



Checklists

Checklists leverage xCures' AI-powered, targeted data-extraction models and semantic record processing to provide configurable, validated clinical reviews of medical records.

Each xCures Checklist is designed to answer defined clinical questions, such as initial diagnosis date, histology, TNM stage, or other required data elements. The system automatically identifies the relevant documents and specific sections within them, then returns structured clinical results, typically within under a minute.

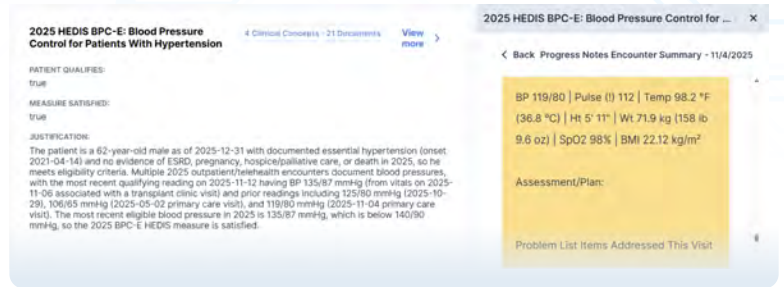
Review logic is tailored to the specific clinical properties being evaluated and configured to meet each client's unique requirements.

The table below highlights representative Checklist topics that xCures has designed and validated across client implementations.

	CATEGORY - CATEGORY OBJECTIVE	T.U.P.*
Oncology & Genomics	Solid Tumor Staging - Defines tumor burden and anatomical spread.	110
	Hematopathologic Results - Quantifies disease burden in blood and marrow.	45
	Genomic & Biomarker Data - Identifies molecular drivers for therapy selection.	207
	Pathology Results - Extracts verified tissue-level diagnostic data.	72
	Medical Necessity Narratives - Surfaces the "Physician Voice" in clinical care.	17
Physiological Risk	Cardiovascular Status - Assesses heart function and ischemic risk.	73
	Respiratory Reserve - Evaluates ventilation and oxygenation stability.	23
	Metabolic & Renal Profiles - Monitors chronic systemic and filtration health.	64
	Anesthesia & Airway History - Identifies prior complications for airway planning.	5
	Neurological & Stroke History - Tracks central nervous system stability and risk.	13
Functional Status & Social Determinants	Chronic Disease Severity - Grades the symptomatic impact of comorbidities.	319
	Mobility & ADLs - Measures physical independence and assistance needs.	4
	Cognitive & Mental Status - Evaluates decision-making and cognitive safety.	11
	Sensory & Communication - Identifies barriers to patient interaction.	7
	SDOH & Medical Risks - Maps social barriers affecting health outcomes.	44
Value-based Care & HEDIS	HEDIS Screening Measures - Confirms adherence to age-based cancer screens.	16
	HEDIS Management Measures - Measures management of hypertension and diabetes.	12
	Transitions of Care (TRC) - Monitors safety during post-hospitalization moves.	81
	High-Acuity Risk Screening - Flags upcoming high-cost clinical interventions.	28
	Immunization Status - Tracks 2026 HEDIS adult vaccination compliance.	4
Women's Health & Genetic Screening	Hereditary Cancer Risk - Identifies candidates for high-penetrance gene testing.	33
	BRCA & Lynch Testing - Documents germline and somatic genetic risk factors.	15
	Carrier & Founder Testing - Evaluates reproductive risks for recessive conditions.	8
	Reproductive & Gyn History - Tracks physiological milestones and reproductive context.	48
	Genetic Counseling Status - Ensures informed consent and guidance prerequisites.	5

*Total Unique Properties

Checklist results include structured JSON outputs, direct document references, and concise evidence summaries. Items are customizable by client, project, or specialty. Every output is discrete, workflow-ready, and fully source-linked for rapid validation and audit, and accessible in the xCures UI or via a dedicated API endpoint.



Checklists Validation

Validation and trustable reproducibility is central to the xCures Platform, and Checklists follow a rigorous validation process to ensure optimal performance. This includes:

- Randomized patient sampling + structured extraction:** Checklists are applied to sampled records, producing structured outputs with document provenance and justifications.
- Dual clinical review for accuracy:** Clinicians verify cited evidence (TP/FP) and independently search the full record to detect missed or conflicting evidence (FN/TN), ensuring patient-level clinical correctness.
- Systematic error capture:** Edge cases and attribution errors are logged to refine semantic search, prompt logic, and document prioritization.
- Iterative validation to clinical thresholds:** Checklists undergo repeated optimization and testing until achieving $\geq 95\%$ precision (PPV) and $\geq 95\%$ recall (sensitivity).
- Transparent performance reporting:** Standardized “Checklist report cards” summarize Accuracy, PPV, Recall, and F1 at property and checklist levels.
- Ongoing post-deployment monitoring:** Continuous QC and random clinical re-review detect drift and maintain high real-world performance.

Checklist Features

Customizable	Queries any element within structured data or free text of a document
Intelligent search	Relevant documents are automatically identified by semantic content
Time relevancy	Enforceable document date limit (last 6 months, e.g.)
Document selection	Limit to only specific documents (oncology notes, cardiology visits, e.g.)
Behavior	Q&A, Verbatim extraction, Inference, Reasoning, Summarization
Provenance	Links to source documents
Justification	Natural language summary of evidence and document types referenced
Validation	Extraction is optimized and validated on a patient level
Run Cadence	Can be run at any time by the client
Client Data Access	Dedicated tab in UI and API



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