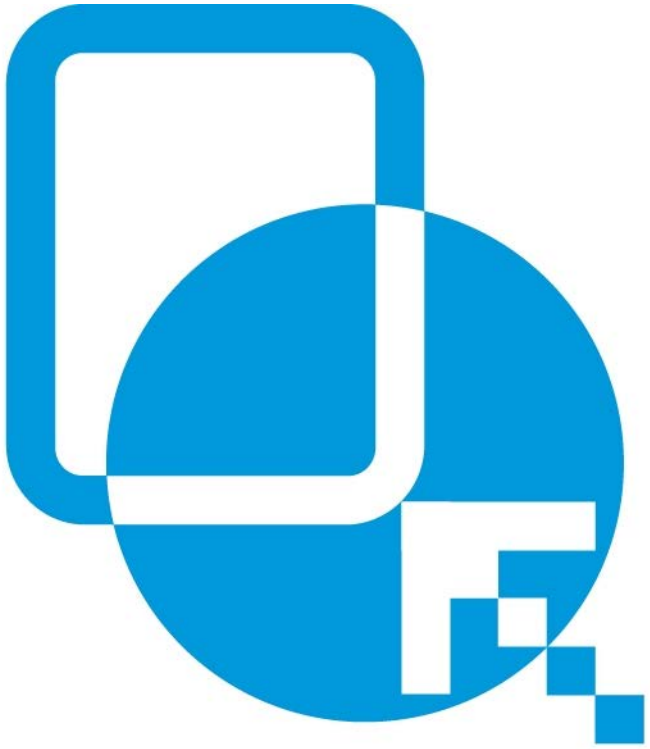
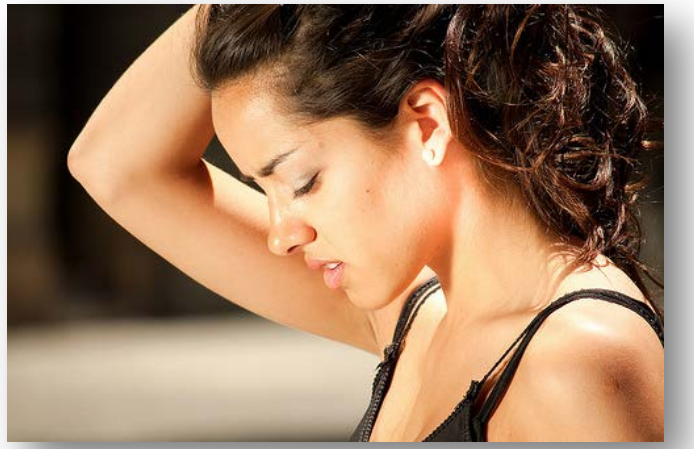


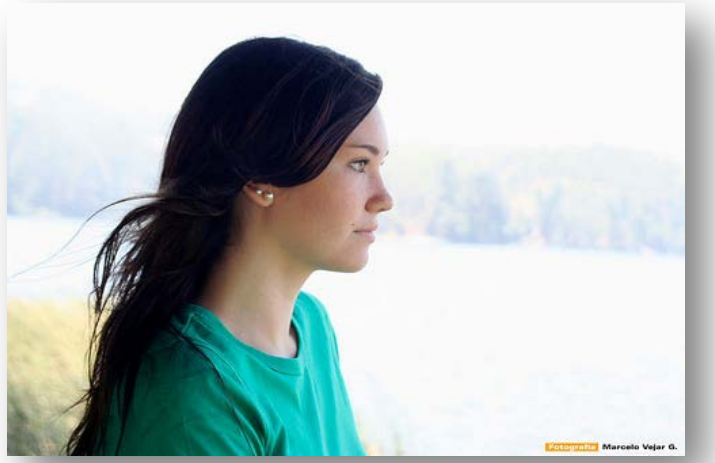
Images
TEAM

SOFTWARE DEVELOPMENT TO SUPPORT THE IMAGENOLOGICAL DIAGNOSIS OF CANCER

matcom



Ana Gonzalez, 30 years old, NIC level 3, was horrified unnecessarily because the end results were not as bad as diagnosed



Rosa Gutierrez, 26, was a false negative .... She had a very bad experience .... She began experiencing pain

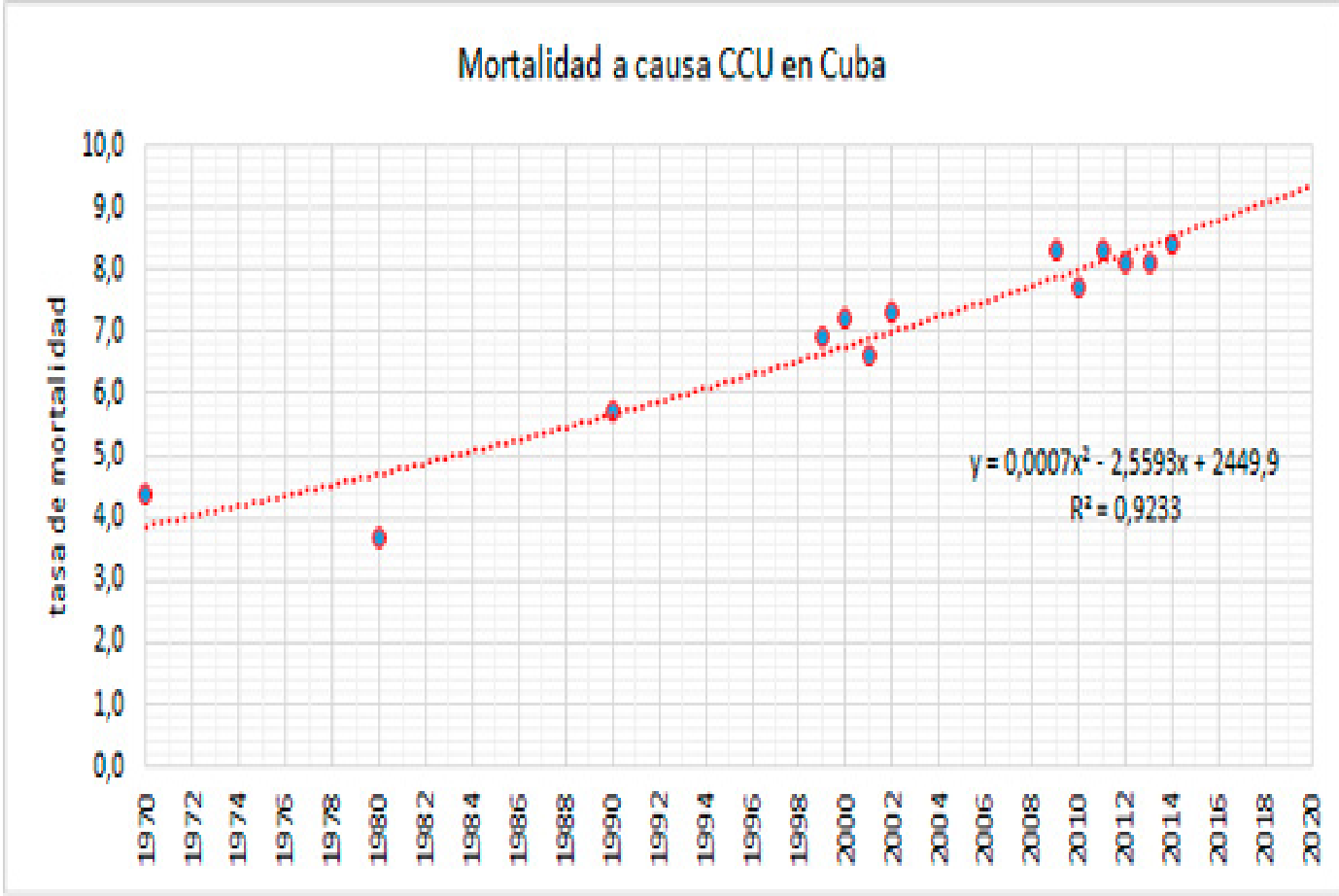
THE NEED FOR EARLY DETECTION OF CERVICAL CANCER

2ND TYPE OF CANCER MOST FREQUENT IN CUBA

SINCE 1968 NATIONAL PROGRAM FOR EARLY DETECTION

SINCE 2012 THE DEATH RATE DECREASED TO 8.4 WOMEN FOR EACH 100 000

THE INCIDENCE TENDS TO INCREASE

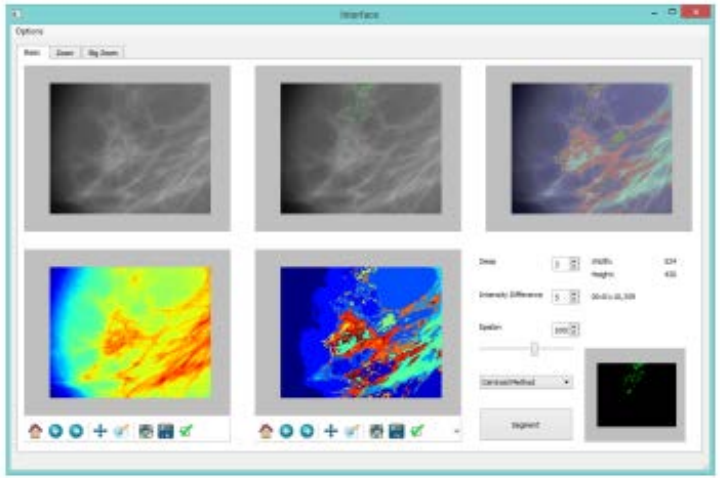


Datos tomados del Anuario Estadístico

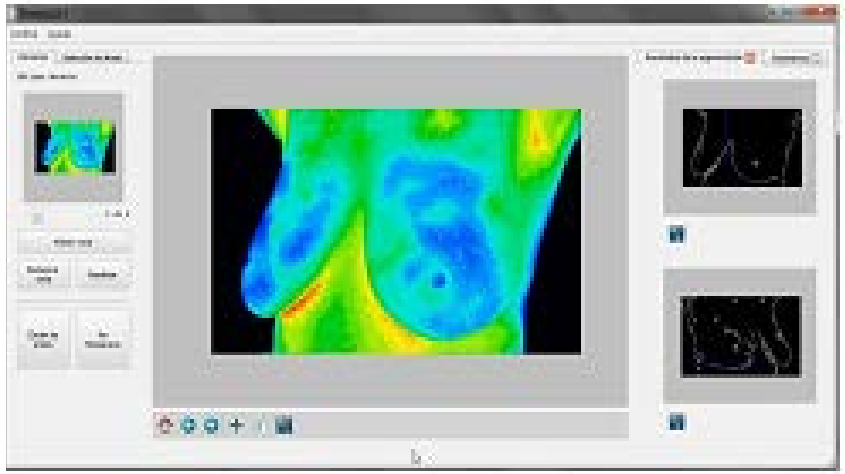
IMAGE PROCESSING

- CONTRAST ENHANCEMENT
- REMOVE SPECULARITY REGIONS
- RESTAURATION
- SEGMENTATION

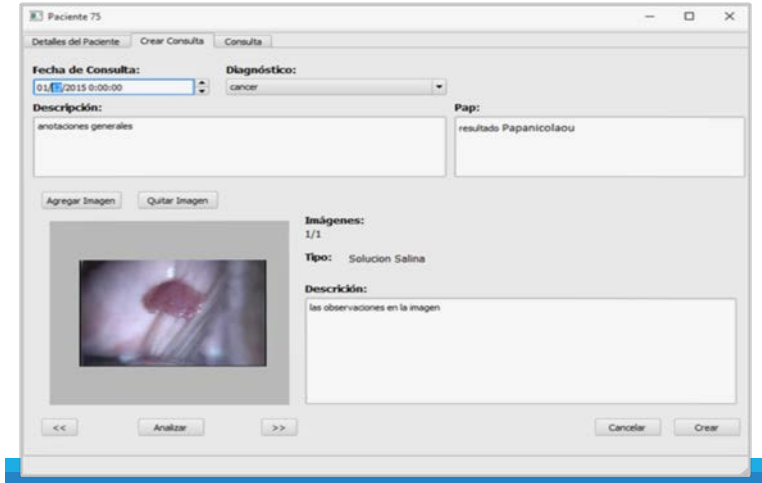
MAPROCUH



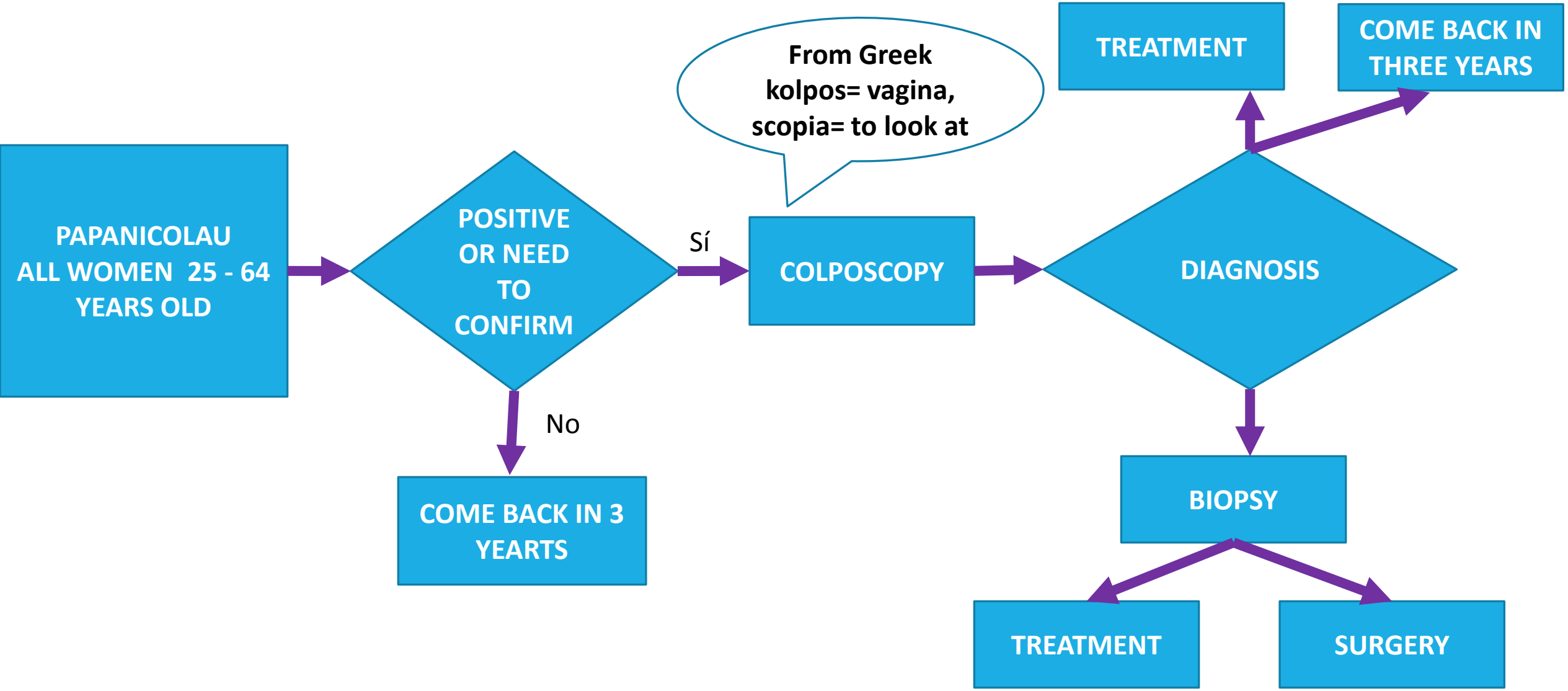
TERMOUH



COLPOUH



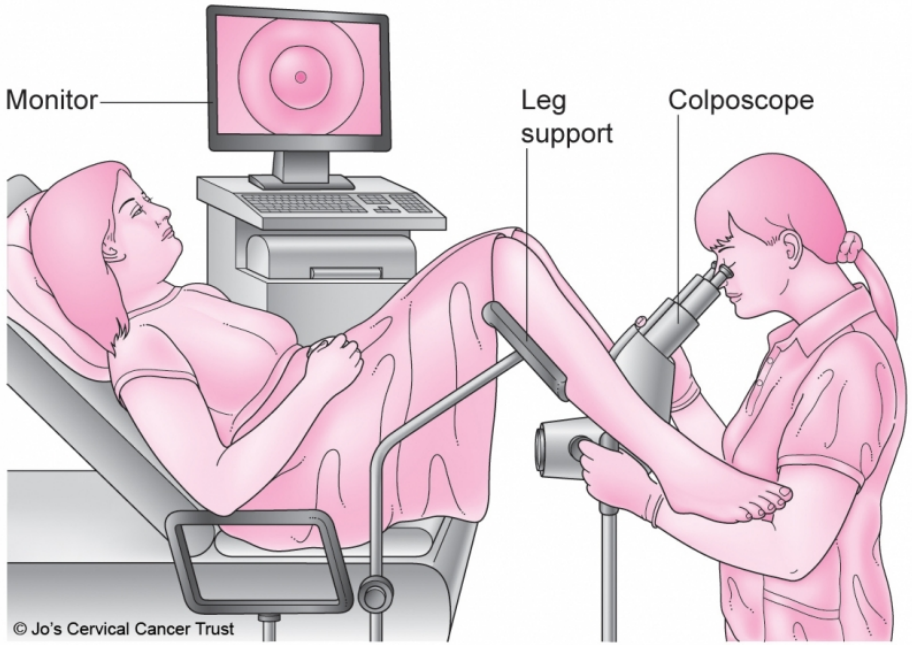
DIAGNOSIS OF CERVIX CANCER



1st Colposcope, 1925, Dr. Hans Hinselmann, Germany

SUMASCOPE

TecnoSuma INTERNACIONAL



SPIC

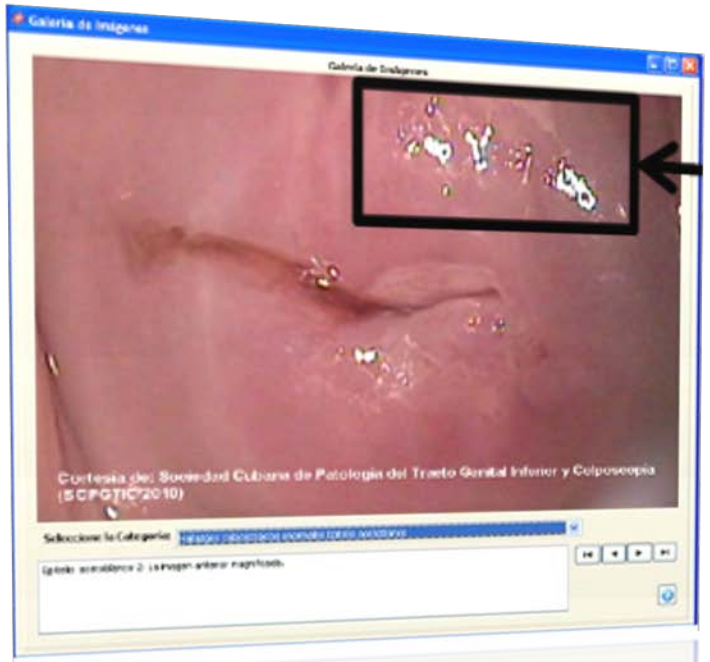
THE PROBLEM

IMPROVE ?

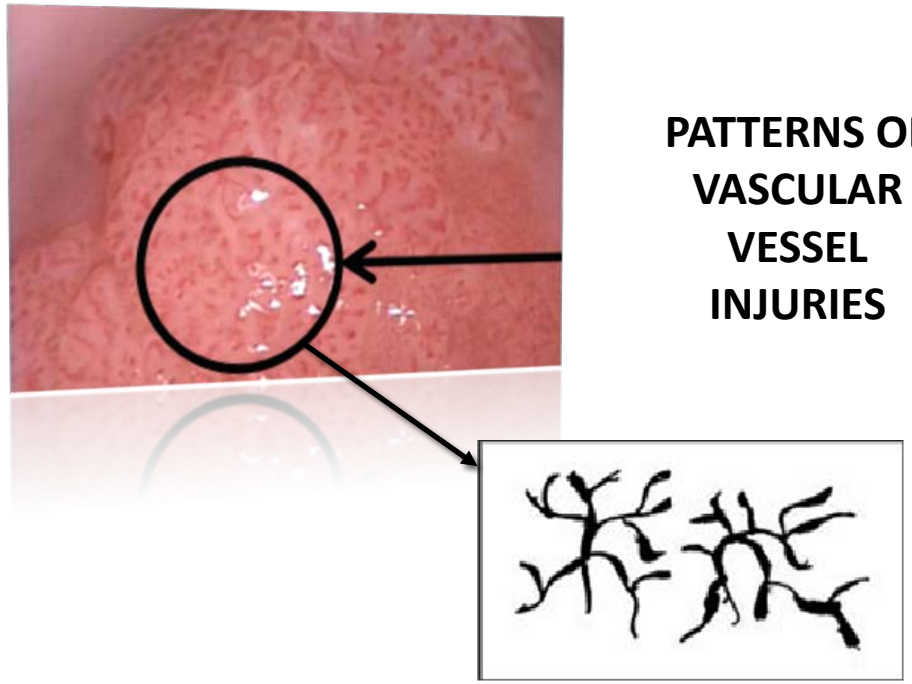
HELP

BETTER DIAGNOSIS

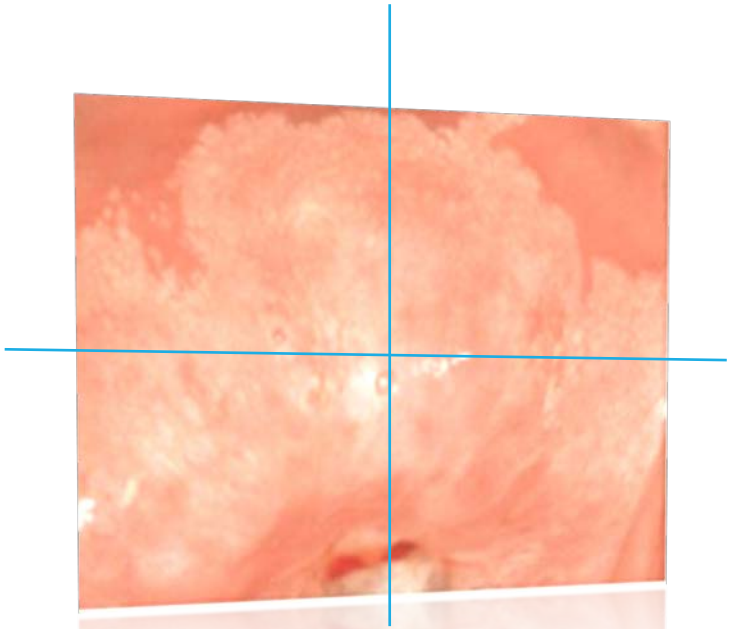
THE SOLUTION: COLPOUH



REMOVE SPECULARITY REGIONS

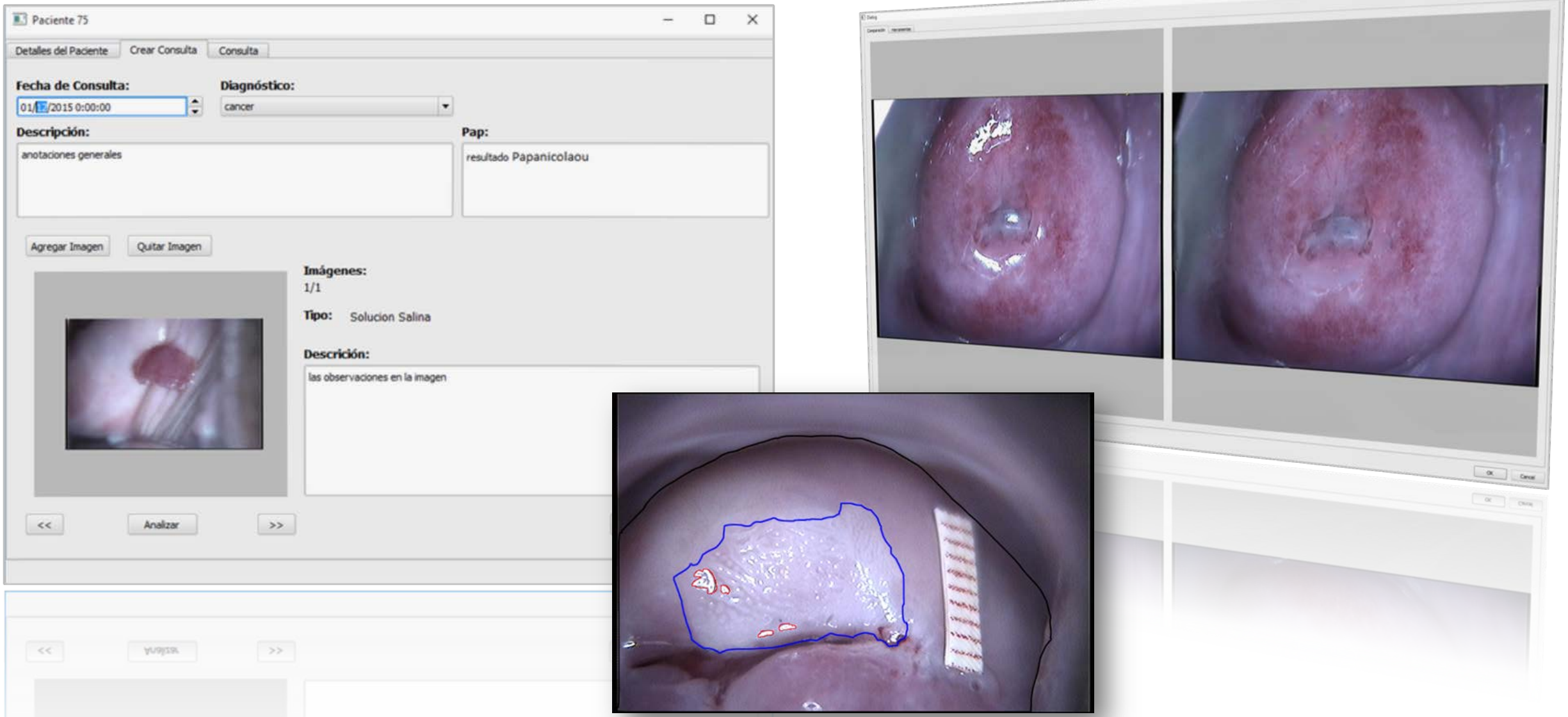


PATTERNS OF VASCULAR VESSEL INJURIES

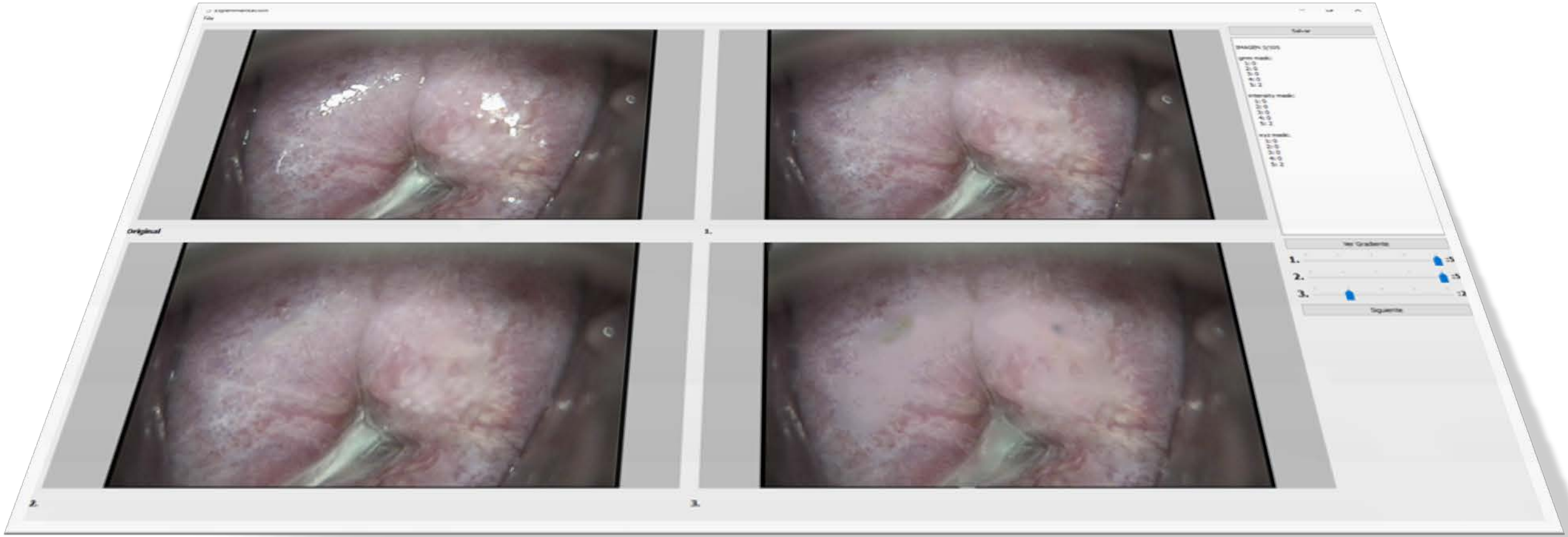


MARK AND MEASURE ACETO WHITE INJURIES

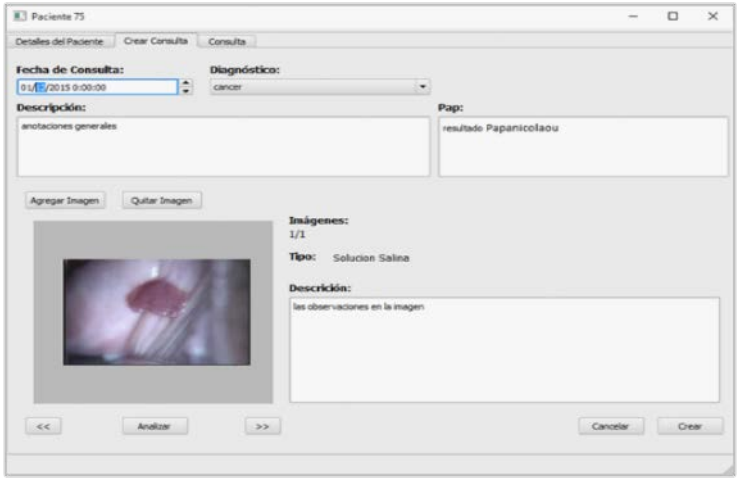
THE SOLUTION: COLPOUH



COLPOUH + EVALUATION TOOL



WHY COLPOUH



- IT´S A CUBAN PRODUCT DEVELOPED FOR CUBAN EQUIPMENT
- TRAINED WITH IMAGES FROM CUBAN PATIENTS TAKEN BY THIS EQUIPMENT
- WORKS ON ANY COLPOSCOPE
- SUITABLE TO TRAIN NEW DOCTORS

THE SOLUTION IS MUCH MORE:

+

Cuban new generation eHealth Programme (Design and Prototyping 2016, Deployment 2017)

SOFTEL **GALEN CLINICAS**

Fully equipped lab 10 seats about 70 000 CUC

Profit 30% - 40% thanks to value added to Galen Clínicas

Monthly Internet Fee 2400 CUC

Images
TEAM

THE TEAM

Dra. Marta L. Baguer

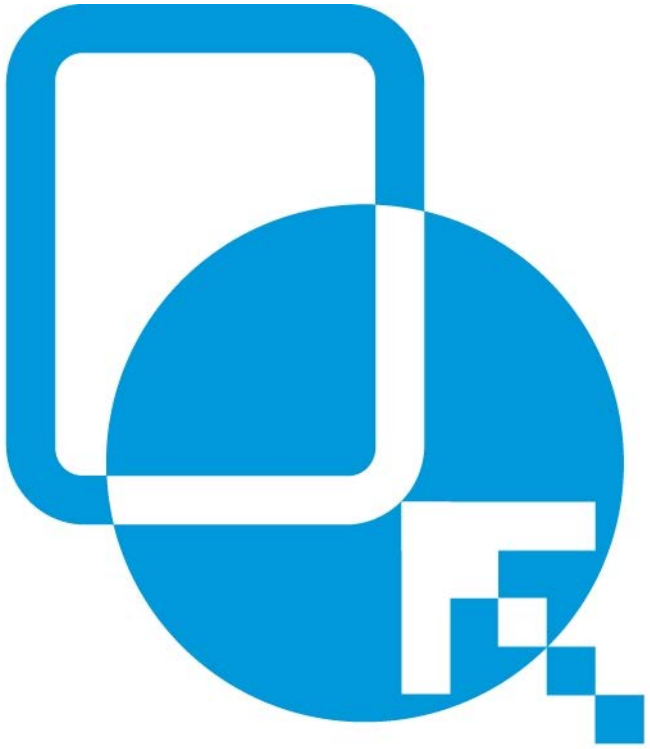
Dra. Ángela León

Damián Valdés

Dra. Águeda Santana

+

STUDENTS (MATCOM)



Images
TEAM

SOFTWARE DEVELOPMENT TO SUPPORT THE IMAGENOLOGICAL DIAGNOSIS OF CANCER

matcom