Using Alpha Defensin Lateral Flow Test to confirm diagnosis of Periprosthetic Joint Infection

Three classification systems were used to assess the performance of Alpha Defensin Lateral Flow test in diagnosing acute and chronic PJI.

- **Musculoskeletal Infection Society**: 84% Sensitivity, 96% Specificity
- **Infectious Diseases Society of America**: 67% Sensitivity, 96% Specificity
- **European Bone and Joint Infection Society**: 54% Sensitivity, 99% Specificity

The Alpha Defensin Lateral Flow test is...
- **Quick**: Within 10 minutes
- **Highly Specific**: >95%
- **Limited Sensitivity**: Misses low-grade infections

**The Alpha Defensin Lateral Flow test can be used as a confirmatory test for PJI as it is quick and highly specific, but not as a screening test due to its limited sensitivity.**