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Hyperpolarized Xenon 129

National Cancer Institute

Source

National Cancer Institute. *Hyperpolarized Xenon 129*. NCI Thesaurus. Code C128034.

A contrast agent composed of hyperpolarized xenon Xe 129 gas (HP129Xe), with potential usage in diagnostic nuclear magnetic resonance (NMR)-based imaging (MRI). Upon inhalation, the hyperpolarized xenon 129 gas is distributed throughout the lungs. MRI, immediately following HP129Xe administration, allows for the visualization of lung structures based on the distribution pattern of the gas. This may aid in the diagnosis of certain lung abnormalities. Hyperpolarization of Xe 129 enhances NMR signals and thus improves imaging and assessment of lung function.