



CAP Accreditation Checklists—2017 Edition

The College of American Pathologists (CAP) accreditation checklists contain the CAP accreditation program requirements, developed on more than 50 years of insight and pathology expertise. The following is a complete list of the CAP accreditation checklists:

CHECKLISTS	SUBDISCIPLINES	DESCRIPTION OF CONTENTS
All Common	N/A	<ul style="list-style-type: none"> • Proficiency testing • Procedure manuals • Specimen collection and handling • Quality management • Reporting of results • Reagents • Instruments and equipment • Test method validation/verification • Reference intervals • Individualized quality control plan
Anatomic Pathology	<ul style="list-style-type: none"> • Anatomic Pathology Processing • Autopsy Pathology • Circulating Tumor Cell Analysis • Digital Image Analysis • Flow Cytometry Data Interpretation • Electron Microscopy • Intraoperative Consultation • In Vivo Microscopy • Molecular Anatomic Pathology • Surgical Pathology 	<ul style="list-style-type: none"> • Surgical pathology • Intraoperative consultation • Fine-needle aspiration • Histology • Immunocytochemistry, immunofluorescence microscopy, and predictive markers • In situ hybridization (ISH) • Digital image analysis • Flow Cytometry Data Interpretation • Circulating tumor cell analysis • Autopsy pathology • Electronic microscopy • In vivo and ex vivo microscopy
Biorepository	<ul style="list-style-type: none"> • Biorepository General • Specimen Collection/Procurement • Specimen Distribution and Agreements • Specimen Informatics • Nucleic Acid Extraction • General Specimen Processing • Specimen Storage • Biospecimen processing and quality, including DNA/RNA extraction/ amplification, cell fractionization, cell and tissue culture, and histology • Specialized techniques, such as digital image, tissue microarray, and laser capture microdissection 	<ul style="list-style-type: none"> • Quality management • Biospecimen collection and handling • Information technology systems • Inventory management system • Storage • Source and sponsor facility • Informed consent and institutional review board • Distribution policies and agreements

CHECKLISTS	SUBDISCIPLINES	DESCRIPTION OF CONTENTS
Chemistry and Toxicology	<ul style="list-style-type: none"> • Blood Gases • Chemistry • Special Chemistry • Toxicology 	<ul style="list-style-type: none"> • Automated chemistry procedures • Blood gas analysis • Therapeutic drug monitoring • Toxicology screening and confirmatory testing • Prenatal screening • Cystic fibrosis sweat testing • Hemoglobin separation • Methods, such as TLC, GC, HPLC, MS, RIA, and electrophoresis
Clinical Biochemical Genetics	<ul style="list-style-type: none"> • Clinical Biochemical Genetics • Newborn Screening 	<ul style="list-style-type: none"> • Diagnostic testing for inborn errors of metabolism • Methods , such as enzyme assays, TLC, GC, HPLC, and MS • Newborn screening
Cytogenetics	<ul style="list-style-type: none"> • Conventional Cytogenetics • In Situ Hybridization • Genomic Copy Number Microarray 	<ul style="list-style-type: none"> • Cytogenetic studies for constitutional and neoplastic disorders • In situ hybridization (ISH) • Cytogenomic microarray analysis
Cytopathology	<ul style="list-style-type: none"> • Cytology Processing • Cytology Screening • Gynecologic Cytopathology • Nongynecologic Cytopathology 	<ul style="list-style-type: none"> • Cytology processing and staining • Cytology screening, manual and automated • Gynecologic and nongynecologic cytology (includes FNA)
Director Assessment	N/A	<ul style="list-style-type: none"> • Laboratory director qualifications • Laboratory director responsibilities
Flow Cytometry	<ul style="list-style-type: none"> • Flow Cytometry 	<ul style="list-style-type: none"> • Blood lymphocyte subset enumeration • CD34 stem cell enumeration • Leukemia and lymphoma immunophenotyping • DNA content and cell cycle analysis
Forensic Drug Testing	<ul style="list-style-type: none"> • Drug Testing – Hair • Drug Testing – Oral Fluid • Drug Testing – Urine • Drug Testing – Urine Screen Only • Drug Testing – Whole Blood 	<ul style="list-style-type: none"> • Nonmedical testing drug testing • Screening and confirmatory testing for different specimen types • Specimen handling and chain of custody • Certification/inspection of results • Methods, such as immunoassays, LC, GC, and MS

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Hematology and Coagulation	<ul style="list-style-type: none"> • Body Fluid Analysis • Coagulation • Hematology 	<ul style="list-style-type: none"> • CBC and differentials, automated and manual • Reticulocytes, automated and manual • Bone marrow preparations • Abnormal hemoglobin detection • Blood film examination for malaria and other parasites • Body fluid cell counts (automated and manual) and differentials • Semen analysis • Routine coagulation assays • Specialized coagulation assays, including factor assays, mixing studies, D-dimer, and platelet function assays
Histocompatibility	<ul style="list-style-type: none"> • Clinical Transplantation Support • HLA Cellular Functional Tests • HLA Flow Cytometry • HLA Molecular • HLA Serology • HLA Solid Phase Assays 	<ul style="list-style-type: none"> • HLA testing by serologic, molecular, flow cytometry, ELISA, and solid phase methods • Class I and II antigen typing • HLA antibody screening, identification, and crossmatching • DNA typing, including generic, high resolution, and DNA sequence based typing • Donor-recipient histocompatibility, including renal, stem cell, and nonrenal transplants • Stem cell engraftment monitoring
Immunology	<ul style="list-style-type: none"> • Immunology 	<ul style="list-style-type: none"> • General immunology assays, manual and automated • Immune system profiles • Microbial antigen/antibody testing • ABO/Rh and antibody screening (nontransfusion related) • Syphilis serology • Western blot
Laboratory General	N/A	<ul style="list-style-type: none"> • Quality management • Specimen collection • Chain-of-custody specimen collection and handling • Direct-to-consumer testing • Result reporting • Quality of water • Laboratory computer services • Telepathology and remote data assessment • Whole slide imaging • Personnel • Physical facilities • Laboratory safety • California laboratory licensure requirements

CHECKLISTS	SUBDISCIPLINES	DESCRIPTION OF CONTENTS
Limited Service	<ul style="list-style-type: none"> • Body Fluid Analysis • Coagulation • Hematology • Blood Gas Analysis • Chemistry • Special Chemistry • Toxicology • Bacteriology • Parasitology • Mycology • Virology • Urinalysis • Immunology 	<p>Contains a limited subset of requirements from the checklists, including:</p> <ul style="list-style-type: none"> • Automated and manual hematology testing, including CBC, reticulocytes, and differentials • Routine coagulation assays • Body fluid analysis, including semen analysis • Automated general chemistry • Blood gas analysis • Therapeutic drug monitoring • Screening for drugs of abuse • Urinalysis dipstick and microscopy, manual and automated methods • Microbiology specimen setup, direct specimen examination, stains, and antigen typing for various subdisciplines • General immunology assays, including immune system profiles and microbial antigen/antibody testing, nontransfusion-related immunohematology testing, and syphilis serology
Microbiology	<ul style="list-style-type: none"> • Bacteriology • Molecular Microbiology • Mycobacteriology • Mycology • Parasitology • Virology 	<ul style="list-style-type: none"> • Culture setup, staining, antigen typing, screening, identification, and susceptibility testing for bacteriology, mycology, mycobacteriology, and virology • Parasitology, including stool for ova and parasites and blood film examination for malaria and other parasites • Molecular microbiology, including FDA-cleared/-approved method, modified methods, and laboratory-developed methods • Microbial identification, using methods such as MALDI-TOF MS, GC, HPLC, target and signal amplification, and sequencing
Molecular Pathology	<ul style="list-style-type: none"> • Molecular Pathology • Next-Generation Sequencing 	<ul style="list-style-type: none"> • Clinical molecular genetics testing, including oncology, hematology, inherited disease, pharmacogenomics, HLA typing, forensics, and parentage applications • Molecular assay validation • Methods, such as electrophoresis, PCR, arrays, FISH, and ISH, and sequencing • Next-generation sequencing, including noninvasive screening of maternal plasma to detect fetal aneuploidy • Stem cell engraftment monitoring

CHECKLISTS	SUBDISCIPLINES	DESCRIPTION OF CONTENTS
Point-of-Care Testing (POCT)	<ul style="list-style-type: none"> • POCT – Nonwaived • POCT – Provider Performed Microscopy and Limited Waived Testing • POCT – Waived 	<ul style="list-style-type: none"> • Tests performed at or near the patient bedside (nondedicated space) • Kit tests or hand-carried instruments (or otherwise transported to the patient location) • Waived and moderate-complexity testing • POCT blood gas analysis • D-dimer studies • Provider-performed microscopy
Reproductive Laboratory	<ul style="list-style-type: none"> • Andrology • Embryology 	<ul style="list-style-type: none"> • Complete semen analysis, automated and manual methods • Biochemical testing • Antisperm antibody testing • Sperm processing for therapeutic insemination • Embryology procedures • Embryo and gamete cryopreservation • Reproductive tissue programs
Transfusion Medicine	<ul style="list-style-type: none"> • Donor Services • Hematopoietic Progenitor Cell Services • Immunohematology • Tissue Storage and Issue • Transfusion Services 	<ul style="list-style-type: none"> • Immunohematology testing, manual and automated • Compatibility testing, including computer crossmatches • Perinatal testing • Transfusion procedures and adverse reactions • Therapeutic phlebotomy • Donor and therapeutic apheresis • Component preparation, storage, and modification • Hematopoietic progenitor cells • Tissue storage and issue • Donor selection, collection, and testing
Urinalysis	<ul style="list-style-type: none"> • Urinalysis 	<ul style="list-style-type: none"> • Urinalysis dipstick, automated and manual methods • Manual urine microscopy • Automated microscopy systems