



Figure 3 – figure supplement 2. *HIF-1 α* and *NOX4* kinetics under DF. A. HAECs were subjected to UF for 24 hours prior to switching to DF for the indicated times. *HIF-1 α* reaches maximal induction at 4 hours before stabilizing at a slightly lower level. *NOX4* increases steadily with increasing duration of disturbed flow. **B.** HAECs were treated with either non-targeting siRNA (-) or siRNA targeted towards *NOX4* (+) for 24 hours before subjecting to DF for 4h. Reducing *NOX4* at early time points, even when *NOX4* is not abundant, will reduce *HIF-1 α* expression.