Abstract:
PET/MR is a new multimodal imaging technique that is expected to improve diagnostic performance, especially in oncologic patients in certain indications. Apart from the clinical relevance of PET with (18)F-FDG, various other tracers exist and are increasingly used, which allow insights into multiple physiologic and biologic processes. In this review, we discuss the current and potential future applications of hybrid PET/MR, focusing on non-(18)F-FDG tracers. The combination of PET and MR in hybrid whole-body PET/MR systems has the potential to combine excellent morphologic, functional, and biologic information in 1 imaging session with precise image coregistration, thus paving the way for the concept of multimodal multiparametric imaging for future more widespread clinical use.
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