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CYFRA 21-1 has been widely studied as an important [biomarker](#) in [non-small cell lung cancer](#) for both [diagnosis](#) and [prognosis](#). Many studies have also assessed the clinical applications of CYFRA 21-1 in head and neck [cancer](#), but the diagnostic and prognostic values of CYFRA 21-1 are not yet fully established.

A [pooled analysis](#) aimed to evaluate the diagnostic accuracy and prognostic applications of CYFRA 21-1 in patients with head and neck cancer. A systematic retrieval of [literatures](#) was conducted without time or language restrictions by searching [PubMed](#), [EMBASE](#), [Web of Science](#), [Cochrane library](#) and [China National Knowledge Infrastructure](#). Twenty studies were eligible for [systematic review](#), of which 14 conformed for diagnostic analysis and 7 for prognostic analysis. The pooled sensitivity and specificity of CYFRA 21-1 analysis were 0.53 (95% CI: 0.39-0.67) and 0.97 (95% CI: 0.93-0.99), respectively. A high level of CYFRA 21-1 was significantly correlated with shorter [overall survival](#) (HR 1.33, 95% CI: 1.13-1.56) and disease-free survival (HR 1.48; 95%CI: 1.10-1.97). Current [evidence](#) indicates that the level of CYFRA 21-1 in the serum could be used as an indicator for monitoring tumor status and evaluating its curative effects ¹⁾.

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