

DAILY ENGLISH READING

12 September 2026 - 30-minute active reading pack

TODAY'S QUESTION

What does CDISC want AI to automate next - and what must remain traceable?

Difficulty: C1 | synthetic SDTM/ADaM | SAP | TFL | traceability

WHY SELECTED

CDISC's 2026 challenge targets synthetic SDTM/ADaM, SAP generation and TFL generation. The strongest signal is the scoring: 40% goes to standards integration, traceability and impact. AI generation alone is not the target; production-ready automation must also be reproducible, validated, reviewable and standards-aligned.

READING ORDER

0-3 min Preview: identify the three 2026 use cases.

3-14 min Main: use cases and the 30/30/40 judging framework.

14-20 min Traceability: protocol and source to statistical result.

20-25 min Technical example: process DAGs, gates and retries.

25-30 min Output: design one production-ready SP AI workflow.

KEY SIGNALS

30% Innovation & Relevance.

30% Technical Quality & Feasibility.

40% Standards Integration, Traceability & Impact.

Human-in-the-loop, validation, documentation and edge cases are explicit criteria.

Use cases span test data, SAPs and TFLs - not only code generation.

SP ARCHITECTURE

authoritative source -> AI generation -> standards metadata -> validation gate

-> lineage / traceability -> human review -> controlled release

Failed deterministic checks should stop or redirect the workflow.

Ambiguous statistical decisions should escalate rather than be guessed.

Every final output should be reproducible from controlled inputs and rules.

KEY VOCABULARY

synthetic data generation	合成数据生成	artificial data for testing and validation
statistical analysis plan	统计分析计划	prespecified analysis strategy
end-to-end traceability	端到端可追溯性	follow result back to source
standards integration	标准整合	embed CDISC rules and metadata
conformance	符合性	follows the required standard
reproducibility	可复现性	same controlled inputs give same result
human-in-the-loop	人在回路	human reviews or escalates AI work
edge case	边界情况	unusual difficult input
lineage graph	谱系图	graph of artifact dependencies
impact analysis	影响分析	find downstream affected artifacts
process DAG	流程有向无环图	ordered dependency graph
validation gate	验证门	checkpoint required to proceed
conditional retry	条件重试	retry triggered by a failed check
objective-to-result traceability	目标到结果可追溯性	link objective endpoint analysis result
production feasibility	生产可行性	realistic for controlled routine use

USEFUL PHRASES

1. automation should preserve the evidence chain
2. traceability is part of the product, not a reporting afterthought
3. generate the artifact and the evidence for the artifact
4. standards integration reduces downstream ambiguity
5. edge cases should be designed into validation
6. human review should focus on judgment, not reconstruction
7. a failed gate should stop or redirect the workflow
8. synthetic data can make automation testable before real study data are available
9. production feasibility requires more than model accuracy
10. the final TFL should remain linked to its analysis definition and source

COMPREHENSION QUESTIONS

1. Why is traceability weighted more heavily than innovation alone?
2. What makes synthetic SDTM/ADaM useful for automation testing?
3. Why should AI-generated SAP content link to structured study concepts?
4. What evidence should accompany an automatically generated TFL?
5. How do process DAGs and validation gates reduce automation risk?

RETELLING PROMPTS

30 sec: name the three CDISC AI use cases.

45 sec: explain the 30/30/40 judging framework.

60 sec: source -> generation -> gate -> traceability -> review -> release.

5-MINUTE SPEAKING / OUTPUT TASK

Minute 1: choose synthetic ADaM, SAP, spec, TFL shell, programming or QC.

Minutes 2-3: define inputs, AI output, metadata, gate, lineage and approval.

Minute 4: add one coding error, one standards error and one ambiguous decision.

Minute 5: state the evidence required before production release.

ONE SENTENCE TO KEEP

The future SP workflow is AI generating inside a standards-driven pipeline where every artifact is validated, traceable, reproducible and reviewable.