

Supplementary Video Captions

Supplementary Video 1. Transport of uncoated polystyrene particles (PS-COOH; ~220 nm in diameter) in fresh human cervicovaginal mucus over the course of 20 s movies (15 fps, shown at 2x speed).

Supplementary Video 2. Transport of PLGA particles coated with PVA (PLGA/PVA; ~140 nm in diameter) in fresh human cervicovaginal mucus over the course of 20 s movies (15 fps, shown at 2x speed).

Supplementary Video 3. Transport of PLGA particles coated with Vitamin E TGPS (PLGA/VP1k; ~220 nm in diameter) in fresh human cervicovaginal mucus over the course of 20 s movies (15 fps, shown at 2x speed).

Supplementary Video 4. Transport of PLGA particles coated with Vitamin E-PEG5k (PLGA/VP5k; ~270 nm in diameter) in fresh human cervicovaginal mucus over the course of 20 s movies (15 fps, shown at 2x speed).

Supplementary Video 5. Transport of polystyrene particles densely coated with 2 kDa PEG (PS-PEG; ~230 nm in diameter) in fresh human cervicovaginal mucus over the course of 20 s movies (15 fps, shown at 2x speed).