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Ralph Showalter* (show@math.oregonstate.edu), Department of Mathematics - Kidder 368, Oregon State University, Corvallis, OR 97331-4605, and **Alireza Hosseinkhan**. *Displacement Constraints in Biot Systems*. Preliminary report.

A fully-saturated poroelastic medium is deformed by internal pressure-driven fluid flow coupled on its boundary to the stress of the external fluid and the constraints of a bounding surface. The formulation leads to a well-posed unilateral initial-boundary-value problem for the Biot - fluid system and the unknown contact surface of the medium. (Received January 30, 2018)