

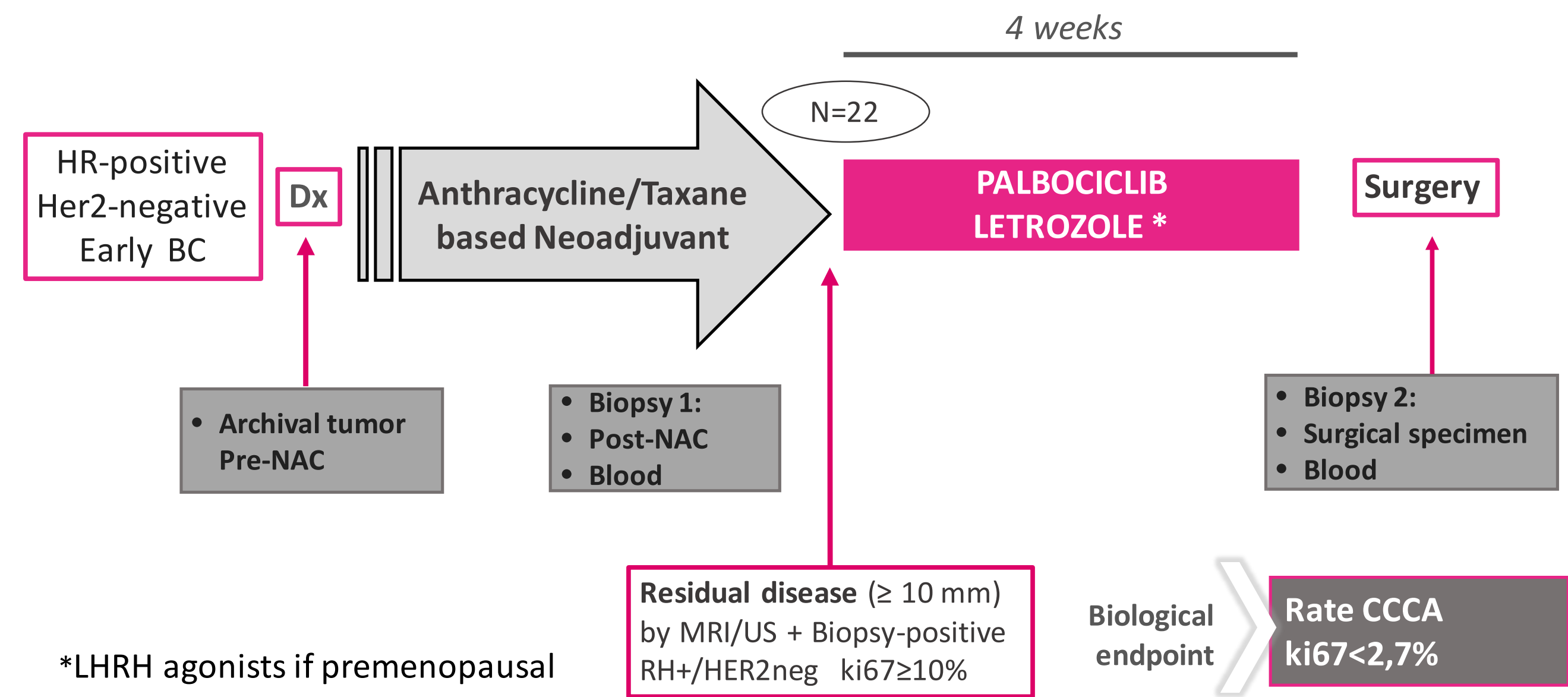
BACKGROUND

- Despite the improvement in the treatment of early-stage breast cancer (BC) with chemotherapy, many patients have residual disease with a higher risk of metastatic recurrence and poorer outcome than those who achieve a pathological complete response (pCR), particularly in highly proliferative tumors¹.
- In HR+ BC, the pCR rates after NAC are around 10-15%. Thereby additional strategies are necessary to eradicate these residual tumor cells.
- The post-neoadjuvant setting represents the best scenario to select a population with a high recurrence risk.
- The combination of cyclin-dependent kinase inhibitors with first or second-line endocrine therapy are options for advanced BC²⁻³ and its role in the early-setting is being evaluated in several studies.
- Posttreatment Ki67 levels provide prognostic information for patients with HR+ BC and residual disease⁴, but the prospective validation of this biomarker is necessary.

HYPOTHESIS

We hypothesize that the combination of palbociclib with letrozole offers clinical benefit in the preoperative setting for HR+ Her2-negative early breast cancer patients, with high risk of recurrence with residual disease after NAC.

STUDY DESIGN



KEY ELEGIBILITY CRITERIA

Inclusion

- Pre and postmenopausal patients.
- Have completed ≥80% total dose of an anthracycline/ taxane-based NAC.
- Histologically confirmed HR+/HER2- BC:
 - Eligible for surgery.
 - A residual lesion ≥ 10 mm by MRI after neoadjuvant chemotherapy.
 - Ki67% ≥ 10% after neoadjuvant chemotherapy locally assessed.

Exclusion

- Inoperable, locally advanced after NAC.
- Prior therapy with palbociclib or any CDK inhibitor.

PRIMARY ENDPOINT

- To analyse **Complete Cell Cycle Arrest (CCCA)** determined by Ki67 < 2.7% at surgery, by central assessment.

SECONDARY ENDPOINTS

- To assess the **residual cancer burden (RCB)**, after neoadjuvant treatment, as per local assessment.
- To determine the **pCR (ypT0/TisypN0)** rate after neoadjuvant treatment.

EXPLORATORY ENDPOINTS

- Changes in **gene expression (752 genes)** and **PAM50 intrinsic subtype** between pre and post-treatment paired samples.
- Rate of cell cycle suppression according to BC subtype.
- Changes in **TILs** and in **PDL1 expression** by IHQ pre and posttreatment.
- ceTIL score** increase at surgery.
- ctDNA determination** postNAC and at surgery.

CURRENT STATUS

The recruitment is ongoing in 8 sites across Spain.

REFERENCES

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