



OSSA

ORTHOPEDIC
SOLUTIONS TO
SURGICAL
ACCESS INC.

www.orthogiving.org

YEAR IN REVIEW

2023

The year 2023 has been the year of OSSA's positioning in the western area of Guatemala, here you will see some of the important achievements.

OSSA Team



OSSA
ORTHOPEDIC
SOLUTIONS TO
SURGICAL
ACCESS INC.

Center of Medical
Excellence, Simulation
and Education.
OSSA Soluciones S.A.

Dear Geri and Barry.

At OSSA we are grateful for the unconditional support they give us to be able to meet the goals and objectives set at the beginning of the year.

This year has been a convulsive year for Guatemala, our population has begun to recover from the economic crisis that in previous years has generated a pandemic, however, the polarization of our society for various causes has even paralyzed the country, which did not happen in times of pandemic.

Despite these factors, at OSSA we have managed to **position** our company and our brand in western Guatemala through three main axes, which are:

1. **Education:** providing continuing medical education with OSSA's own courses, talks and workshops and others that it has funded.
2. **Access to health:** with the OSSA medical clinic, we serve patients who require our services in the areas of traumatology and orthopedics, internal medicine, gynecology, general medicine and now pediatrics.
3. **Self-financing:** offering high-quality medical supplies and equipment to health providers in the region, performing consultations and surgeries to people with sustainable financial resources.

The support you have provided has allowed us to be **recognized** today as a company dedicated to the support of health and medical care providers with a social focus, creating alliances with private and public institutions and non-governmental organizations who have become business partners that make this expansion possible.

This encourages us to continue to set higher and higher goals and reminds us of the commitment we have made to our patients and business partners to whom we owe ourselves.

We wish you a happy holiday season.

OSSA Team

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IN RETROSPECT 2023

JANUARY



Dr. Rudy Cano, fellowship.

Dr. **Rudy Cano** returns to San Marcos after a **foot/ankle fellowship in Barcelona, Spain**



Dr. Rudy Cano at OSSA Clinic

following support from OSSA, helping at the OSSA Clinic including foot/ankle patients.

Television interview on **Channel 9**, for the entire department of San Marcos, with important topics such as: **Sports Medicine and Cardiopulmonary Resuscitation.**



Dr. Barry Messinger and Dr. Guadalupe de León, banner for Channel 9 advertising.

Dr. **Romeo Tereta**, begins his third year (January 2024) of **Cardiology** at the Roosevelt Hospital in Guatemala City with the support of OSSA



Logo of the Cardiology Unit, Roosevelt Hospital.



Graduate Emergency Medical Technicians (TEM) Tessinf

Graduation of promotion of Emergency Medical Technicians with the support of OSSA in the year 2021.



From left to right: Axel Pérez, Isaac López, Erick García and Amner Escobar.

Noé Muralles sent Lexus and donated office equipment from Windham Hospital.

Surgery in the Municipality of Comitancillo by Dr. Linda García with the support of Dr. Barry Messinger.



Dr. Barry Messinger, Dr. Linda Garcia and staff at Dulce Maria Hospital.



Aspiring firefighters from the municipalities of San Marcos, Tacaná, Cucho, Comitancillo and San Rafael Pie de La



On the right, Dr. Guadalupe de León, instructor of the curso.

Basic Life Support (BLS) course for 30 students of Firefighters in San Marcos, which was a support for the population of OSSA.

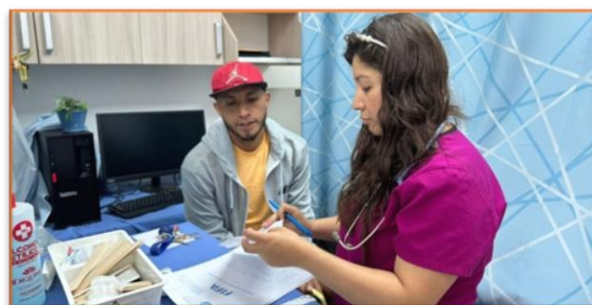
FIFA pre-season test for players of the **Club Deportivo Marquense U-20**.



From right to left: HNSM Trauma and Orthopedics Resident Dr. Rudy Cano, Dr Barry Messinger, performing trauma tests.



Dr. Guadalupe de León, EKG.



Dr. Shuliana Santos, carries out educational plan and self-examination of male genitalia and prevention of testicular cancer.



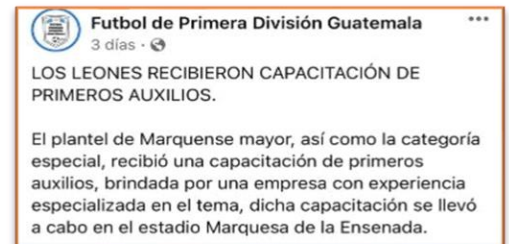
FEBRUARY



From left to right: Dr. Rudy Cano, Dr. Barry Messinger and Marquense Women's Coach



CPR training for 50 players and coaching staff of the Seniors and U20 categories of the Marquense Sports Club.



Social Media Notes on CPR Training

Evaluation of FIFA pre-season physical exams to 20 athletes of the senior category of the Club Deportivo Marquense Femenino.



Dr. Rudy Cano, Physical Evaluation and Early Diagnosis of Injuries

We met **Dr. Bill Aehrens** from the University of Illinois, a professor at the school of emergency medicine and pediatrics, co-author of the book Pediatric Emergency Medicine. She works in **San Miguel Ixchuacán and San José Ojetenam** with pediatricians, physiotherapists, and other rehabilitation centers, requesting help for patients with hip dysplasia and clubfoot.



Dr. **Shuliana Santos** taught the technique of **obstetric care and prehospital childbirth care** to **30** student firefighters.



I traveled to Tacana where I met Father **Angelo Esposito** of the NGO **Sister Earth**, who has a small **pediatric hospital, "Los Angelitos"**.



Dr. Linda Garcia, Plaster and Varus Foot Models.

Medical equipment is offered at affordable prices and a talk on clubfoot detection is given with Dr. Linda Garcia.



Training in the Community Hall of Tacaná San Marcos.

CPR course for **40** health providers at **Los Angelitos Hospital** in Tacaná, San Marcos.



Hands-Only CPR



MARCH



Construction Work Crew

Walter Ardeano and Fito finished the **outdoor** tool cabinet



Knee Model

Dr. Barry teaches OSSA medical staff the basics of **joint injections**.

Dr. Linda García gives a talk on **the detection of clubfoot** at the dispensary of the Catholic church of Tacaná, San Marcos.

APRIL



Dr. Guadalupe de León, CPR Instructor



Medical Students in CPR Course

CPR course for **20** students from the National Hospital of San Marcos.

On April 23, **2** Achilles **tenotomy surgeries** are performed as part of the process of the **ponseti method** to treat patients with clubfoot, performed by **doctors Ana Zambrano and Linda García**.

Sponsors in the **10K and half marathon track race** at the San Macos Spring Fair with the support of medical staff before, during and after the race, with first aid equipment and vital signs.



Erick Garcia and Miguel Aguilar, at the OSSA stand one day before the race.



Dr. Jackeleny Ardeano, taking vital signs after the race.



OSSA tent with medical equipment after the race.

Shoulder surgery by Dr. Rodrigo Ramazzini with the support of Dr. Barry Messinger to patient of OSSA medical clinic.



Dr. Barry Messinger and Dr. Rodrigo Ramazzini



Dr. Barry Messinger, shoulder surgery.



MAY



Banner advertising the Basic Life Support course on OSSA's social networks.



Practice CPR with OSSA Anatomical Mannequins

Basic Life Support (BLS) courses for **41 medical students** doing hospital practice at the National Hospital of San Marcos.

Basic Life Support (BLS) courses for **101 medical students**, held in the municipality of **Malacatán**, San Marcos, in the coastal area of the department, on a very hot day.



Medical students in Malacatán.



Practice CPR with 3 rescuers, ambu and AED.

FECHA	TEMAS	COORDINADOR
27 de febrero al 03 de marzo	Geriatría - Cirugía General	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología
20 al 23 de abril	Geriatría - Cirugía General - Otorrinolaringología	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología - Cirugía y Cirugía de Mano, Neuro y Otorrinolaringología
01 al 04 de mayo	- Cirugía General Pediatría	Neurología, Sociodemografía, Fisiología
05 al 20 de junio	Otorrinolaringología	Cardiología y Cirugía de Mano, Neuro y Otorrinolaringología
05 al 07 de junio	Audiología	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología - Cirugía y Cirugía de Mano, Neuro y Otorrinolaringología
24 al 28 de julio	- Otorrinolaringología - Cirugía General - Cirugía Plástica	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología - Cirugía y Cirugía de Mano, Neuro y Otorrinolaringología
18 al 21 de septiembre	Urología	Neurología, Medicina, Neurología, Quirófano, Fisiología
01 al 11 de octubre	Otorrinolaringología	Cardiología y Cirugía de Mano, Neuro y Otorrinolaringología
08 al 11 de octubre	Audiología	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología - Cirugía y Cirugía de Mano, Neuro y Otorrinolaringología
03 al 06 de noviembre	Geriatría - Cirugía General - Cirugía Plástica	Cardiología y Cirugía de Mano y Vínculo - Anestesiología, Medicina, Neurología, Quirófano, Fisiología - Cirugía y Cirugía de Mano, Neuro y Otorrinolaringología
Todos los días	Otorrinolaringología	Cardiología y Cirugía de Mano, Neuro y Otorrinolaringología

Banner of medical conferences of the Family Hospitals.

Visit to **Nuevo Progreso** with Dr. Bill to meet the director of the **Family Hospital Foundation**, Jennifer Younger, and Luis, local administrator.

CPR classes in Huehuetenango for medical students of the **Mariano Gálvez University**, by HNSM alumnus, Traumatologist **Dr. Roberto Cabrera**, at the Hotel Las Ruinas, 167 students are trained.



Practice with mannequin Prestan



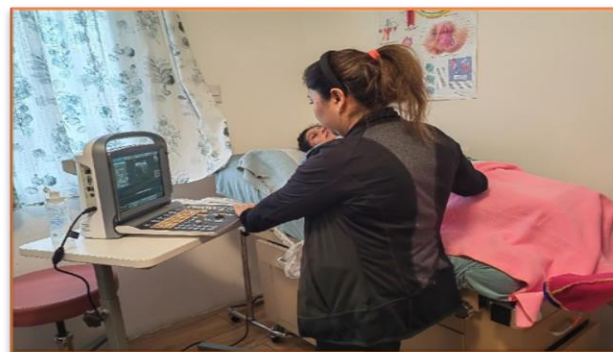
Dr. Guadalupe de León, course instructor

Improvements made to OSSA's **multi-use** land building



OSSA Building

Implementation of the **Gynecology clinic** in conjunction with Geri Messenger, was established on the second level of the OSSA building, in order to provide gynecological care to the population, with the purpose of **primary prevention of cervical-uterine and breast cancer**, through the performance of Pap smears and breast self-evaluation. In addition to having services such as pelvic ultrasound and colposcopy.



Dr. Shuliana Santos, OSSA Gynecologist





Arthroscopic knee surgery by Dr. Rodrigo Ramazzini with the support of Dr. Barry Messinger.

Knee Arthroscopy

2 Achilles tenotomy surgeries were performed on clubfoot patients treated at the OSSA clinic by **Dr. Linda García** with the support of professional nurse **Sarahí Hernández**.



Placement of paris plaster and fiberglass after tenotomy.

JUNE



OSSA stand in Plaza San Pedro Sacatepéquez. From left to right: Dr. Shuliana Santos, Erick Garcia, Maynor Perez, Dr. Linda Garcia, Eduvina, Miguel Aguilar, Carlos Bautista.



Maynor Pérez and Walter Ardeano prepare refreshments for attendees.



OSSA Patients Paint and Have Fun

Commemoration of the **International Day of Clubfoot** with patients treated at the OSSA medical clinic, parents, institutions that refer patients and the general public, a medical day, information about **IOWA BRACE** and games with children are held.



From June 18 to 21 **ISAKOS Boston Conference** will meet with Drs. Ramazzini, Girón and Dr. Gustavo Rincón, a great supporter of OSSA.

Drs. Barry Messinger and Gustavo Rincón in Boston.

On June 15, a visit was made to the **Hospital de La Familia de Nuevo Progreso**, a talk was given on the detection of patients with Clubfoot, by Dr. Linda García, Traumatologist and Specialist in Clubfoot, and a first cast was placed on a child captured with this disease and treated at OSSA.

Basic Life Support (BLS) course for **23** nurses and doctors from the **Guatemalan Institute of Social Security**, in Malacatán, San Marcos.

Basic Life Support (BLS) course for **34** medical students from the **Universidad San Carlos de Guatemala**, who were rotating in community practice.



CPR Keynote Speech



Practice with a Pocket Mask.



Practice CPR with PRESTA mannequin



Practice with a children's mannequin.



JULY

A course is held for **a company of volunteer** firefighters from San Pedro Sacatepéquez, training **11** firefighters with the topic Introductory of Prehospital Emergencies.



Isaac López and Dr. Guadalupe de León in the Volunteer Firefighters training room.

On July 22nd, **Dr. Ana Zambrano**, a specialist in clubfoot and president of the **Ponseti International** headquarters in Guatemala, who together with Dr. Linda García evaluated and patients of OSSA.



Dr. Ana Zambrano, Dr. Linda García, Iker Morales, and Iker's father.

FIFA pre-season evaluation in OSSA clinic with Club **Deportivo Marquense Men's Branch, Senior Category.**



Dr. Rudy Cano evaluates Elías Enoc Vásquez, defender.



Drs. Jackeleny Ardeano and Romeo Tereta, evaluate the cardiovascular system.

This evaluation is important to reduce the risk of cardiovascular emergencies, as well as for the assessment of physical conditions and early diagnosis of musculoskeletal injuries.

AUGUST

OSSA achieves to be an **International Training Center** Certified by ECSI, for courses in Basic Life Support, First Aid – CPR – AED, First Aid in Remote Places and Emergency Care First Responder, with **11 certified instructors, being a multidisciplinary team of doctors of various specialties, firefighters, prehospital emergency technicians and nurses.**

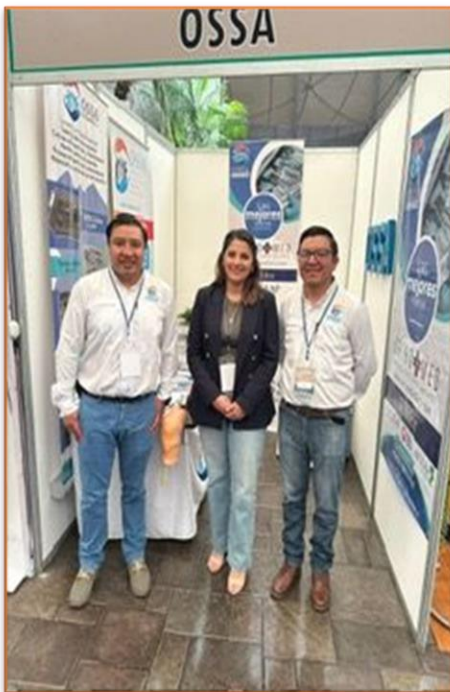


ECSI Authorized Center Logo



OSSA authorized center.

SEPTEMBER



Erick García, Guadalupe de León and Miguel Aguilar

OSSA's booth at the **AGOT National Conference**, including OSSA, recognized as a Gold Sponsor.



Traumatologists using OSSA's arthroscopy simulation equipment.



OSSA stand at Hotel Barceló



Erick García visits **Manchester, Connecticut**, in order to learn about the procedures and management in the health area and implement new and functional ideas in the department of San Marcos, and the west of the country.

Visit to:

1. Sterilization Center
2. ECHN Hospital (a special thanks to the staff who received us and to the BIOMEDICAL department of the hospital)
3. Glastonbury Surgery Center
4. Soma Technology
5. CESI



Noe Muralles and Erick García visit CESI



Erick and Noe's visit to ECHN Hospital to collect donations of medical equipment and four electric beds that were sent to Guatemala.



Barry and Geri Messinger with Erick and Noe Muralles at CESI



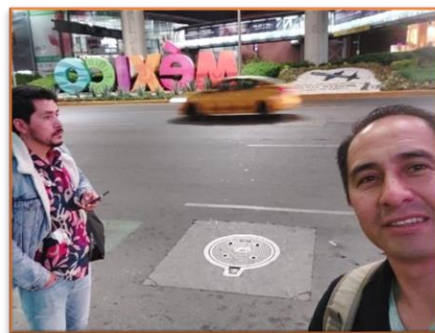
Drs. Linda García and Ana Zambrano in Costa Rica

OSSA sponsors **Dr. Linda García**'s Conference in **Costa Rica** for Ponseti's workshop and training in **ultrasound for hip dysplasia in children** and musculoskeletal ultrasound, accompanies Dr. Zambrano.



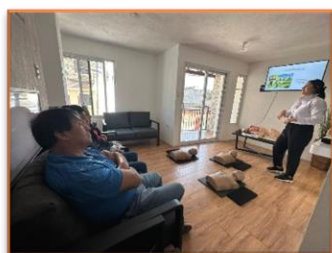
Group of doctors attending a ponseti workshop, Costa Rica

OSSA supports **firefighters Amner Escobar and Isaac Lopez** to attend the **PHTLS course in Querétaro, Mexico**. Both recertify for the **NAEMT PHTLS Provider Course**.



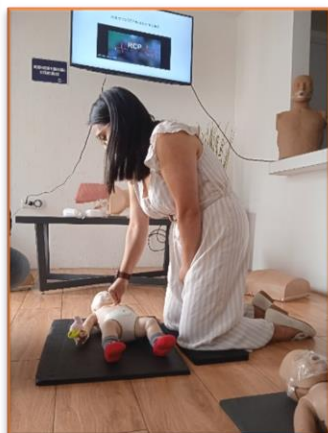
Firefighters receive course in Mexico

OCTOBER



OSSA Workshop, second floor.

Hands-only CPR course **QAPIY International Conference**.



Practice with a child mannequin.

Basic Life Support Course for OSSA Guatemala Training Center Instructors.



Course in the Salón de Hotel Miralvalle, the current venue for massive courses.

Construction of a building to teach and perform **cleaning and sterilization of surgical instruments.**



Walter Ardeano, team building center



Team Headquarters, currently.

2 **Achilles Tendon Tenotomy surgeries** were performed, by **Dr. Linda García**, Traumatologist and Specialist in Clubfoot, with **PE. Sara Hernández** as instrumentalist.



NOVEMBER



CPR Master Class.



CPR with two rescuers, infant mannequin



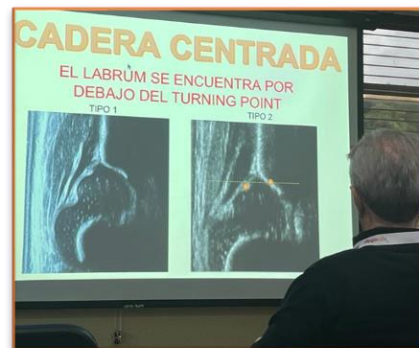
On the left, standing, Dr. Milton Gómez, head of Specialties Hospital

Basic Life Support Course is held for **Specialty Medical Center**, a well-known hospital in San Marcos.

Celebration of **Diabetic Day** in the square of the **Central Park of the Municipality of San Pedro Sacatepéquez**, San Marcos



Mention in **Nuestro Diario**, the newspaper with the **largest circulation in Guatemala**



Vista de Cadera a través de ultrasonido.

Lecture by **Dr. Linda García** on **SLAOT hip dysplasia** with ultrasound training in Guatemala City.



Physicians certified in **ACLS**, Mexico.

ACLS Course AHA Certification and Plan to Become a Certified Instructor by **Dr. Guadalupe de León**.

Practice is carried out with the **Noelle simulator** which has the purpose of giving workshops on obstetric hemorrhages, management of code red, childbirth care and CPR in obstetric patients.



DECEMBER



Dr. García at OSSA Medical Conference

OSSA Traumatology Medical Conference in San Miguel Ixtahuacán at the request of Dr. Bill Aherns, head of the **BITOL Rehabilitation Center**, in charge of Dr. Linda García, evaluating **24** patients with hip dysplasia, clubfoot and valgus foot.



Patients at Bitol Rehabilitation Center.

SVB 3 course for **20** health providers, including staff from the **IGSS** of San Marcos.



Master class in the Miralvalle Hotel Lounge.



EAD Practice

BLS course for 10 health providers from Los Cedros Medical Center.

Other BLS courses for staff of the National Hospital of San Marcos.





ALL YEAR ROUND

Medical Consultations Internal Medicine



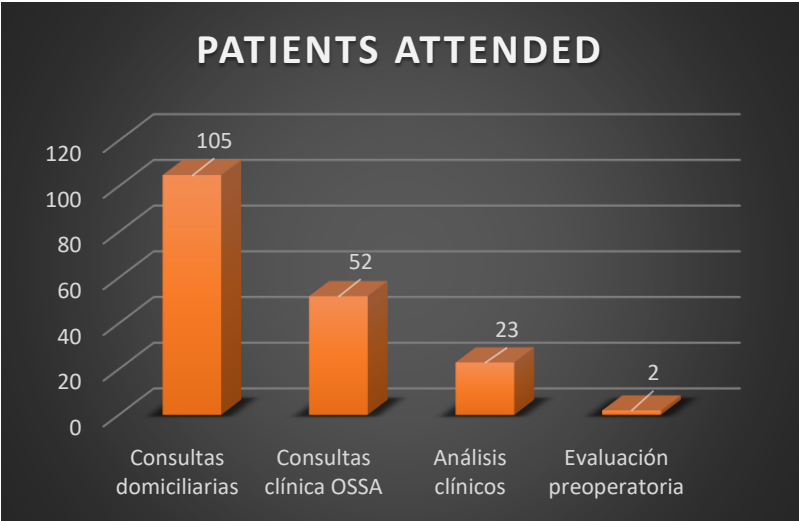
OSSA Banner on Social Media

By means of protocols, a need (concern, discomfort, pain, suffering, or harm) of the patient was explored at a subjective and objective level, **making use of knowledge, expertise, sensitivity, intuition, and awareness** to establish a diagnosis and establish a treatment plan for a problem of poor health. The **medical consultation** consisted of: anamnesis, physical examination, diagnosis, prognosis and treatment.

Up to November, a total of **182 patients** were treated who called the OSSA telephone number and personal telephone. There were 105 home consultations, 52 consultations in the facilities of the OSSA clinic, 23 clinical analyses (results of laboratory tests), 2 perioperative evaluations.

7 patients referred to the National Hospital of San Marcos because they did not have the financial resources to be admitted to a private sanatorium.

1 patient admitted by OSSA with the diagnosis of pulmonary thromboembolism.



Elaboration: Dr. Jackeleny Ardeano.

Medical Consultations Gynaecology

Through simulators that were acquired, an educational plan is given to mothers of Ponseti patients on how and why to perform Pap smears, monthly breast exams and that they can perform it within the routine exams.



Dr. Santos Makes Educational Plan



Ossa Banner on Social Media

Over the course of the year, **gynecology consultations** have also been carried out and Pap smears have been carried out as primary prevention of cervical-uterine and breast cancer. In addition to having services such as pelvic ultrasound and colposcopy as a diagnostic method.

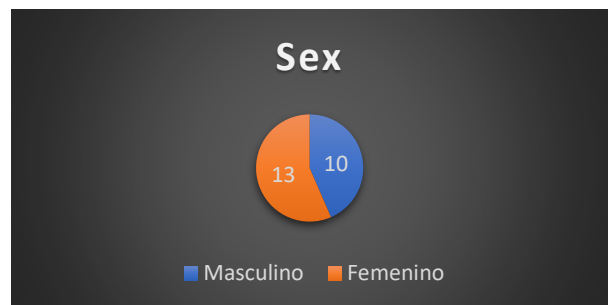
Medical Consultations Traumatology and Orthopedics Clubfoot



Ossa Banner on Social Media

During 2023, **23 patients diagnosed with clubfoot** have been treated by **Dr. Linda García**, who has committed to Ossa to improve the living conditions of patients affected by this disease. Patients visit us from the vicinity of Ossa to the most distant municipalities such as Tacaná and Nuevo Progreso.

57% of the patients treated with clubfoot are girls, while the remaining 43% are boys.

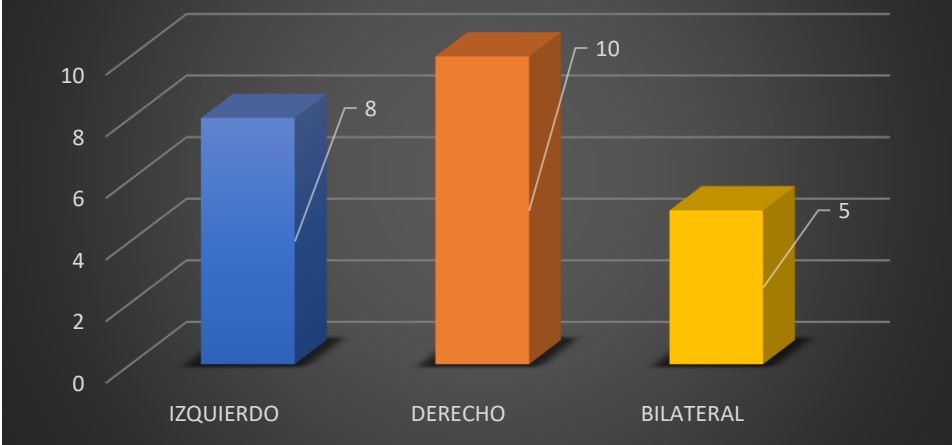


Elaboration: Sarai Hernández, Miguel Aguilar





PATHOLOGY

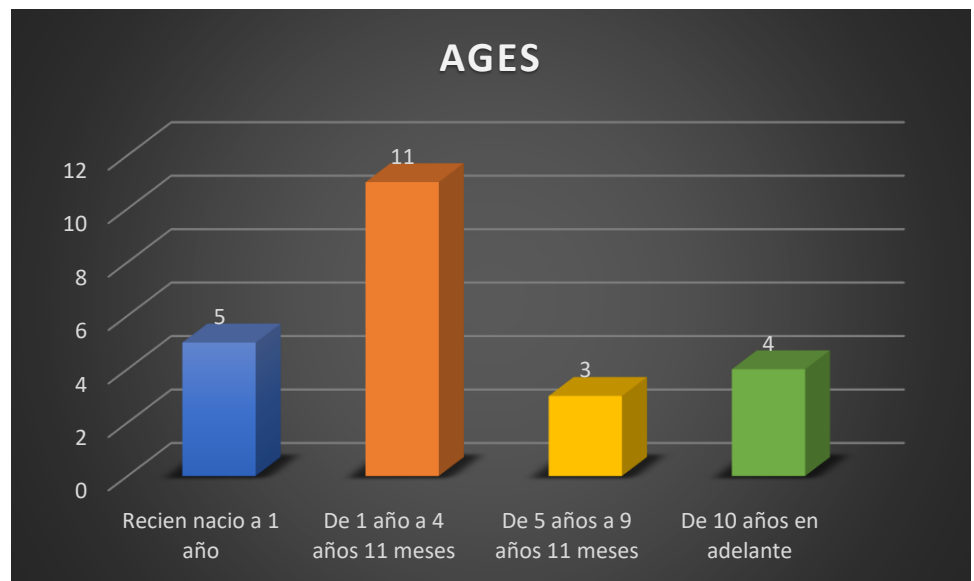


Of the total number of patients treated, 43% suffer from clubfoot of the right limb, 35% of the left limb and 22% of both limbs.

Elaboration: Saraí Hernández, Miguel Aguilar

The age ranges are as follows: 22% of patients under 1 year of age are the appropriate age to start treatment, and 48% of patients are from 1 to 5 years of age. patients aged 5 to 10 years 13% and 10 years and older 17%.

AGES



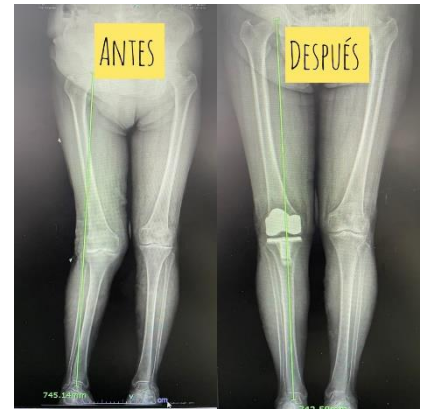
Elaboration: Saraí Hernández, Miguel Aguilar

Medical Consultations Traumatology and Orthopedics



OSSA Banner on Social Media

Dr. Rodrigo Ramazzini, traumatologist and orthopedist, sub-specialist in knee, shoulder and hip, visits the OSSA medical clinic every 6 weeks to evaluate patients by consultation, post-operative and pre-operative.



Post-Surgery Patient X-Ray



De pie: Walter Ardeano, Wellington Ardeano, Erick García, Miguel Aguilar
Abajo: Guadalupe de León, Eduvina Coronado, Saráí Hernandez, Shuliana Santos, Jackeleny Ardeano

