Predicting Survival Rate of Acute Myeloid Leukemia (AML) Based on Cancer Cell Gene Expression

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Problem
Cancer treatment is risky. Bone marrow transplants have a 30% death rate.

Doctors must determine whether treatment truly increases chance of survival.

Genetic data from cancer cells predicts life expectancy.

Data
Gene expression frequency determined from cancer cell molecular profile.

Genes vary greatly, from transmembrane proteins to gene-regulation segments.

Cancer patient survival status also tracked.

Reducing Dimensions

Using pre-determined dimension-reducing parameters