Impact of a PD-L1 Learning Collaborative: outcomes from a mixed-methods evaluation







Murray, Suzanne¹; Kelly, Melissa²; Lazure, Patrice¹; Kim, Joseph³

¹ AXDEV Group Inc., Brossard, QC, Canada; ² American Society for Clinical Pathology, Chicago, Illinois; ³ Q Synthesis LLC, Newtown, Pennsylvania

BACKGROUND

Often, determining eligibility for immune checkpoint inhibitor therapy requires immunohistochemistry testing of the programmed death ligand-1 (PD-L1). However, performance of in-house PD-L1 testing is often hindered by the complexity of using different assays and platforms.

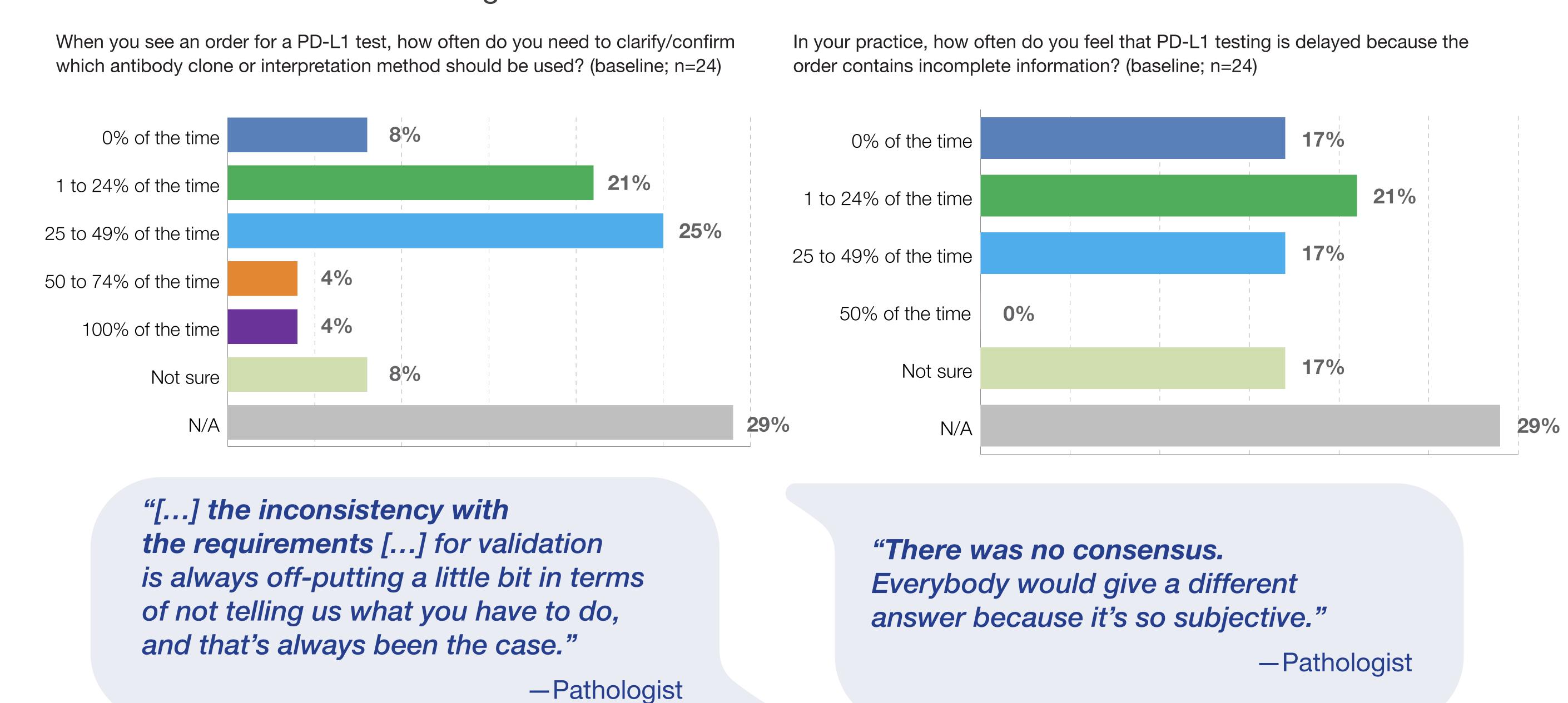
An ASCP PD-L1 Learning Collaborative (LC) was formed to:

- Identify ways to streamline PD-L1 testing
- Encourage members to locally implement changes
- Develop a resource guide for the community

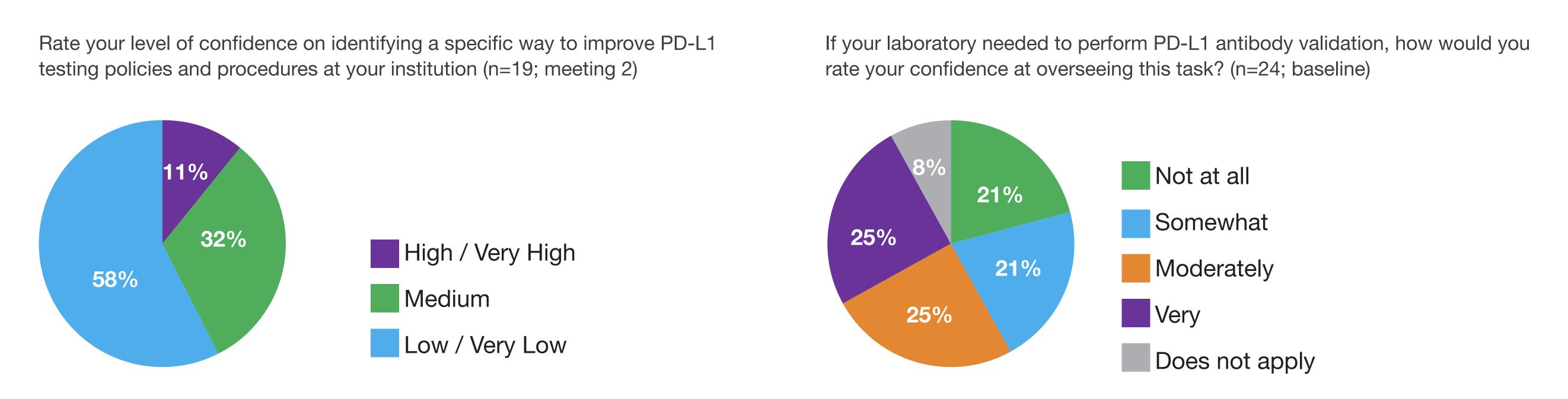
METHODS The PD-L1 Learning collaborative: pathologists and laboratory professionals, taking part in three activities: Four meetings to discuss current literature and practice 2. Three 30-minute for-credit videos, where LC members shared their experiences and summarized outcomes 3. Resource guide for streamlining PD-L1 testing Learning activities 4 LC meetings: 1: n=28 2: n=22 Resource 4: n=18 August 7-month Semi-Structured Interviews LC Meetings Post Survey follow-up Polling questions (2-4 per meeting) Survey Assessment activities Quantitative data was analyzed using descriptive and inferential analysis Qualitative data using a thematic analysis / inductive reasoning approach

RESULTS

Baseline: Testing delays caused by unstandardized PD-L1 testing processes and suboptimal confidence in PD-L1 validation and methodologies



Post-LC: Self-reported increase in knowledge and confidence levels regarding discussion of PD-L1 scientific evidence and best practices.



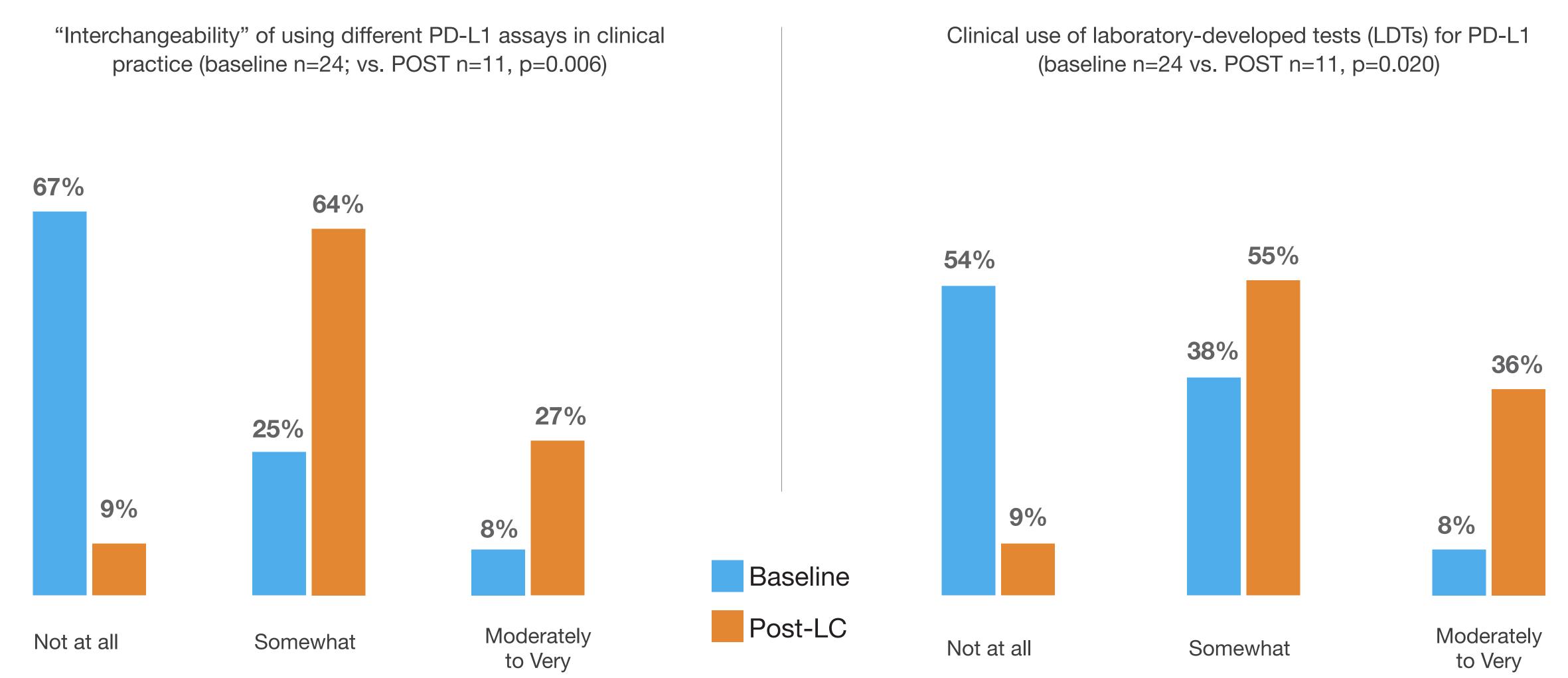
• 50% reported high / very high need for their "institution to improve or streamline PD-L1 testing procedures" (meeting 2, n=18)

7-month follow-up:

59% (n=10) of respondents reported at least one PD-L1-related practice change, and each of the following changes were reported by 29% of participants (n=5):

- Improving protocols for specimen acquisition, handling, or processing
- Improving communication with multidisciplinary care team
- Optimizing biomarker testing workflows

Confidence levels in discussing the scientific evidence regarding:

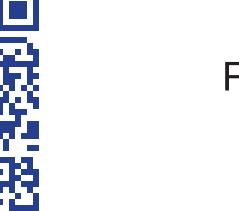


CONCLUSIONS

- After participating in the LC, improvement in PD-L1 testing processes and related practices among a group of pathology professionals was reported
- The group successfully made available three panel videos and a resource guide, in addition to publishing key considerations for developing in-house PD-L1 testing as a poster at ASCP 2023
- Future initiatives should address remaining gaps and develop tumor-specific PD-L1 testing considerations.

Please scan these QR codes for study resources:











ACKNOWLEDGMENTS AND DISCLOSURES

The ASCP PD-L1 Learning Collaborative was supported by an independent educational grant from Merck. The co-authors would like to thank all study participants, as well as Kirk Mason, Deborah Talamonti, and Morgan Peniuta (AXDEV Group) for their research and project management support.