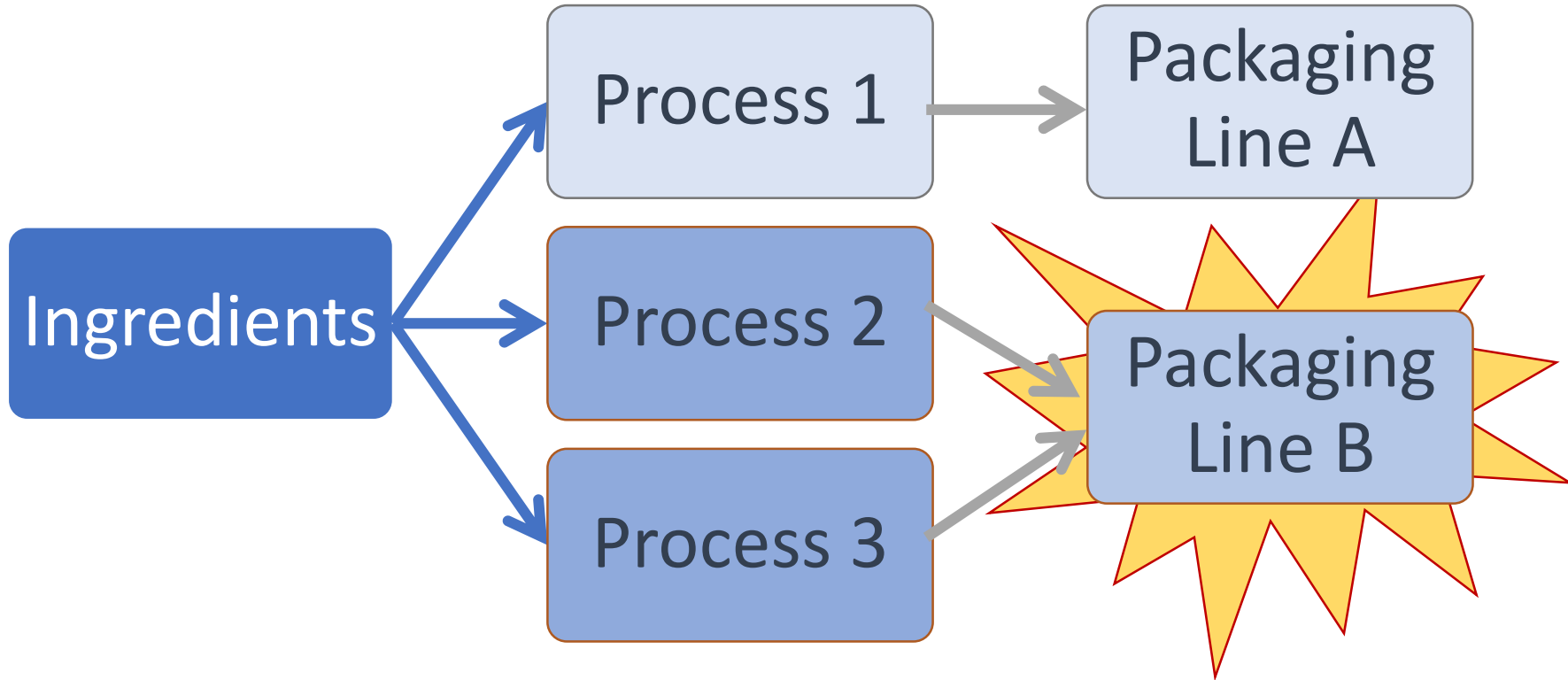


# Microbiological Testing for Process Control

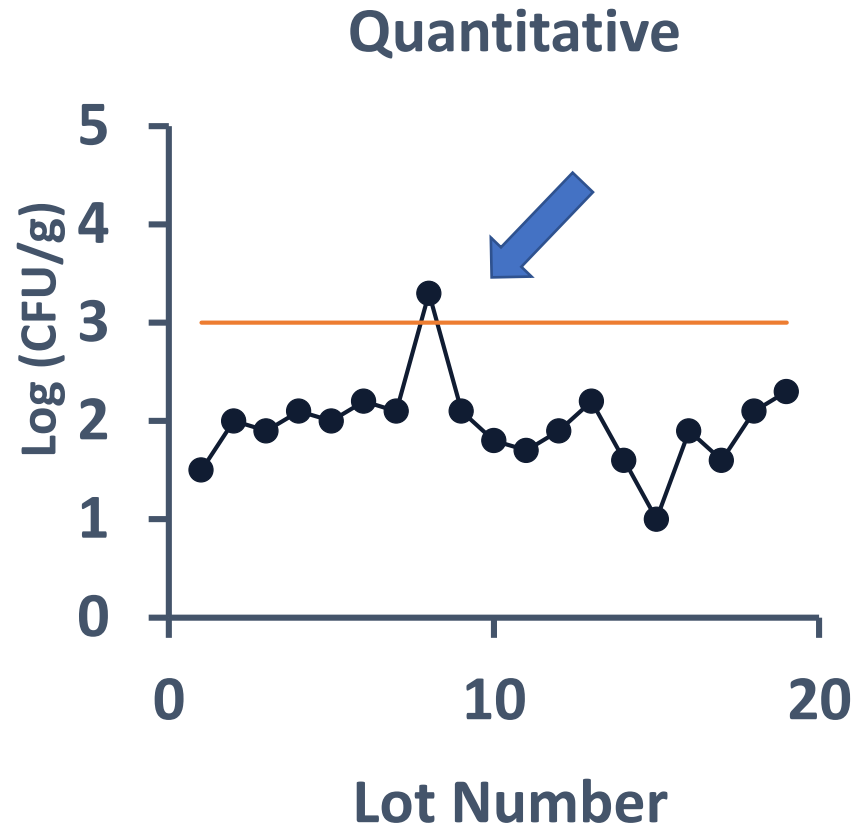
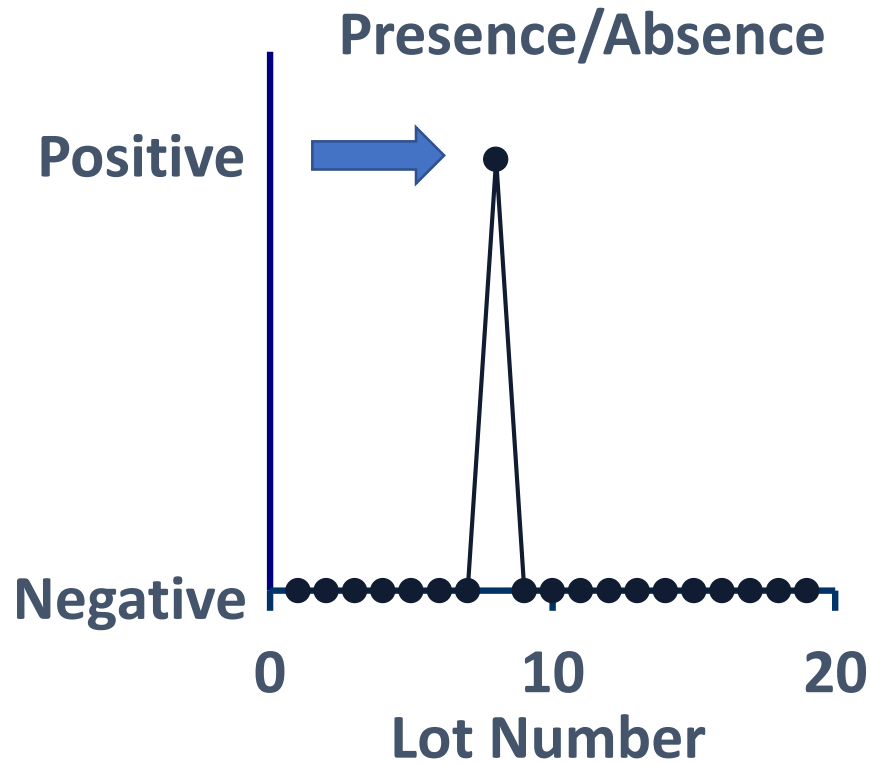
Katherine M.J. Swanson, Ph.D.

President, KMJ Swanson Food Safety, Inc.

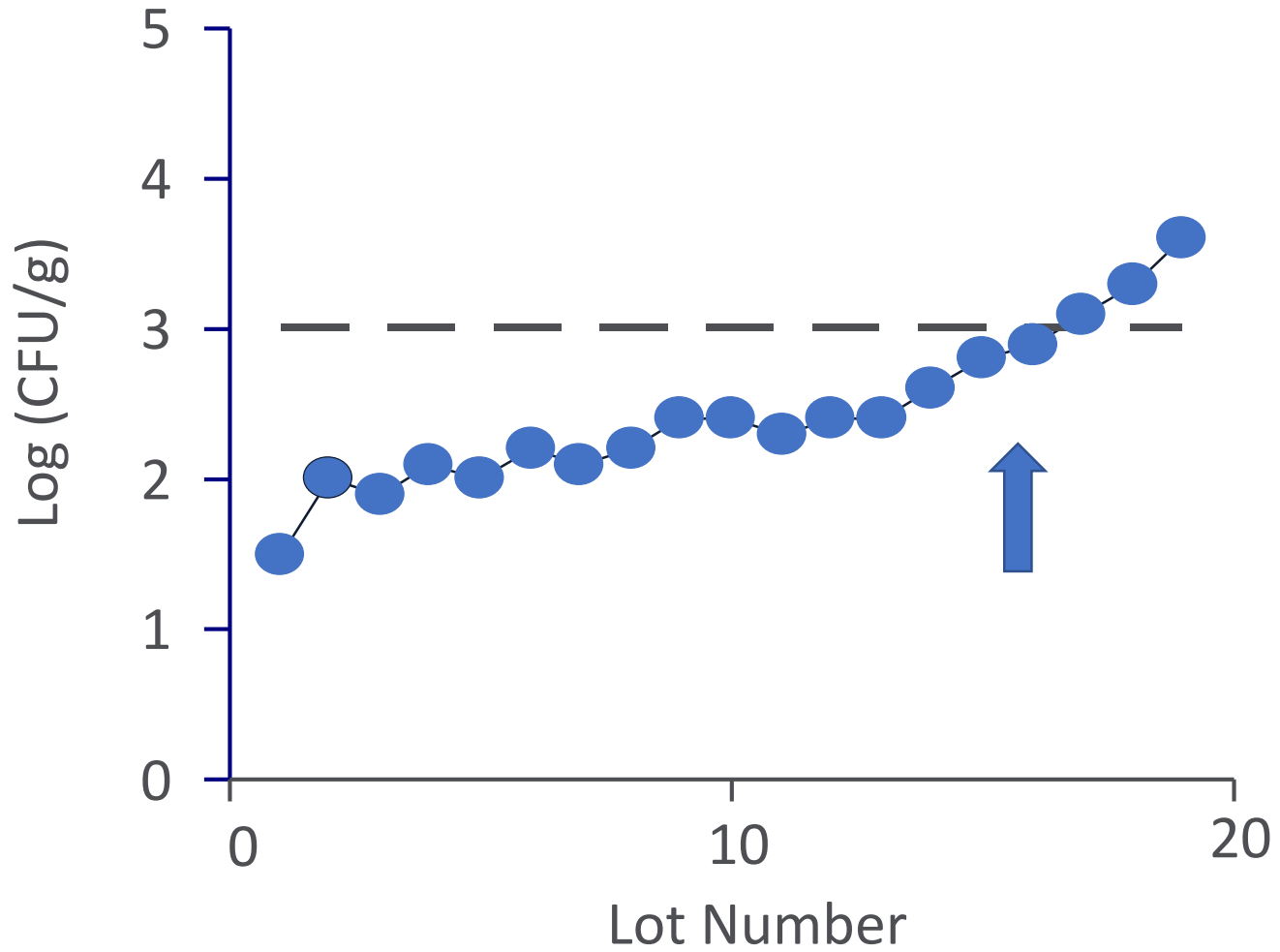
# Process Example



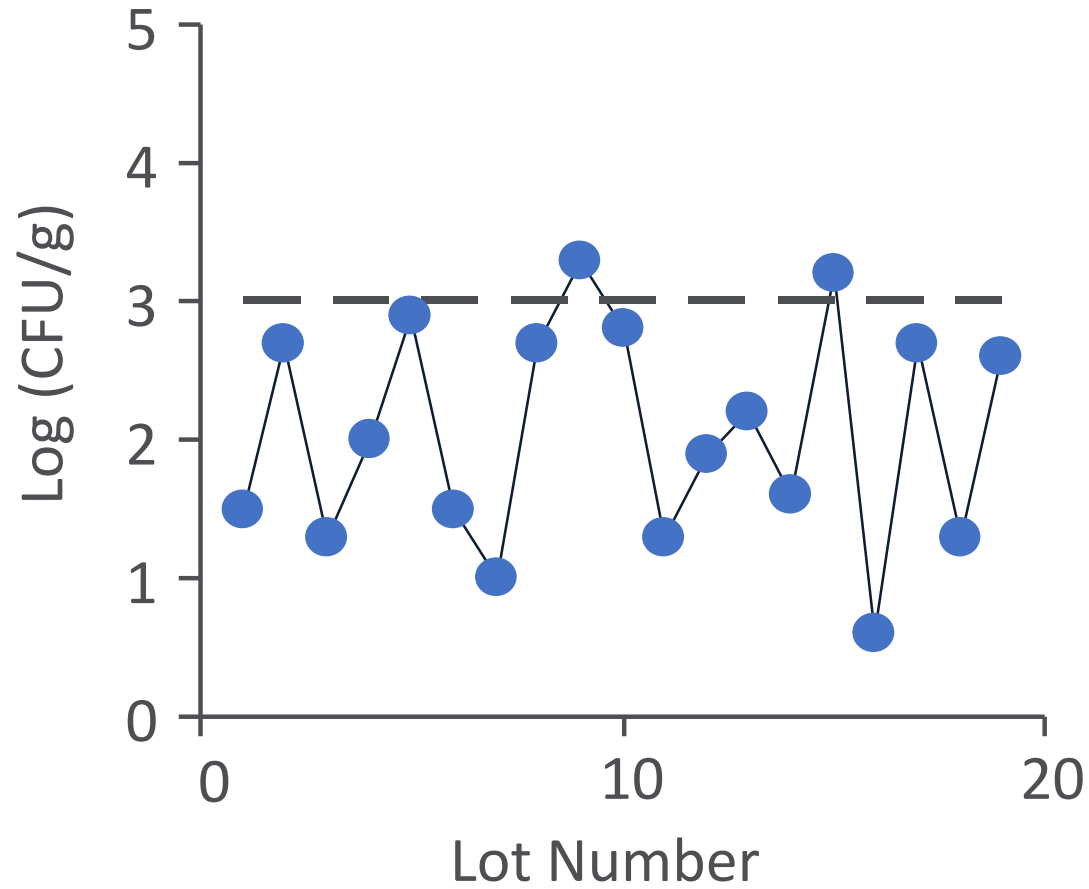
# Test Method Influences Information



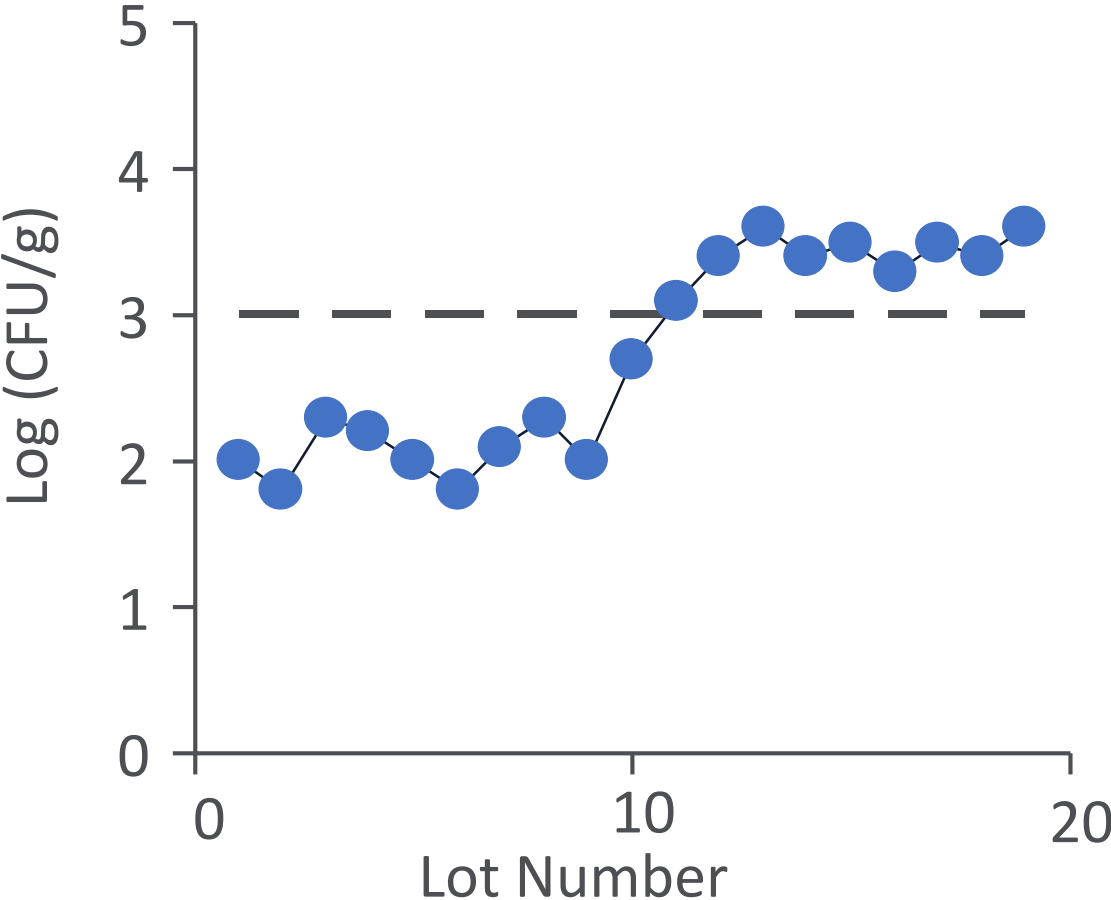
# Direct Corrective Action Before Loss of Control



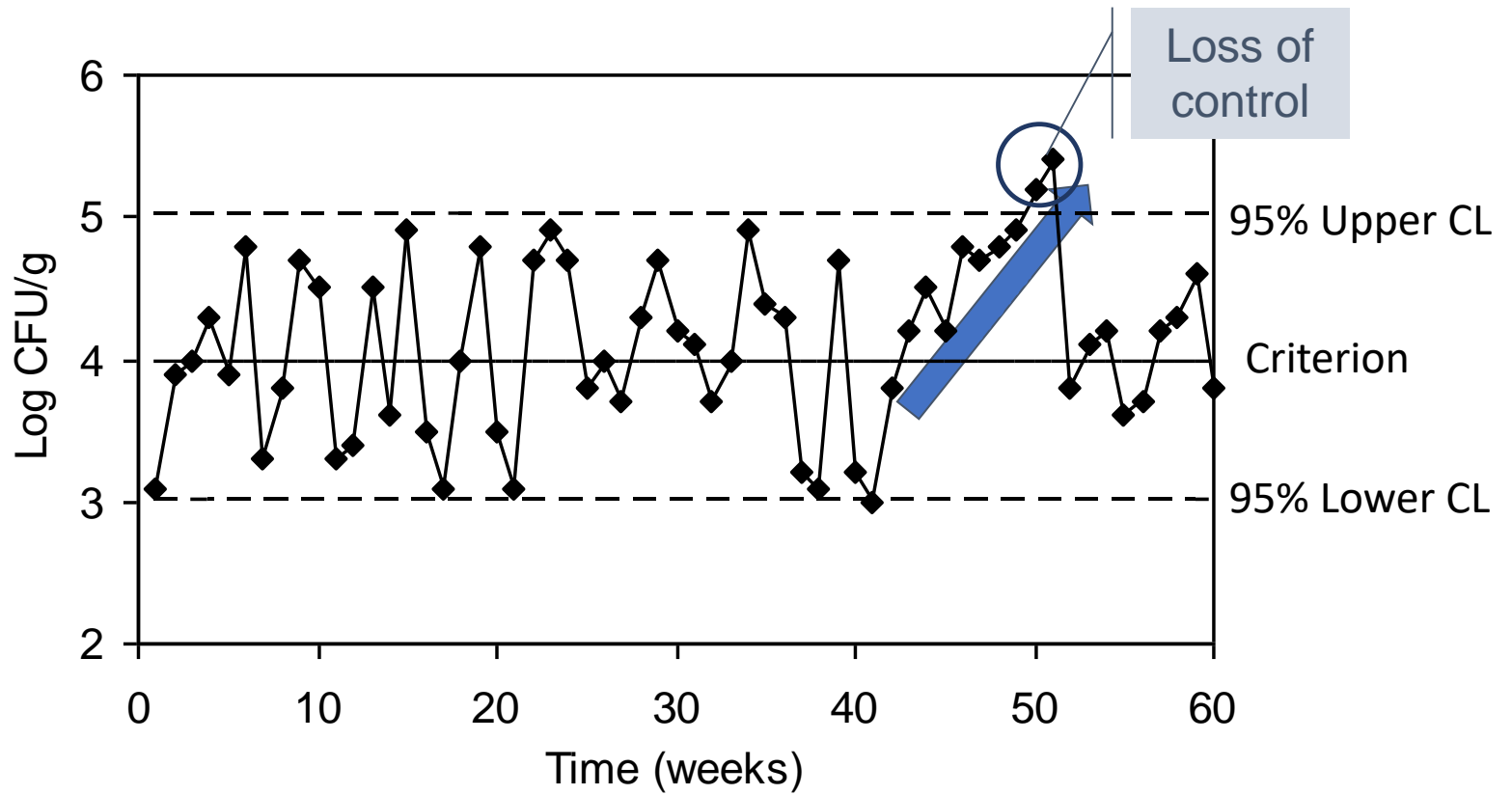
# Wide Variation May Occur Naturally



# Trend Analysis Informs Process Control



# Process Control Example



# Conclusions

Adapted from ICMSF 2011.  
*Microorganisms in Foods 8: Use  
of Data for Process Control and  
Product Acceptance*

For more information, see  
[www.icmsf.org](http://www.icmsf.org)



- Analyze microbiological verification testing between lots
- Verification data can:
  - Provide assurance that conditions support safe food production
  - Identify trends requiring corrective action
  - Help identify cause of deviations
  - Warn of conditions that require review