window program

SOLTI-1710 PROMETEO II study: Palbociclib in combination with letrozole in Hormone Receptor-positive (HR+)/HER2-negative residual disease after standard neoadjuvant chemotherapy

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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.



KEY ELEGIBILITY CRITERIA

Inclusion

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

Exclusion

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



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□ 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), 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.
- **celTIL score** increase at surgery.
- **CtDNA determination** postNAC and at surgery.

CURRENT STATUS

The recruitment is ongoing in 8 sites across Spain.

REFERENCES

- 1. Cortazar P. et al . Lancet 2014.
- 2. Finn RS et al. N Engl J Med 2016.
- 3. Turner NC. Et al. N Engl J Med 2018.
- 4. MAC.X et al . Clin. Cancer Research 2017.
- 5. W.F. Symmans. JCO 2007

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