



MEDICAL MISSION DATA

237 women screened for early detection, 20 ultrasounds and 2 biopsies.

INTRODUCTION

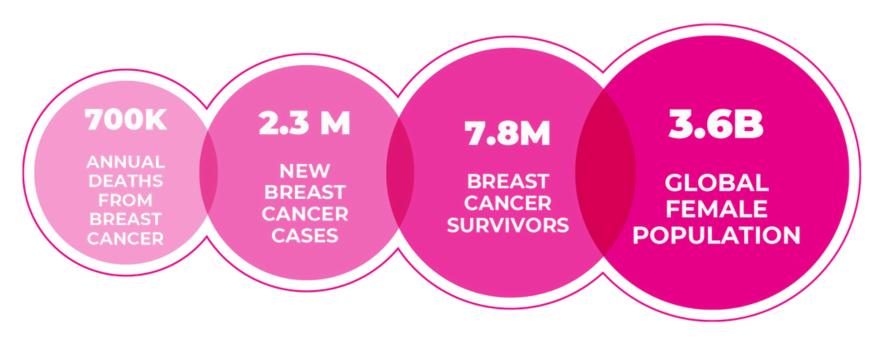
The following report we will find images of women who were screened with the Luminous ® breast transillumination device

We grouped images of breasts with irregular venous patterns, all patients presented benign breast pathologies, corroborated with Ultrasound. We show the ultrasound reports in the following slides.



GLOBAL PROBLEM

BREAST CANCER IS THE MOST COMMON CANCER



1 out of 8 women will be diagnosed with **BREAST CANCER**

World Health Organization© International Agency for Research on Cancer 2021

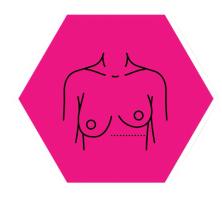
OUR GOAL

Visualize



Using a patented low-risk red LED light device to visualize venous patterns in the breasts

Detect

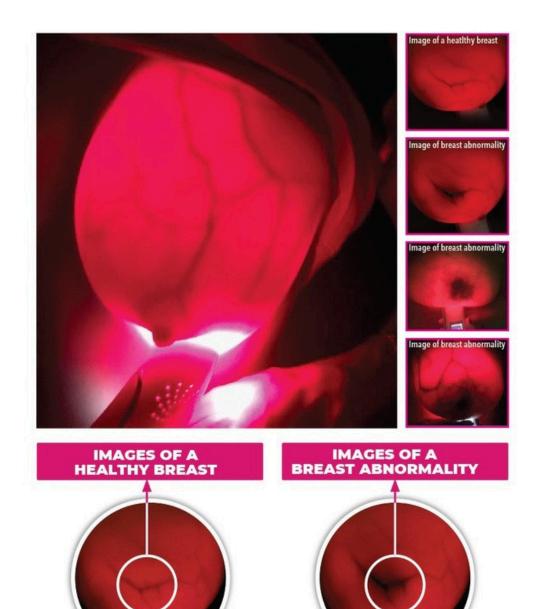


Refer all women with irregular venous patterns to ultrasound in a timely manner to determine breast pathologies.

Determine Pathology



Detect irregular venous patterns by comparing both breasts

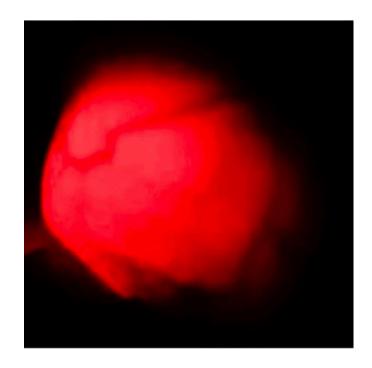


Luminous Pro-Series

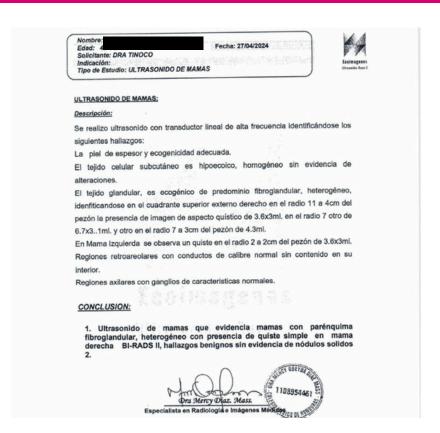
PATENTED RED LED TECHNOLOGY

Illuminates the soft tissue and blood flow of the breast establishing a patient specific baseline for identifying changes and or possible abnormalities.

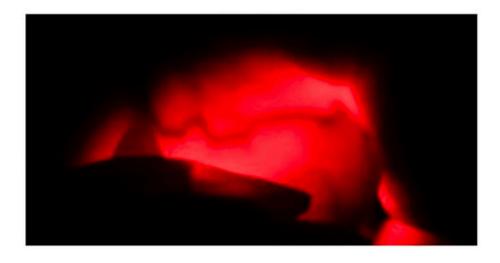
Areas characterized by visual darkness or shadowing may be an indication of possible abnormalities.



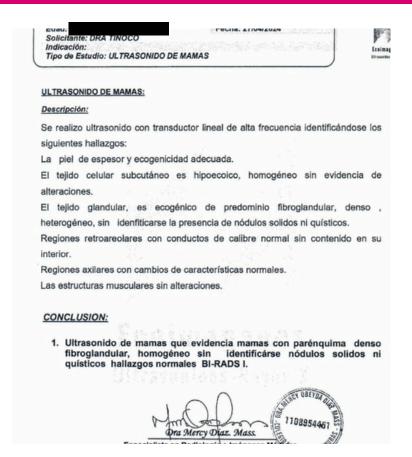
In breast transillumination, a dark spot is seen without blood vessels feeding it.



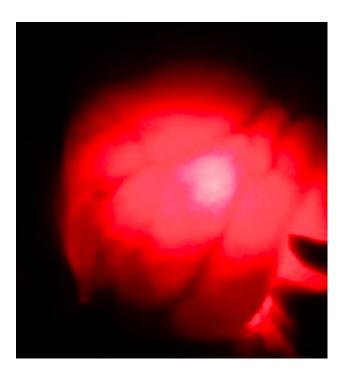
In ultrasound the diagnosis benign findings BIRADS II



In breast transillumination, regular, slightly thickened blood vessels are observed.



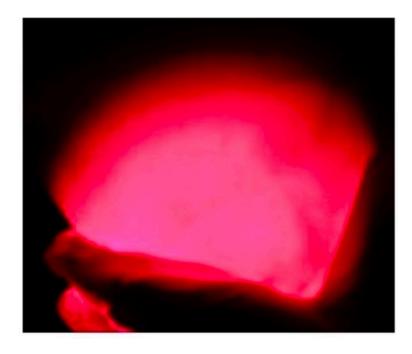
On ultrasound the diagnosis is dense breasts without cysts BIRADS I



On ultrasound the diagnosis is dense breasts without cysts BIRADS I



On ultrasound, the diagnosis is simple cysts with a benign appearance



In breast transillumination, very thin regular blood vessels are observed.

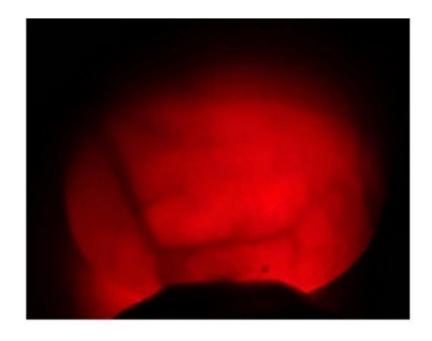


In the ultrasound the diagnosis is insufficient BIRADS 0, a mammogram is suggested at age >50

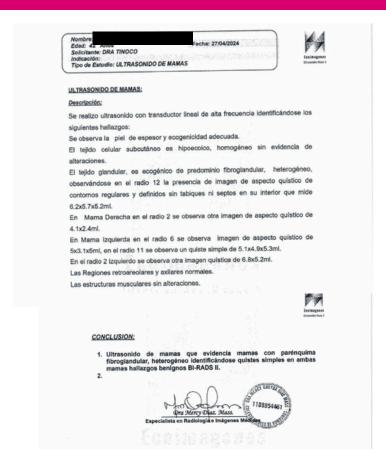


Breast transillumination shows dilated vessels and a small spot around a duct.

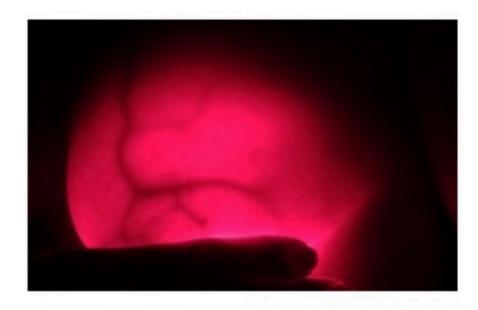




In breast transillumination, dilation of vessels with many lead spots around is observed.



On ultrasound the diagnosis is multiple cystic masses BIRADS II



In the transillumination of the breast, small lead spots are observed, regulating blood vessels.

Edad: 31 Años Solicitante: DRA TINOCO Tipo de Estudio: ULTRASONIDO DE MAMAS

Fecha: 27/04/2024

ULTRASONIDO DE MAMAS:

Descripción:

Se realizo ultrasonido con transductor lineal de alta frecuencia identificándose los siguientes hallazgos:

La piel de espesor y ecogenicidad adecuada.

El tejido celular subcutáneo es hipoecoico, homogéneo sin evidencia de alteraciones.

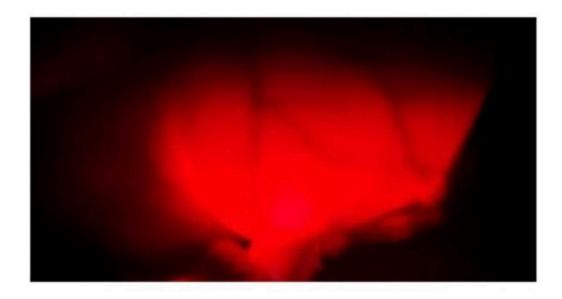
El tejido glandular, es ecogénico de predominio fibroglandular, heterogéneo, idenfiticandose en el cuadrante superior interno derecho en el radio 1 la presencia de quiste simple de 5.1x3.1ml, en el radio 5 otro quiste simple sin tabiques ni septos de 5x2.8ml. en el cuadrante superior externo derecho en el radio 10 a 3cm del pezón se observa otra imagen de aspecto quístico sin tabiques ni septos en su interior que mide 5.2x4.1ml.

En el radio 2 derecho a 1cm del pezón se observa otra imagen de contornos regulares y definidos con reforzamiento posterior hipoecoica que mide 5x4.1ml, en la Mama Izquierda en el radio 7 a 3cm del pezón imagen de aspecto quístico de 7.1x4.6ml.

Regiones retroareolares con conductos de calibre normal sin contenido en su

Regiones axilares normales.

On ultrasound the diagnosis is multiple cystic masses BIRADS II



Breast transillumination shows regular venous patterns without angiogenesis.



On ultrasound the diagnosis is dense breasts with simple cysts BIRADS II



Breast transillumination shows regular thickened venous patterns with a dark spot without angiogenesis.

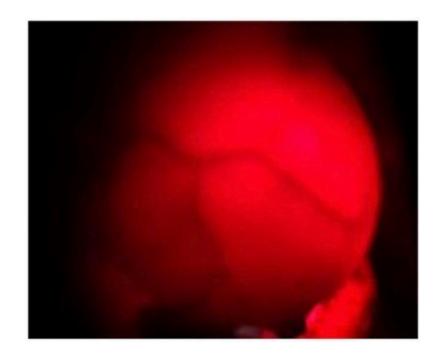


CONCLUSION:

- Ultrasonido de mamas que evidencia mamas con parénquima fibroglandular heterogéneo identificándose en ambas mamas la presencia de quistes simples sin tabiques ni septos hipovascular al Doppler color.
- 2. Se recomienda Mamografia por la edad de la paciente ya que nunca se ha realizado Mamografia.
- 3. BI-RADS II hallazgos benignos.



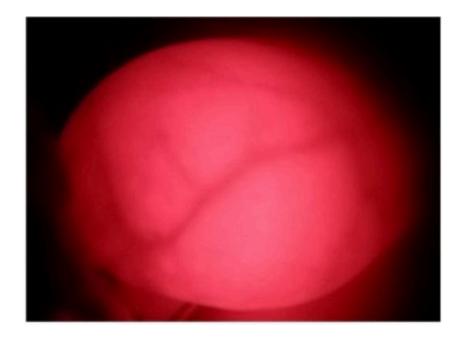
In the ultrasound, the diagnosis shows non-vascularized cystic images with the BIRADS II Doppler.



Regular venous patterns are observed in breast transillumination.



On ultrasound the diagnosis is dense fibroglandular breast tissue BIRADS 0



Regular thickened venous patterns are observed on breast transillumination.



ONCLUSION:

 Ultrasonido de mamas que evidencia mamas con parénquima fibroglandular, homogéneo sin identificárse la presencia de nódulos solidos se observa únicamente quiste simple BI-RADS II, hallazgos benignos.



The ultrasound reveals the presence of a simple BIRADS II cyst.



Breast transillumination shows breasts without defined venous patterns.



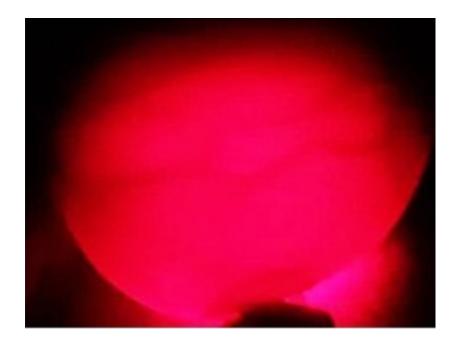
The ultrasound reveals the presence of simple BIRADS II cysts.



Breast transillumination shows breasts with a thickened venous pattern and a black spot on the nipple.



The ultrasound revealed the presence of a simple BIRADS II cyst.



Breast transillumination shows breasts with a poorly defined venous pattern.



In the ultrasound the diagnosis shows dense tissue breasts, presence of simple cyst BIRADS II



Breast transillumination shows breasts with a defined venous pattern.





ULTRASONIDO DE MAMAS:

Descripción:

Se realizo ultrasonido con transductor lineal de alta frecuencia identificándose los siguientes haliazgos:

La piel es de espesor y ecogenicidad adecuada.

El tejido celular subcutáneo es hipoecoico, homogéneo sin evidencia de alteraciones.

El tejido glandular, es ecogénico de predominio fibroglandular, heterogéneo, identificándose en Mama Derecha hacia la región retroareolar la presencia de pequeño quiste simple de 5.1x3.5mi.

Los conductos galactóforos de calibre normal midiendo del lado derecho 2.5ml. Del lado izquierdo mide 2ml.

Regiones axilares con la presencia de ganglios de características normales en la axila derecha mide 8.1ml. en la axila izquierda mide 1cm.

No hay presencia de masas axilares.

CONCLUSION:

- Ultrasonido de mamas que evidencia mamas con parénquima fibroglandular heterogéneo identificándose en mama derecha la presencia de quiste simple retroareolar sin tabiques ni septos.
- 2. BI-RADS II hallazgos benignos.
- 3. Regiones axilares con ganglios de características normales.
- 4. Las estructuras vasculares permeables.

Dra Mercy Diaz. Mass.
Especialista en Radiologia e imágenes Médica (188954461

In the ultrasound the diagnosis shows the presence of BIRADS II cysts in the breasts



Breast transillumination shows breasts with a thickened venous pattern and a non-vascularized black spot



The ultrasound revealed a mass with suspected malignancy BIRADS IV. The biopsy revealed a non-malignant phycoadenoma.



In breast transillumination, red breasts are observed under LED light without a defined pattern.

Nombre:
Edad: 42 Años Fecha: 04/05/2024
Sollicitante: DRA TINOCO Indicación:
Tipo de Estudio: ULTRASONIDO DE MAMAS



ULTRASONIDO DE MAMAS:

Descripción:

Se realizo ultrasonido con transductor lineal de alta frecuencia identificándose los siguientes hallazgos:

La piel es de espesor y ecogenicidad adecuada.

El tejido celular subcutáneo es hipoecoico, homogéneo sin evidencia de alteraciones.

El tejido glandular, es ecogénico de predominio fibroglandular, homogéneo, sin identificándose la presencia de nódulos solidos.

Las Regiones retroareolares con conductos de calibre normal sin contenido en su

Las Regiones axilares sin presencia de adenopatías.

Las estructuras musculares sin alteraciones.

CONCLUSION:

- Ultrasonido de mamas que evidencia mamas con parénquima denso fibroglandular, homogéneo sin identificarse nódulo solido ni quísticos.
- 2. BI-RADS I. hallazgos normales.

Ora Mercy Olaz. Mass.

Especialista en Radiología e Imágenes Medica su officia su offici

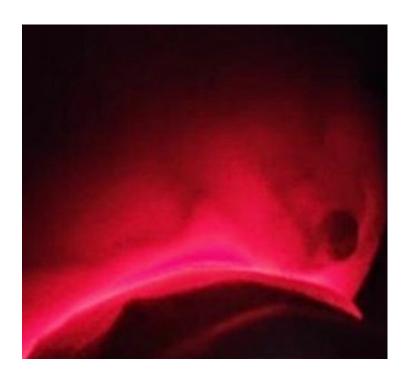
On ultrasound the diagnosis is dense breasts without cysts BIRADS I



Breast transillumination shows breasts with a defined venous pattern



Ultrasound shows the presence of cysts in the breasts BIRADS II



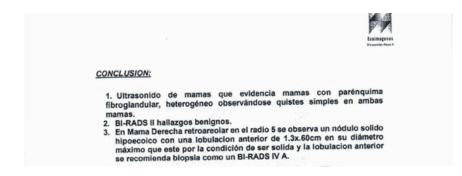
Breast transillumination shows breasts with a defined venous pattern and a small black spot on the nipple



In the ultrasound, the diagnosis shows the presence of benign masses BIRADS II



Breast transillumination shows breasts with a defined venous pattern and a small black spot on the nipple





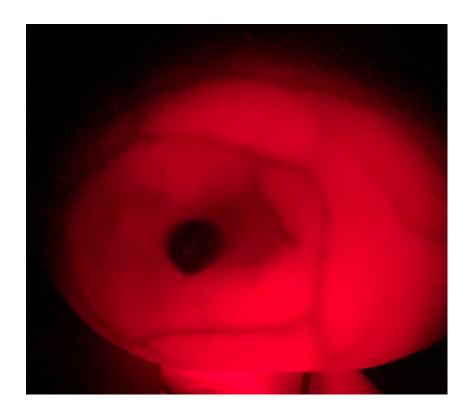
In the ultrasound the Diagnosis shows a solid mass BIRADS IV to the biopsy phycoadenoma



Breast transillumination shows breasts with a defined venous pattern and a small black spot on the upper left side of the nipple.



In the ultrasound the Diagnosis shows a solid mass BIRADS IV



Breast transillumination shows a small black spot on the left breast almost behind the nipple.

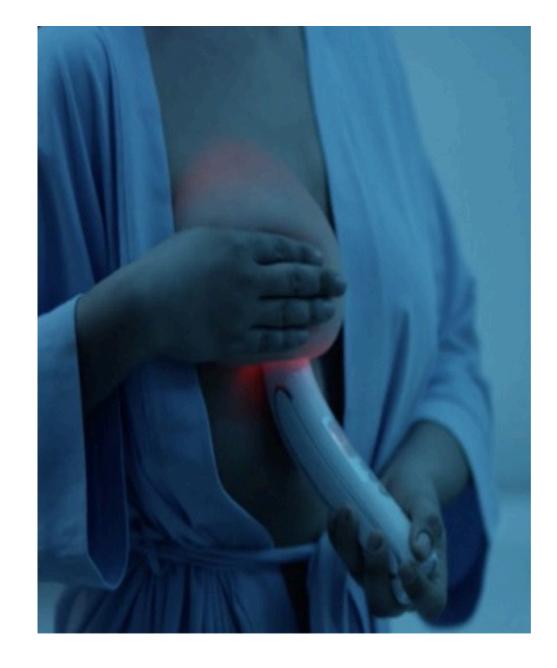


In the ultrasound the Diagnosis shows a solid mass BIRADS IV on the left breast

CONCLUSION

- LUMINOUS® breast transillumination device allows early detection of benign breast pathologies, confirmed by ultrasound.
- LUMINOUS® is a device that allows detection of irregular venous patterns that are possibly malignant.
- LUMINOUS® has a sensitivity and specificity similar to ultrasound in the detection of breast pathology







CONTACT Marylin Dans

mdans@luminousglobaltech.com