Early identification of high risk patients

Consecutive hospitalized Olmsted county residents

- Excluded: children, ALI/ARDS on admission, denied research authorization
- Lung injury prediction score: LIPS Screening
- Electronic syndrome surveillance: ARDS Sniffer

Patients at high risk of ALI/ARDS (LIPS≥3.5)

- \( \text{PaO}_{2}/\text{FiO}_{2} < 300 \)
- "bilateral infiltrate" OR "edema"

Controls: No ALI/ARDS n=500

Matched by the probability of developing ALI/ARDS

CASES: ALI/ARDS n=500

In hospital exposures

- High resolution monitoring of nursing & physician interventions

Relevant outcomes

- Biochemical collection for collaborative studies
- Six month unadjusted and quality-adjusted survival, hospital & intensive care unit length of stay
- QOL, neuromuscular, cognitive & psychologic surveys