





BIOMARKERS OF PROSTATE CANCER AGGRESSIVENESS

A research group from IISPV has identified a new non-invasive biomarker panel that could help clinicians in the differential diagnosis of high risk or intermediate risk prostate cancer from low risk prostate cancer patients and thereby improving financial and health outcomes.

The Need

The main problem in the management of prostate cancer (PC) is the inability to distinguish with certainty, prior to proposing a therapeutic attitude, between slow-growing and indolent, aggressive tumors with an impact on patient survival. This fact may lead to an under treatment of aggressive tumors or an overtreatment in the opposite case

Although prostate antigen (PSA) is a routinely used marker for PC, its effectiveness as a specific marker for diagnosis and prognosis is questioned by clinicians. As a consequence, robust biomarkers are needed for the early screening of patients at risk of PC.

The Solution

We provide a non-invasive biomarker panel for predicting prostate cancer aggressiveness based on the detection of 3 biomarkers in 2 different biofluids. This approach will considerably reduce the number of patients biopsy intervention and further clinical complications.

Innovative Aspects

The main innovate aspect of the method is that **is non-invasive** and **is based on 2 biofluids** (blood and semen) and the selected biomarkers can be **easily measured** by one **simple ELISA and a PCR test.** This biomarker panel improves current available methods for the decision on prostate cancer aggressiveness.

Stage of Development:

The method has been described in a cohort of 42 subjects and it is pendent of independent validation in wider cohort.

