

# PRECAMA Study

- ***Population-based case-control study*** in breast cancer in premenopausal women, in 5 Latin American countries (Chile, Colombia, Costa Rica, Mexico, Brazil)

- ***Centers and main PIs***

- Chile: Dr ML Garmendia, INTA
- Colombia: Dr GI Sanchez, University of Antioquia
- Costa Rica: Dr. C. Porras, ACIB
- Mexico: Dr G. Torres-Mejía, Dr I. Romieu, INSP
- Brazil: Dr. F. Vazquez, BCH

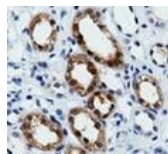


# PRECAMA Study

- **Cases recruited before any therapy**, controls matched to cases on age and residence
- **Standardized protocols** for clinical and exposure data (reproductive history, lifestyle, anthropometry, diet, environment), biological specimens, and tumor sampling and analyses
- **Molecular subtypes of premenopausal BC (FHCRC, IARC)**
  - Classification into by IHC
  - Analyses of tumor DNA for TP53 mutations and other genes linked to BC



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# PRECAMA - population



## ■ *Cases of breast cancer*

- ✓ aged 20-45
- ✓ resident for  $\geq 3$  years in the same city district
- ✓ having an incident primary invasive BC with positive biopsy and clinical staging
- ✓ recruited before any treatment

## ■ *Controls*

- ✓ Randomly selected from the underlying population residing in the same city district as the case for  $\geq 3$  years
- ✓ Matched to cases on age ( $\pm 3$  years), city district of residence, and health insurance institution.

# PRECAMA

## inclusion/exclusion criteria



### *For cases and controls*

- ✓ severe chronic disease (e.g. renal insufficiency);
- ✓ limited ability to communicate;
- ✓ pregnant or nursing;
- ✓ previous diagnosis and treatment of cancer (except non-melanoma skin cancer).

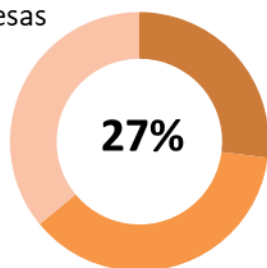
### *Current number of cases and controls recruited – on-going study*

	All	Chile	Colombi a	Costa Rica	Mexico	Brazil
Control	474	52	115	50	257	2
Case	484	54	115	50	265	6
Total:	958	106	130	100	522	8

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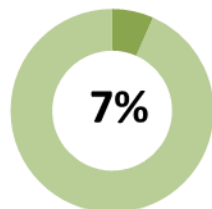
# PRECAMA- study population

36% obesas

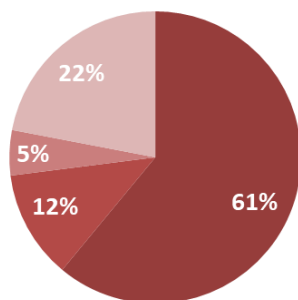


tiene un IMC normal

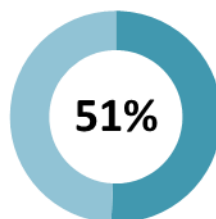
37% sobrepeso



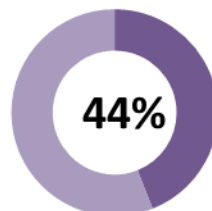
sufre diabetes



■ Luminal A  
■ Luminal B  
■ HER2-enriched  
■ Triple-negative



ha fumado



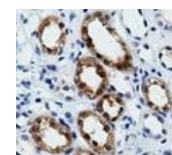
bebe alcohol

**3**

horas/día de actividad física moderada



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# PRECAMA Study - samples

## ■ *Biological specimens:*

- ✓ 20 aliquots of 0.2 ml of plasma
- ✓ 20 aliquots of 0.2 ml of serum
- ✓ 6 aliquots of 0.2 ml of RBC
- ✓ 6 aliquots of 0.2 ml of buffy coat
- ✓ 10 aliquots of 1 ml of spot urine

## ■ *Tumor tissues (FFPE):*

- ✓ 13 4 $\mu$ m-cuts for IHC and H&E, 9 to be shipped to FHCRC, 4 to be kept on site
- ✓ 6 $\mu$ m-cuts for DNA extraction to be sent to FHCRC:
  - a. if < 0.5 cm cut 9 sections
  - b. if > 0.5 cm and
  - c. if > 1.0 cm cut 3 sections

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