

عنوان مقاله:

The Prognostic Significance of ALDH-1 and SOX9 Expression in Early Breast Cancer

محل انتشار:

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خلاصه مقاله:

Background: Aldehyde dehydrogenase 1 (ALDH1) is an enzyme accountable for the detoxification of aldehydes. Sexdetermining region Y-box 9 (SOX-9) plays a role in many biological and pathological processes. In this study, we aimed to evaluate the prognostic significance of ALDH) and SOX9 expression in early breast cancer. Method: The expression of ALDH1 and SOX-9 was evaluated through immunohistochemistry derived from ۵. eligible patients with early breast cancer included in the current prospective cohort study.Results: Positive expression of ALDH1 and SOX-9 were detected in Y9 (0A%) and WF (FA%) patients, respectively. The positive expressions of both markers were statistically significant associated with increasing the stage, lymph nodes metastasis, high KiFY labeling index, and molecular subtypes (P < 0.001), along with with the biological markers; estrogen receptors, progesterone receptors, and human epidermal growth factor receptor Y over-expressions, and large tumor size (P = 0.0 P), P = 0.0Y, P = 0.0Y, and P = 0.0•.•• \mathcal{P} for ALDH1 expression and $P = \bullet.\bullet1\mathcal{P}$, $P = \bullet.\bullet\bullet\mathcal{P}$, $P = \bullet.\bullet\bullet\mathcal{P}$, and $P = \bullet.\bullet\bullet\mathcal{P}$ for SOX-9 expression, respectively). There is a significant positive association between the expression of ALDH) and SOX-9, r (correlation coefficient) = +•. Λ • \mathcal{F} (P < •.••). Local recurrence was associated with the positive expression of ALDH1 only (P = •.• \mathcal{F}) and the disease progression was statistically significant and associated with the positive expression of both ALDH1 and SOX-9 (P = 0.0%), P = 0.0%, respectively). There was significant association of positive expression of SOX-9 with reduced %-y disease-free survival (P = 0.0 M9). Conclusion: Positive expression of ALDH-1 and SOX9 were associated with aggressive histopathological features and poor outcome in early breast cancer and can be considered potential .prognostic markers in this group of patients

کلمات کلیدی: Early breast cancer, Neoplastic stem cells, Aldehyde dehydrogenase ۱, SOX۹, Prognosis

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