What's New for 2020



ANDROLOGY



SPMT432 - Sperm Motility

Sperm motility is one of the essential procedures an Andrology laboratory performs in order to assess male infertility, alongside sperm count and sperm morphology. To enhance Oneworld Accuracy's current Andrology program offerings, we have created a program for assessment of sperm motility. SPMT432 will be a virtual program, in which no physical samples will be shipped and online videos of sperm as shown under phase-contrast microscopy will be provided on OASYS. Participants would need to determine the percentage of sperm under each motility category.

For programs regarding sperm count, sperm viability, as well as sperm morphology, please see SPSC432 (Sperm Screen and Count), and SPVM432 (Sperm Viability and Morphology).

Analytes	Sperm Motility (Progressive, Non-progressive, Immotile)
Format	3 test events x 2 samples
Sample Type	Online video
Compatibility	No known compatibility issues with any method or analyzer



BACTERIOLOGY



CRES435 – Carbapenem Resistant Enterobacteriaceae

Infections caused by carbapenem-resistant isolates are of great public health importance as they are associated with mortality rates upwards of 50%, greatly due to the lack of treatment alternatives for these isolates. Resistance to the carbapenems is complex and difficult to detect. Oneworld Accuracy has created a Carbapenem Resistant Enterobacteriaceae screening program for culture and/or molecular methods.

Analytes	Carbapenem Resistant Enterobacteriaceae
Format	3 test events x 5 samples
Sample Type	Swab
Compatibility	No known compatibility issues with any method or analyzer

STRB435 – Group B Streptococcus

Group B Streptococcus (Streptococcus agalactiae) is a common bacterium often carried in the intestines or lower genital tract. It is usually harmless in adults, but in newborns, it can cause a serious illness known as Group B Strep disease. Oneworld Accuracy has created a Group B Streptococcus screening program for culture and/or molecular methods.

Analytes	Group B Streptococcus
Format	3 test events x 5 samples
Sample Type	Swab
Compatibility	No known compatibility issues with any method or analyzer



CLINICAL NUCLEIC ACID TESTING



HCVQ435 - HCV RNA Qualitative & Viral Load

In the past, HCV viral load and HCV qualitative assays were designed separately to reflect the intended use of each. Improvements to both types of assays by manufacturers have meant that a single test kit can now be used for both qualitative and viral load measurements.

As a result, NRL (Science Architect of Clinical Nucleic Acid programs) have chosen to combine the HCV viral load and HCV qualitative programs into a single program (HCVQ435). This will prevent confusion around how to submit data for EQA (such as which program data should be submitted for).

When ordering for the 2020 calendar year, please consider volume requirements for your assays and workflows as you may need to purchase two panels to ensure appropriate testing.

Participants that use separate assays for HCV viral load and qualitative determinations will need to purchase two panels per test event for sample analysis.

Analytes	HCV RNA Viral Load and HCV RNA Qualitative
Format	3 test events x 5 samples
Sample Type	Frozen human plasma
Compatibility	No known compatibility issues with any method or analyzer



DIAGNOSTIC IMMUNOLOGY



ALFO433/443 - Inhalant and Food Allergy

Besides a skin allergy or skin prick test, testing for allergen-specific IgE antibodies in serum is another common way to determine the cause of allergic reactions. To better serve Immunology laboratories that test for both inhalant and food allergens, Oneworld Accuracy is offering ALFO433/443 that includes both types of allergens. Participants in ALLY433/443 and FOOD433/443 in 2019 will be renewed to ALFO433/443 in 2020. ALFO will be a quantitative program in which participants will report the concentration of the specified allergen in the sample.

Analytes	Inhalant and Food Allergens
Format	3 test events x 3 samples (433 format); 4 test events x 3 samples (443 format)
Sample Type	Human Serum
Compatibility	No known compatibility issues with any method or analyzer



HEMATOLOGY



BFLM432 - Body Fluids Differential

Microscopic examination of body fluids gives valuable information to clinicians regarding various health conditions such as infection, inflammation, or even cancer. To enhance Oneworld Accuracy's current program offerings on body fluids, we have created a program for identification of common cells in body fluids, as well as performance of a nucleated cell differential. Types of fluids offered include pleural, synovial, peritoneal, and cerebrospinal. BFLM432 will be a virtual program, in which no physical samples will be shipped, and online slide scans of Wright-Giemsa stained, cytospin-prepared slides will be provided on OASYS.

Please note that this program does offer the Report Only subscription option, which could be used for competency assessment of staff.

For programs concerning cell counts in body fluids, please see BFLA432 (Body Fluids for Automated Instruments), or BFLD432 (Body Fluids).

Analytes	Cell Identification, Nucleated Cell Differential in body fluids
Format	3 test events x 2 samples
Sample Type	Virtual slide
Compatibility	No known compatibility issues with any method or analyzer

MYCOLOGY



MYCC435 - Mold and Yeast Culture

Some fungal infections have a long treatment period, thus correct diagnosis early on plays an important role in patient compliance to treatment protocols and elimination of the pathogen. MYCC435 is a new program that is replacing both MOLC (Mold/Yeast Culture) and YEAC (Yeast culture) programs in 2020, as Oneworld Accuracy realizes more and more laboratories are now capable to test for both mold and yeast. Participants currently enrolled in either of MOLC and YEAC will be renewed to MYCC in 2020. The new program will challenge participants to grow, differentiate and identify the pathogenic species of mold and yeast.

Analytes	Pathogen identification, Growth, Colony Morphology and Microscopic Observation
Format	3 test events x 5 samples
Sample Type	KWIK-STIK™ – lyophilized pellet of microorganism
Compatibility	No known compatibility issues with any culture-based method. Not validated with molecular methods

PARASITOLOGY



MAAG432 - Malaria Antigen

Malaria infection is one of the world's most prevalent public health concerns and according to WHO statistics, an estimated 3.4 billion people around the world remain at risk of being infected with malaria. For diagnosis, besides microscopy methods, rapid test kits (RDT) are frequently utilized as point-of-care tests to screen for malaria infections in blood. Oneworld Accuracy has created a Malaria Antigen program to assess the performance of Malaria RDTs.

Analytes	Plasmodium falciparum Detection, Pan-Plasmodium Detection
Format	3 test events x 2 samples
Sample Type	Simulated blood
Compatibility	No known compatibility issues with any method or analyzer

TVAG435 – Trichomonas vaginalis

Detection of *Trichomonas vaginalis* infection may be accomplished by a variety of techniques, ranging from clinical diagnosis to laboratory-based testing. The most commonly used diagnostic test is wet preparation microscopy. However, wet preparation microscopy is only 40 to 60% sensitive, even among symptomatic women, and the proportion of infections that exhibit no symptoms ranges from 40 to 80%. Oneworld Accuracy has created a program for the detection of Trichomonas vaginalis by any detection method.

Analytes	Trichomonas vaginalis
Format	3 test events x 5 samples
Sample Type	Simulated vaginal swab
Compatibility	No known compatibility issues with any method or analyzer