

Checklist for ASVCP Quality Assurance Guideline Section 2, Total Quality Management System (TQMS) (v.3, 2019) [note section 1 is an introduction and does not have a checklist]

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
2.1 Quality Goals for accuracy/effectiveness of lab function that will meet the requirements of users, are defined (pre-determined prior to test evaluation) for the preanalytical, analytical, and postanalytical phases. Goals are evaluated and refined on a pre-determined schedule.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.2.1 Size dependent, the lab has a dedicated quality manager or management team as a complete or partial job description. This person(s) has outlined duties and appropriate training to successfully execute the lab's Total Quality Management System (TQMS).	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.2.2 There is a written quality policy/manual that specifies a commitment to continuous quality improvement and outlines the tenets of lab organization, lab function, and the TQMS. The document is available to all workers, updated as needed, and incorporated into personnel training.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.2.3 Annual management reviews of the TQMS are scheduled, and results are shared with laboratory personnel. Time frames for implementation and evaluation of any changes are established.	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<p>2.3, Appendix 1 The laboratory has a catalogue of easily-accessible standard operating procedures (SOPs) for all laboratory processes and procedures.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.3, Appendix 1 Laboratory personnel are required to read/sign off on all SOPs pertaining to their job duties, with scheduled document re-review (mandatory upon any SOP update) and formal demonstration of SOP knowledge.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.3 All laboratory SOPs are updated upon any procedure/method/instrumentation changes and otherwise reviewed every 1-2 years for accuracy and completeness.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.4 Routine quality control procedures are established for all instruments/methods (see section 4 for more detailed guidelines). Identified non-conformities initiate corrective/preventive actions, and clients are contacted as necessary if non-conformities have impacted patient results.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.5, 2.6 Periodic internal and external audits/assessments are scheduled, to include enrollment in an external quality assurance (EQA)/proficiency testing (PT) program.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.1, 2.4, 2.6, Tables 1,2 Key quality/performance indicators are established for preanalytical, analytical, and postanalytical phases, with regular calculation of the percentage of errors/non-conformities that are compared against predetermined goals.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.6 Quality improvement suggestion forms are readily available for all personnel.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

<p>2.2, 2.6 Preventive/corrective actions to eliminate/minimize detected sources of error are implemented continually as necessary and evaluated for effectiveness on a determined schedule. Design and implementation of these actions are made by defined personnel.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>2.2.3, 2.6.1 Feedback surveys are provided to lab personnel and users/clients, and results are shared with laboratory staff and evaluated at management reviews.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

Checklist for Checklist for ASVCP Quality Assurance Guideline Section 3, Preanalytical Factors Important in Veterinary Clinical Pathology (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
3.2 If on staff, a veterinary clinical pathologist and/or other specialists is/are available to clients to offer input on appropriate test selection(s).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
3.3 Offsite laboratory clients (i.e. not pertaining to private practice in-clinic labs) are provided with a test submission manual that lists sample requirements, appropriate collection and transport procedures, and expected turnaround-time for results.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.3 Laboratory clients are advised to ideally have monogastric animals fasted overnight (as permissible by clinical status) for routine hematology/biochemistry, with checkboxes to indicate 'Y/N fasted' on the laboratory submission form.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.3 Sample couriers have a means to record and report to the laboratory any incidents during transportation that may affect sample quality or personnel safety. In turn, the laboratory should include this information to the client in the report.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.4 Laboratory clients are advised to label all tubes/slides directly with specimen type and unique patient ID, plus anatomic location for cytology slides.	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<p>3.4, 3.5 Accession forms contain filled out areas for:</p> <ul style="list-style-type: none"> • submitting clinic contacts • date/time of collection • patient ID • complete signalment • sample type/site source • collection method (for urinalysis/cytology) • brief, pertinent history as indicated by sample type (cytology/histopathology/microbiology) • requested test(s) 	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.4 Any handwritten information on the accession form should be neatly legible.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.6 Accession/test information is entered completely into the laboratory information management system (LIS/LIMS).</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.6 Any problem with sample quality is recorded and communicated to offsite clients and appropriate laboratory staff. Testing is not performed on significantly corrupted samples, with repeat submission requested. If testing of a compromised sample is requested by the client after notification, a disclaimer for extremely cautious interpretation is clearly indicated on the report.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.7 Communication between laboratory personnel and clients should be timely and courteous regarding preanalytical factors influencing laboratory test results (e.g., inappropriate test choice for the clinical</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

<p>scenario, incomplete submission forms/container labeling, inappropriate sample type or sample handling, poor sample quality, etc.). Feedback from clients to the laboratory should be encouraged. There is a formal system for discharging and evaluating any necessary corrective actions in response to client feedback.</p>		
<p>3.8, 3.9 The laboratory environment is safe and comfortable, organized for workflow, and compliant with biohazard regulations, to include all necessary safety training, posted notices, and personal protective equipment (PPE). Safety training is documented. Appointment of a health/safety officer is recommended.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.10 Personnel are adequately trained in laboratory SOPs and have ongoing competency evaluations at appropriate intervals for their area(s) of specialization, with documentation. Appointment of a training manager is recommended.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.11 The laboratory information system (LIS) is periodically reevaluated and updated for maximal efficiency. Records are archived for an appropriate time.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<p>3.12 There is an organized protocol for any send-out testing, to include a clear policy for postanalytical responsibilities of each lab.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Checklist for ASVCP Quality Assurance Guideline Section 4, Analytical factors Important in Veterinary Clinical Pathology (v.3, 2019)

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Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
4.2.1 Laboratory water quality electrical power stability, and temperature (to include refrigerator/freezer)/humidity conditions are monitored on a regular schedule.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.2.1 Automated balances, pipettes, microscopes, and centrifuges are cleaned/calibrated annually.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.2.1 An Instrument Performance Log is created and maintained for each instrument, recording routine and special maintenance/repairs and any other corrective actions taken.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.2.2 The laboratory participates in an external quality assessment/proficiency testing program, with results distributed and discussed among laboratory personnel. Inquiry/internal audit is performed if there is an unacceptable deviation from the peer group mean.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.3/4.3.9 Appropriate method validation or method verification/transfer studies are performed prior to adopting a new test procedure and/or bringing a new instrument on-line; the choice between full validation and verification matches the specific laboratory situation.	<input type="checkbox"/> Yes <input type="checkbox"/> No	

4.3.1 A reportable range/linearity study is performed for each species to be assayed, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.2, 4.3.3 Short-term and long-term replication studies are performed to assess assay imprecision/random error, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.4 A comparison of methods study is performed to assess systematic error of the new method compared to the comparison method, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.5 An interference study is performed to assess systematic error caused by potential interfering substances, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.6 A recovery study is performed to assess potential systematic error caused by substances within the sample matrix, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.7 A reference interval study is performed for creation of reference intervals for each species to be assayed, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.3.8 A detection limit study is performed to determine the lowest concentration that can be measured, if recommended/applicable.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.4 Multisite/multi-instrument laboratories should compare test results among various methods, instruments, and/or laboratories to monitor performance and identify deficiencies.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.5 Instrument function checks are performed each day of test use, with identification of possible interferences. Calibration should be	<input type="checkbox"/> Yes <input type="checkbox"/> No	

performed at least every six months and more frequently if indicated.		
4.6 Laboratory personnel have thorough working knowledge of instruments and their use/maintenance and can perform basic troubleshooting/can take appropriate steps with various error messages/flags (see also section 2 for more information on personnel knowledge/training).	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.7, Appendix 1 A routine quality control (QC) plan is in place (see also following detailed items) to monitor method/instrument performance, with rules and policies established for analysis of QC measurement tools (e.g. Levey-Jennings plots).	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.7.2 There is proper storage and handling of QC reagents and calibrators.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.7.1 Purchased quality control materials should have low, normal, and high levels that are medically relevant for veterinary species.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.7.1, 4.7.3, 4.7.4, Appendix 1, Figures 2 and 3, Table 4 Statistical QC rules, number of control levels analyzed, and QC frequency are chosen to ensure a high probability of error detection (recommended $P_{ed} \geq 90\%$), a low probability of false rejection (recommended $P_{fr} \leq 5\%$), and hence a low risk of reporting unreliable final patient results (i.e. results are within quality goals as may be defined by allowable total error/TEa, clinical decision limits, and/or expected biologic variation).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
4.7.1, 4.7.4, Appendices 1 and 2, Tables 2 and 4 Sigma metrics are calculated for each test from TEa, bias, and coefficient of variation (CV) data,	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>in order to aid determination of which tests require more stringent statistical and non-statistical QC.</p>		
<p>4.7.1, 4.7.4, Appendix 1, Figure 3, Table 4 The potential need for multi-level control rules for individual measurands (with lower sigma), as well as the potential need for multistage QC during a run are assessed.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>4.7.1, 4.7.4, Appendix 1, Table 2, Figure 2 Non-statistical QC items are employed as applicable for lower throughput labs and/or for any measurands with low sigma performance.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>4.2.1 Accumulated QC data is systematically reviewed on a determined regular schedule (e.g. Levey Jennings plot analysis), and appropriate corrective actions are taken when there are undesirable trends/results outside of control rule parameters. Patient samples are not run/reported until quality control materials are assayed as back "in control".</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

Checklist for ASVCP Quality Assurance Guideline Section 5, Hematology (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
5.1.1 Blood tube additives are appropriate for the species of interest. Tubes are appropriately filled and mixed. Films are prepared in a timely fashion.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5.1.2 Films and tubes are labeled with 1-2 unique patient IDs and date of collection. Accession forms contain rDVM and clinic info, date of collection, signalment, and relevant history, including appropriate data (please also see checklist for section 3).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5.1.3 Transported whole blood and films are protected from physical damage and extreme temperatures. Films are additionally protected from formalin fumes and condensation. Shipment is expedited to avoid compromising sample integrity.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5.1.4 Whole blood and film integrity are inspected prior to testing, and the submitting entity is informed when the specimen is likely to produce erroneous results and/or when resampling is requested.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5.1.5 Whole blood samples are mixed to insure homogeneity prior to testing.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>5.2.1 Quality control policies are established, followed and documented. Hematologic automated assays, calculated indices, and microscopic findings are included in the hematology quality control (QC) process.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.2.1 Hemocytometer-obtained counts are performed in duplicate as a procedural control. Predefined goals for agreement are established, with documentation of deviations, and policies in place for mitigation.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.2.1 Manual or instrument-obtained results are compared with film-derived estimates.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.2.1 Films submitted for review are accompanied by available instrument-derived data.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.2.2 Instruments are monitored for electronic safety, calibration, maintenance and performance, with appropriate documentation. Instrument manuals are readily available.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.3 Specimens are stored under appropriate conditions for a pre-established period, as determined by specimen stability, laboratory policy, and certification/accreditation requirements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.3 Reports include statements documenting any deviations in sample integrity or testing procedures that may affect the quality of results or interpretation thereof.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

<p><u>5.4 Non-mammalian species:</u></p> <p>5.4.1 Blood smears are made at the time of collection.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.1 Blood sample transport times are appropriate for the species.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.1 Anticoagulant additives and formulations are appropriate for the species.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.2.1 Laboratory personnel are appropriately trained for the species, and training is documented.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.2.1 Reagent preparation for cell-counting diluent includes monitoring quality of reagent grade water and new lot compared with that of previous lot.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.2.1 Equipment (e.g., reusable hemocytometers, weighted hemocytometer cover slips, hand tallies, calibrated pipettes, and differential cell counters) used for hematology procedures are in good working order.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.2.3 External QA/Proficiency testing of technical staff is performed and documented, and results are within acceptable limits.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>5.4.2.5 Documented protocols for cell counts include methods where all cells to be counted are visible in the hemocytometer, e.g. RBCs, WBCs, and/or thrombocytes.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

Checklist for ASVCP Quality Assurance Guideline Section 6, Hemostasis Testing (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
6.1 The laboratory provides written guidance to offsite clients and is prepared to answer questions regarding sample collection and handling.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.1.1 The laboratory either specifies one trisodium citrate concentration or has investigated the effect of trisodium citrate concentration on their analyzer and reagent, and as necessary has generated a separate reference intervals for 3.2% and 3.8% trisodium citrate.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.1.2 Results from blood tubes filled to <90% of the desired fill volume are released with a warning that underfilling can cause false prolongations.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2 Samples should be checked for clots and clotted samples rejected.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.1 For plasma-based assays, citrated plasma is separated from whole blood within 6 hours of collection for PT/aPTT, unless aPTT is being used for monitoring of unfractionated heparin, in which case plasma should be separated within one hour.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.1 Plasma is separated before shipping to a remote laboratory for testing.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

6.1.2.2 Plasma is separated by centrifugation at 1,500 x g for 15 minutes.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.2 Centrifuge conditions, including temperature and use of the centrifuge brake, are consistent for all samples.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.2 Plasma is transferred using a plastic pipette to a plastic, additive-free secondary tube, which is clearly identifiable as containing citrated plasma.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.3 Whenever possible, plasma is analyzed within 1 hour of separation. If this is not achievable, the laboratory may follow storage recommendations established by in-house investigation or the recommendations herein. These allow plasma storage for up to 24 hours at room temperature or 4°C for in-house specimens; storage at 4°C and shipping same-day/overnight on ice for mail-in specimens that will be analyzed within 24 hours of patient collection; or, freezing followed by shipping overnight on ice for mail-in specimens that will not be analyzed within 24 hours of patient collection.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.1.2.3 If frozen specimens are accepted, plasma is thawed for 5 minutes (or until full thaw) in a 37°C water bath before analysis.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.1 If aPTT is used for unfractionated heparin monitoring, the therapeutic range should be established using at least 20 samples from patients receiving unfractionated heparin. If this cannot be achieved, users requesting aPTT are advised that fold changes in aPTT do not	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

necessarily predict achievement of therapeutic targets.		
6.2.1 International Normalized Ratio (INR) is not provided (not validated in veterinary species).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.2 The laboratory has a written policy defining the responses to out-of-range results and samples with interferences, including the triggers for use of confirmatory or alternative methods.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.2 Water baths are regularly checked to ensure the desired temperature is achieved.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.3 Personnel are aware of the potential urgency of coagulation test requests and the requirement to inform clinical staff as soon as possible if a redraw is required.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.3 Personnel can provide information about the extent to which methods have been validated for commonly used therapeutics; likely magnitude of effect of common pre-analytical errors; likely causes of abnormalities; and, can provide recommendations for follow up testing.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.4 For reference instruments, a minimum of 1 level of control material is assayed in each shift during which a coagulation test is requested. Ideally, two levels of control are assayed in every shift.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
6.2.4 If manual (i.e. tilt tube) testing is performed, a minimum of one normal control is assayed at the same time as the patient sample. Control(s) and patient samples are assayed in duplicate, and criteria are defined for the acceptable difference between duplicates.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>6.2.4 If laboratories are reporting assays as a percentage of normal pooled samples, procedures are in place to confirm that new pools generate acceptable results. Stability and handling conditions for pooled plasma are established by in-house experimentation.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>6.2.5 Users are provided with advice, and where feasible, assistance to ensure correct sample collection and handling for outsourced tests.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>6.3 If batched analysis is performed, the timing of analysis is available to users.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>6.3 Wording for results reporting is clearly specified, including reporting of out-of-reportable range results and as applicable, the clear differentiation of patient results from simultaneously assayed control samples.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>6.3 If multiple coagulation instruments are available within one institution, client education and written guidance are available regarding the variability in coagulation results generated by different instrument/reagent combinations.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

Checklist for Guideline Section 7, Crossmatching

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
7.1 Identification information on submission form/orders matches that of sample(s).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.1 Specimens from recipient and donor(s) are clearly labeled with date, species, animal or donor identification, and donor blood type.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.1 History of a prior transfusion date(s) is provided.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.1 Sera and plasma samples are examined for hemolysis upon harvest. Samples hemolyzed beyond accepted limits for the procedure are rejected and documented.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.1 Whole blood and serum/plasma specimens are stored at 1-6°C when not in use.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.2.1 Crossmatching SOP(s) exist and are readily available.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.2.2 Autocontrols and steps to manage or minimize false positive and negative results are included with the crossmatch.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.3 Reports clearly indicate date/time of specimen collection, species, and identification of the animal patient and each donor against which a crossmatch has been performed.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7.3 Reports clearly indicate whether each donor was found compatible or incompatible with the	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

patient, type and strength of incompatibility, with the date/time of completion.		
7.3 Sera/plasma and whole blood or packed red cells are retained for potential follow-up testing.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Checklist for ASVCP Quality Assurance Guideline Section 8, Urinalysis (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
8.1.1 Sample collection, storage and transport recommendations are readily available to offsite clients.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.1 Clients are advised to clearly mark the urine collection method in the designated section of the laboratory submission form.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.1 Urine is collected into new, clean containers and promptly covered securely.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.1, 8.1.2 Urine samples that will be analyzed >30 min. after collection are placed in the refrigerator and protected from UV light.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.1 A direct or sediment smear is made from fresh urine and submitted with the urine sample if urinary tract disease is suspected. The smear is specified as direct or concentrated.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.2 Urine samples for which crystalluria is a clinical concern are examined within 30 minutes of collection.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
8.1.2 Refrigerated urine samples are brought to room temperature before analysis.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>8.1.2 Sediment examination of refrigerated urine samples takes place within 4 hours of sampling.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.1.2 Dipstick examination of refrigerated urine samples takes place within 24 hours of sampling.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.1.3 Urine samples intended for culture are aliquoted before any other urinalysis procedures take place and are stored in the refrigerator or at cool ambient temperatures in plain or serum tubes for a maximum of 24 hours.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.1.3 Urine samples intended for microbiology which cannot be refrigerated or stored at cool ambient temperatures are placed into boric acid tubes and analyzed within 24 hours.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.1, 8.2.3, 8.2.5 Manufacturers' instructions are followed for all equipment. Calibration, maintenance and performance logs are kept (to include refractometer, stainers, centrifuges, dipstick readers, sediment analyzers, and microscopes).</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.2, 8.2.3, 8.2.5 Method validation and routine QC are performed on instruments used in urinalysis. Laboratory personnel are knowledgeable regarding the operation, principle of measurement, and the potential errors associated with these measurements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.4.1 Laboratory personnel have knowledge of preanalytical aspects of urinalysis.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

<p>8.2.4.2 Laboratory personnel are aware of species differences and normal findings for urine appearance, specific gravity, dipstick, and sediment findings.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.4.3 Laboratory personnel have knowledge of the different analytical methodologies employed in urinalysis and common analytical errors for the methods.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.4.4 Laboratory personnel understand when to repeat urinalysis tests or when use a confirmatory method, as detailed in an SOP.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.1 An organoleptic (gross) urine evaluation, consisting of a description of odor, color, and turbidity, should be performed at the start of urinalysis.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.2 Refractometers are calibrated regularly with distilled water.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.3 Dipsticks are within expiry date and are kept in their original containers with the desiccant and with the lid firmly sealed.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.3 Results from the leukocyte, specific gravity, nitrate, and urobilinogen dipstick pads are not reported.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.3 Positive reactions for protein are followed by a UP:C if pre- and post-renal causes of proteinuria have been eliminated.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>8.2.5.5, 8.2.5.6 Urine sediment is consistently evaluated using standardized methods for preparation, staining, and enumeration of elements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

<p>8.2.5.7 A stained, air-dried sample is examined if there is a clinical suspicion of urinary tract infection or neoplasia, or if pyuria, bacteriuria, or atypical cells are seen in the sediment.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
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Checklist for ASVCP Quality Assurance Guideline Section 9, Cytology, Fluid Analysis, and Immunocytochemistry (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
9.1.1, 9.1.1.2 Cytology submission guidelines are provided to offsite laboratory clients (i.e. not pertaining to private practice in-clinic labs), to include optimal sample and fixation technique/transport media for immunocytochemistry (ICC).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.1.1 Submission recommendations include minimizing ultrasound/lubricant gel on skin, lesion surface, and/or on/in the collection instrument.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.1.1, 9.1.1.2 Submission recommendations include packaging/transport of slides in a manner that minimizes temperature and humidity fluctuations.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.1.1 Submission recommendations include adequate protection from formalin fumes (shipping cytol./histol. samples in completely separate packages/mailings and not in different plastic bags within the same box).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.1.1.1 Submission recommendations include providing 1-2 direct smears with any fluid tubes (excepting CSF), labeled as direct on the slide(s).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.1.2 Submission recommendations include directly labeling glass slides with patient ID and	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>site source (avoiding labeled containers with unlabeled slides).</p>		
<p>9.1.2 (see also 3.4, 3,5) Clients are advised re possible sample rejection if cytology accession form is not legible or does not contain the following:</p> <ul style="list-style-type: none"> ● Unambiguous/anatomically correct site source ● Gross description/imaging findings ● Method of collection (e.g. needle v. direct impression v. swab) 	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>9.2.1, 9.2.3, 9.2.6 Manufacturers' instructions are followed for all equipment, and instrument performance and maintenance logs are kept (to include stain, stainers, centrifuges, hemocytometers, and microscopes).</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>9.2.2, 9.2.3 Method validation and routine QC are performed on instruments measuring biochemical analytes in fluid samples. Laboratory personnel are knowledgeable regarding the operation, principle of measurement, and the potential errors associated with these measurements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>9.2.4 Laboratory personnel are trained to applicable portions of fluid analysis such as gross interpretation, cell count generation, protein measurement, slide preparation, and/or staining. Lab personnel make direct smears from fluid with an intact feathered edge.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>9.2.5 Cytology reports are clear and concise, with an explanation of any modifiers regarding interpretive probability, and with comments</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

regarding any recommended course(s) of action as applicable.		
9.2.6 The laboratory participates in internal and external QA programs with blind cytology cases.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.3 Immunocytochemistry stains are verified with positive and negative controls and are verified for repeatability.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.3.2 Immunocytochemistry reagents, antibodies, and strainers are maintained via manufacturers' instructions.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.3.3 Internal and external audits for immunocytochemistry include comparison of methods/kits for the same antigen, review of select cases by several pathologists, and comparison of ICC results with immunohistochemistry, flow cytometry, and/or EQA programs as available.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.4 A second opinion option is available as deemed appropriate by the client or by the pathologist.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9.4 Cytopathologist pursues case follow up (e.g. any ordered histopathology, flow cytometry, PCR, as well as case outcome).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Checklist for ASVCP Quality Assurance Guideline Section 10, Endocrinology and Immunoassays (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
10.1.2.1 Clients are advised that a single hormone measurement is usually insufficient for a clinical endocrinopathy diagnosis.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.1.2.2 Clients are advised to order endocrine tests with consideration to index of suspicion for an endocrinopathy and the presence of any other underlying disease(s); the endocrinology laboratory submission form has a dedicated section(s) for these items (i.e. brief, relevant history).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.1.2.3 Clients are advised that drugs (such as medications and owner-hormone replacement therapy exposure) may impact test results/interpretation; the endocrinology laboratory submission form has a section asking for listing of current/recent treatment(s) (name, dose, frequency, duration) and potential exposure to topical human hormone replacement therapy.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.1.3 The written/electronic laboratory test protocols for clients provide: <ul style="list-style-type: none"> • the test indication(s) (and desired timing, as applicable) • product dose/administration for each dynamic test 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<ul style="list-style-type: none"> • sample requirements (serum v. other, minimal volume, etc.) • number of samples and timing, as applicable • submission modalities (tubes, handling, shipping) 		
<p>10.2.2 The client is informed, upon request, of the specific technique(s) employed for each immunoassay (e.g. competitive versus noncompetitive) and the signal involved (radioactivity, chemiluminescence, fluorescence, or enzymology).</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.2.2 For radioactive assays, all regulations are posted and followed regarding staff training, protective equipment, radioactivity monitoring, and proper waste disposal.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.3 Each immunoassay (IA) used in the laboratory is properly validated in each species for which it is used.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.4 The analytical performance goals, expressed separately for imprecision and bias, or as TEa, should be determined for each endocrine immunoassay.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.5 Special issues related to IA such as prozone/postzone effects, antibody interference, and cross-reactivity should be investigated in case of a discordant result.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.6.1 Each IA is properly calibrated, as needed, based on the assay method and QC results. Calibration materials are properly stored, and daily record of use are maintained for traceability.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<p>10.2.6.2 Quality control materials (QCM) are selected/generated, properly stored, and used daily.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Records are kept for quality control measurements for each IA on a spreadsheet and a Levey-Jennings chart.		
10.2.6.2 A proper quality control strategy (QC rules) and QC Validation are determined and documented for each IA, with criteria for rejection.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.2.6.2 Each failure of QCM for the chosen QC rules is recorded, and corrective and preventive actions are implemented and documented. QCM is re-evaluated following corrective actions before testing of patient specimens.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.2.6.3 External quality assurance (EQA) is ideally performed at a minimum of four times per year, and records of results, as well as any necessary corrective and preventive actions, are kept for a predetermined period of time.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.3.1 Results are communicated to the client in a timely manner, in a clear presentation, with units, reference intervals, and an optional report/interpretation chart.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
10.3.2 Laboratory clients are advised that endocrinology results are interpreted in light of complete case data, potential medication interferences, and knowledge of hormone physiology/pathophysiology.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Checklist for ASVCP Quality Assurance Guideline Section 11, Protein electrophoresis and Electrophoresis-based Immunotyping (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
11.1.1 Submission guidelines are provided to client, to include preferred sample type and handling instructions.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
11.1.1 Submission form is legible and contains the following: <ul style="list-style-type: none"> • Complete signalment & relevant history/indication for electrophoresis testing • Sample type (serum vs. plasma) 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
11.1.1.1 Sample and submission recommendations for cases with cryoglobulinemia are available in writing or by phone.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
11.1.2 Samples are stored appropriately prior to, during, and after testing.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
11.2.1, 11.2.5 Manufacturers' instructions are followed for all equipment; instrument performance and maintenance logs are kept (to include refractometers, biochemistry analyzers, electrophoresis units, stainers, and scanner/detection equipment).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
11.2.2, 11.2.3 Method validation and routine QA/QC are performed on instruments.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>11.2.4 Laboratory personnel are knowledgeable regarding the pre-analytical concerns, species and age differences, principles of method performance and operation, and the potential errors associated with these measurements, including appropriate retest/confirmatory test policies.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>11.2.5, 11.1.3 Non-statistical QA practices occur for immunotyping procedures, including performance of the assay by well-qualified individuals and confirmation of results by a pathologist.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>11.2.5.1.2 Control samples (commercial QCM, assayed pooled normal serum/plasma) are included in each electrophoresis run.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>11.2.5 Employed techniques can be expected to resolve two beta peaks (high resolution electrophoresis).</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>11.3 Pathologist-generated reports are clear, concise, and employ nomenclature consistently.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>11.3 Client reports include appropriate data, including an image of the gel (if gel-based methods are used), electrophoretogram and immunotyping (if performed), any derived quantitative data, and any appropriate comments.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	

Checklist for ASVCP Quality Assurance Guideline Section 12, Postanalytical Factors Important in Veterinary Clinical Pathology (v.3, 2019)

The purpose of these checklists is to facilitate guideline implementation/practical application and may be further detailed in laboratory-specific standard operating procedures (SOPs). The numbers in the first column correspond to the section numbers in the guideline. The N/A option (listed here only for applicable items) should only be employed for items not pertaining to the laboratory, with an explanation in the additional comment box.

Guideline Recommendation	Compliant?	Additional Comment(s) by Auditor
12.1 There is an established procedure (SOPs) for appropriate review of data generated in the laboratory, with particular attention to results from any testing methods which have required recent analytical troubleshooting, implausible results, data drifts, and results with critical clinical significance.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12.2, 12.3 Data and reports are presented in a standard format, with appropriate accessioning and contact information, and with appropriate reference intervals/decision limits/previous patient data.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12.2, 12.3 Critical/life threatening values (once re-run/validated) are communicated to the clinician immediately, and this communication (or any telephone reporting) is recorded in written/electronic format.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12.3 Report formats are designed for each type of test performed and are clearly organized to minimize the possibility of misunderstanding. Reports are archived for a specified time.	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12.3.1 A list of send-out tests and the laboratory to which they are sent should be available to clients upon request.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

<p>12.3.2 Suspect inaccuracies have a comment on the report that clearly states which value(s) may be inaccurate/misleading for interpretation, with explanation.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.3.3 For external clients, reports generated are delivered to the appropriate client in a predefined, timely manner. There is a detection mechanism for report transmission failure.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>12.4 Any interpretive comments attached to lab results are periodically reviewed and updated as needed to reflect any testing or reference interval changes/improvements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A</p>	
<p>12.5 Specimens, slides, data, and reports are stored under appropriate conditions and for an established period defined by biologic stability, laboratory policy and/or certificate/accreditation requirements.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.6 Materials and samples will be disposed of appropriately and safely.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.6 Previous versions of laboratory documents will be eliminated or permanently archived in a way that prevents that prevents in advertent circulation and use of obsolete operational documents.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.7 Laboratory spaces and equipment are clean, organized, and well-maintained, with logs to record cleaning/maintenance activities.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.8 The laboratory shall maintain a complete reagent and supply inventory with approved suppliers.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	
<p>12.2, 12.9, Table 2 For larger labs, key quality indicators for the post-analytical phase are identified and tracked, with number/percentage of</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	

<p>errors/non-conformities evaluated at routine intervals against pre-defined goals. Preventive and corrective actions are taken as appropriate to decrease/minimize errors, with scheduled periodic review to assess their effectiveness. Smaller laboratories may keep an incident log.</p>		
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