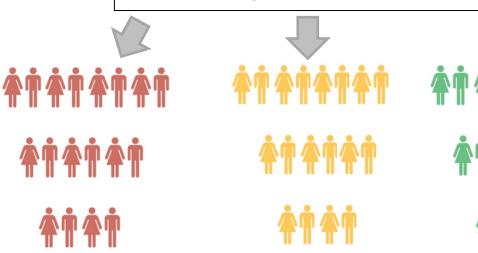**Heterogeneous population with sepsis**

(environment, genetics, demographics)

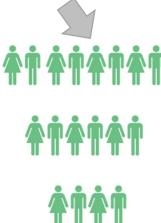**Unsupervised classification**

(regardless of outcome)

Subphenotype 1

- High serum lactate levels.
- Hypotension requiring vasopressors.
- High mortality risk.

Subphenotype 2

- Older patients.
- Frequent chronic illness and kidney disease.
- High mortality risk.

Subphenotype 3

- Few abnormal laboratory values.
- less organ system dysfunction.
- Low mortality risk.

Supplemental digital content 2. Unsupervised learning algorithms can be used to identify "hidden" subphenotypes of septic patients based on their clinical and biological characteristics, regardless of outcome.