**Supplemental Figure Legends**

**Figure S1.** Time course of biological parameters of non-resolving ARDS patients with (circles, continuous line) or without (squares, dashed line) "corticosteroid-sensitive" pathology. Day 0 is the day of ARDS diagnosis.

**Figure S2.** Time course of respiratory variables of non-resolving ARDS patients after lung biopsy, with or without treatment with steroids. Patients with a steroid sensitive pathology and a treatment with steroids are represented with circles and continuous line, patients with a steroid resistant pathology and treated with steroids are represented with squares and a dashed line, patients with a steroid resistant pathology and without steroid treatment are represented with triangles and a dotted line. Day 0 is the day of steroids initiation (if steroids were given) or the day of OLB (if no steroids were given).