US \$ 30.180
*Cash contribution Local club	COP \$ 2'652.000	US\$ 600
*FDD DISTRICT D4271 _ or D4281 _	COP \$ 6'630.000	US\$ 1.500
*Cash contribution to international clubs	COP \$ 24'752.000	US\$ 5.600
*FDD International District	COP \$ 31'382.000	US\$ 7.100
*Rotary Foundation	COP \$ 30'409.600	US\$ 6.880
** PENDING TO FINANCE	**COP \$ 37'570.000	**US\$ 8.500

*** ONLY VALUES THAT ARE ALREADY COMMITTED TO THE PROJECT ARE PLACED**

**** PENDING TO FINANCE** = Project Value – Contributions committed to date

Thanks to your support, our club will help the community by solving its most important needs. We appreciate the analysis of this project. For more information contact:

Name: Aud. Mónica López de Mesa Nicholls / Md. Jorge Raúl Ossa Botero
Email: monicalopezdemesa@hotmail.com / jorgeossa@gmail.com
Phone: +57 3227908461 / +57 310 3734188

<https://www.matchinggrants.org/global/project3290.html>
https://grants.rotary.org/s_main.jsp?lang=14

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