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Over the past 20 years, there has been a constant shift towards decentralization of clinical laboratory trials. With recent advances in speed and accuracy point of view trials, it is now possible to bring molecular-infectious disease testing closer to the patient. This web inar explores the benefits of molecular point-of-treatment testing as a means of improving patient outcomes and quality of care. Testing methods are now available, with a focus on the importance of laboratory testing in the performance-driven health era. When implementing rapid MRSA surveillance testing using the GeneXpert® system, there were 138 days of patient care saved and 230 more hospitalizations, generating an additional income of \$1,150,000 during the 2007 - 2008 period. - Denise Uettwiller-Geiger, Ph.D., DLM (ASCP) Director of Laboratory Services and Clinical Trials John T. Mater Hospital Memorial We can't think of better words than the game changes. Improving patient outcomes is the main goal of any diagnostic system. But our Family of GeneXpert systems® have set a new standard for workflow flexibility, 24/7 precision testing and user-friendly design that comes in a wonderfully beautiful and compact package. But we did more than just repackage the good thing - we improved the fit, shape and function of the most popular molecular diagnostic platform on the market. GeneXpert System technology is the cornerstone of our unique approach to a suite of molecular diagnostic products that allows us to offer a complete test menu on a single, fully scalable, consolidated workstation. GeneXpert is available in one, two, four, 16, 48 or 80 module configurations. They all have our proven GeneXpert module in their analytical heart, and use the same patented cartridge technology for each Xpert test® test. Xpert CE-IVD MenuGeneXpert System BrochureCepheid SolutionsAdding Institutional Value with GeneXpertCepheid - Our vision of a better way How can I place an order? What is geneXpert®? GeneXpert Dx automates and integrates sample preparation, nucleic acid amplification, and target sequence detection in simple or complex samples using a real-time polymerase chain reaction (PCR). The system is suitable for diagnostic and in vitro research applications that require practical processing of patient samples (samples) and provides both generalized and detailed test results in table and graphic formats. GeneXpert can only be used with a GeneXpert cartridge. What dyes can be used in GeneXpert DX? GeneXpert (Diagnostic System) is calibrated with FAM, Fluor532, Texas Red, and Alexa Fluor647.What analyses can I run on the GeneXpert DX system? GeneXpert® Dx can produce a number of analyses developed by Cepheid. Please refer to our product section Am I plugging in another scanner or changing configuration? No, we can only support the components that come with the system. Do not replace or reconfigure any of the components. Using unapproved components can invalidate results, result in data loss, or damage other components of the system. Click on data management/archive test and click on the test (s) you want to back up. Click the Archive and follow the default. Don't use a Yahoo or MAC account when sending an archive. In addition, some filters may remove the .gxx extension. If that happens, change it to anything other than .txt. How many GX tools can I connect to a computer system? The computer can support a 1 GX tool. However, we have the Ethernet switch (Cepheid part number 800-0038) to allow up to 4 GX tools to work with the computer system. Will this allow up to 16 samples to be launched on GeneXpert System.Is GeneXpert®Dx system licensed to perform PCR? With the purchase of the thermal cycle in real time are the licenses to perform the patented polymerase chain reaction process in real time on GeneXpert® in accordance with the European patent Applera No. EP 0 872 562, the Japanese patent No. JP 3136129 and patents for all areas, including diagnostics in vitro, excluding diagnostics and HIV monitoring. What dyes can be used in the GeneXpert biothreat system? GeneXpert (Biothreat System) is calibrated using FAM, VIC, DRox and LIZDisposable cartridges, a single GeneXpert Dx cartridge contains samples and reagents that you want to process in the GeneXpert Dx system. Each cartridge consists of the following components: camera-holding processing samples, reagents, processed sample, and waste solutions. One camera is marked as an air chamber for equilibrium pressure inside the cartridge. Valve body-Rotates and allows the liquid to move into a variety of cartridge cameras and reaction tubes. In the valve case, the sample is isolated, PCR inhibitors are removed and samples are ultrasonically lysed (if applicable). After processing the sample, it mixes with PCR reagents and moves to an integrated reaction tube. The tube-Enables reaction of a rapid thermal cycle and optical arousal and detection of the contents of the tube. The reaction tube is automatically inserted into the I-CORE module after the cartridge is loaded into the device. GeneXpert cartridges do not come with Cepheid. Contact Cepheid Customer Service to order analysis of specific cartridges: 1-888-838-3222 Option 1 Please contact the website for more information about GeneXpert technology®. What symbols are supported by a 2D scanner? Codes 39 and 128 are supported. Page 2 GeneXpert Systems 处方药物 Dx System Drug Inquiry Assistant Overview Detailed Book Drug Experience Medication Consulting Drug Comparison Related Articles Drug Pictures National Pharmacies Nationwide Pharmacies. Drug Name: Fully Automated Medical System PCR Analysis System (Product Name: GeneXpert) English Name: GeneXpert Dx System

Chinese Pinyin: Cuan Sidong Yn PCRFeXijiTong (Shan Ping Min: GeneXpert) PCR-analyzer, where GeneXpert I has 1 module, GeneXpert IV has 1 and 4 modules, geneXpert XVI has 4, 8, 12, 16 modules, respectively. In the body qualitative or quantitative analysis of selective nucleic acids. Specifications GeneXpert I, GeneXpert IV, GeneXpert XVI (Approval No.) National Food and Drug Administration (In) No. 340065S 1 2 3 3 4 5 6 7 8 9 10 11 12 13 1 4 15 16 17 18 1 9 20 21 21 23 24 Table Contents 25 With more than 20,000 installed systems worldwide, geneXpert system is the platform of molecular testing of choice for most laboratory specialists. See how it helps doctors around the world make a more positive impact. Founded in California in March 1996, cepheid (Chinese) was created to address the pain points of molecular diagnostics using conventional PCR analyzers: complex operating processes that require technical staff to operate, testing processes that are prone to contamination, resulting in failed tests, and false positives in test results. Currently, Cepheid has developed a range of GeneXpert molecular diagnostic kits and test tools dedicated to the kit for fully automatic analysis, with its strong technical strength, Cepheid has become a world leader in the molecular diagnostics industry, GeneXpert has more than 11,000 installed units worldwide, in the United States Hospital Molecular Diagnostics similar equipment, GeneXpert installed the highest proportion of almost 25%. Due to the company's forward-looking growth potential, Danaher announced plans on September 6, 2016 to acquire Cepheid for \$4 billion. Figure 1.1 GeneXpert's cumulative total installed equipment chart worldwide and the total number of sales of Xpert MTb/RIF kits. The purpose of Cepheid product development is to make any molecular diagnosis of any patient's sample at any time, and its GeneXpert product has been developed in accordance with this philosophy. In May 2000, the company launched the first generation Smart Cycler verification system, which was developed with the beginning of the creation of fully automatic molecular diagnostic standards, later developed by geneXpert tester is in this rigorous process of development and standards for continuous replacement. Figure 1.2 GeneXpert Molecular Test Kit Example GeneXpert test chip benefits in addition to accurate results, quick testing, easy to use, but also has: 1, high degree of integration: a simple set of tests can be a sample preparation, nucleic acid amplification, quantitative testing and other molecular stages of the operation integrated into the chip to complete. 2, the scope of testing is comprehensive: the company has developed a number of different sets of pathogen testing, can test various environmental and human tissue samples, and samples can be from blood, urine, sputum or other sources. 3, the testing process is convenient and fast: according to various testing projects, the entire testing process can be completed in about 60 minutes, some projects can be completed in 30 minutes. And the results from the detection are very accurate. 4. Flexible Tool: Because geneXpert test devices are modular in design, users can choose different tools depending on their detection volume, from at least one detection to 80 test boxes simultaneously detected tools can be selected. 5, the testing process is very safe: the kit is one time of use, reduce the outflow of blood samples of patients and other samples leading to infection, while the safety of the equipment is high, the testing kit does not break and pollute the environment. Figure 1.4 GeneXpert test device to identify the benefits of GeneXpert pathogens has been listed on more than 30 types of complete products, can be tested as follows: B streptococcus, enterovirus, leukemia, methicillin-resistant Staphylococcus aureus, drug-resistant mycobacteria, chronic genes for the synthesis of granulocytic leukemia, hepatitis C virus, breast cancer, melanoma, anthrax, plague, hare disease and other projects, the next chart will be the current draft test divided into four parts, respectively: detection of health association, detection of acute infectious diseases, detection of acute infectious diseases. Figure 1.5 GeneXpert type of test kit and introduction 1, GeneXpert testing tool introduced by GeneXpert testing system using a separate i-CORE single module design, can be added or reduced detection modules in the test device in order to assemble several kits at the same time to detect the tool, improve detection pass, reduce detection time, especially in a large population, the detection area, the benefits of modular design is more noticeable. Figure 1.6 GeneXpert test device development shows that a separate GeneXpert test device was adopted I-CORE, based on the concept of a single test module, GeneXpert Module, is an integration of the components needed for a single chip test. With the development of the company's technology, Cepheid has constantly integrated several modules into one tool, building systems that can measure multiple chips simultaneously, such as GX-I, GX-II, GX-IV, and platforms that can perform 48 or 80 tests simultaneously, such as the GeneXpert Infinity test platform. JeanXpert. JeanXpert. Part of the Health Association testing kit below to check out the difficult kit Thyrobacter C.difficile enter briefly, Current molecular diagnostic testing methods require personnel testing in detection speed and accuracy of selection, lack of market can not only provide accuracy of detection, but also can conduct rapid testing of GeneXpert's Difficult Thyrobacter kit is one such product that does not require sacrificial test accuracy, being able to detect quickly, and within 45 minutes the kit has very high accuracy, which does not require additional or retesting, and the control methods of the kit are guaranteed. 3, the acute infectious disease testing kit Cepheid company has announced has been on the market for six acute infectious disease testing kits, including some common flu, MTB/RIF, EV virus detection, of which MTB/RIF kit sales are the largest, and kit development relatively early, market share is very high. Figure 1.11 Part of the kit for testing acute infectious diseases in a number of test kits, the MTB/RIF kit can be considered the company's most successful keyboard, the product mainly detects drug-resistant mycobacteria tuberculosis. About 100 years before the product appeared, the common method of diagnosing and combining mycobacteria was to use sputum smear lens lensing, but the method was less sensitive, missed 40%, and the testing process was complex and took too long to meet the need for rapid diagnosis, and the MTB/RIF test kit was a collaboration between Cepheid and the New Jersey Medical and Dental Conference. 4, the company's reproductive health test kit cepheid currently disclosed reproductive health test kit has four: vaginal tricosomal set TV test, terracoid chrysantheptis/gonorrhea Nester-type bacteria CT/NG testing, GBS screening delivery, prenatal GBS LB screening kit, it seems that Cepheid products are not only for pathogen detection, but for pregnant women. The following illustration shows these four even first aid kits for health testing. Figure 1.12 Some kits for reproductive health testing of traditional reproductive health testing methods, such as petri dish tests, take nearly 72 hours, while other nucleic acid tests take at least one hour, while the GeneXpert test kit takes nearly 35-55 minutes to produce accurate results. Figure 1.13 GeneXpert GBS LB test kit benefits over other methods5. tumor/genetic test kit So far, Cepheid website has only published tumor/genetic test kit - A genetic risk test kit that can detect the risk of thrombosis within 30 minutes. Figure 1.14 Genetic test set to detect thrombosis risk releases several photos of GeneXpert test kit below, below is a test kit observed from the side, with a PCR reaction tube protruding from the back. Figure 1.15 GeneXpert Test Kit Side and Back Photo Figure 1.16. 1.16. Cepheid in GeneXpert motorcycle, cool enough ... 7, the future will be listed test kit Cepheid company announced in recent years will be listed test kit, as shown in the next figure, there are currently about 32 kits worldwide, but in 2018 there will be 35 test kits on the market, let's wait and see ... Figure 1.18 Sepheid's product roadmap ----- the following articles, READ ALSO: GeneXpert Microflow Chip Deciphering -- Part 4 Deciphering GeneXpert Micro stream chips - Part III deciphering Of GeneXpert Microflow Microflow - Part 2 of GeneXpert Microflow Micro stream deciphering - Part 1 Deciphering FilmArra's Filmly Microflow Chips Secret - deciphering the micro stream of the first part micro stream - deciphering the micro stream micro stream FilmArray - the third part of the decryption of the micro stream micro stream FilmArray - the fourth part of the micro stream of the FilmArray chip - part of the ----- article was first published on WeChat Public Number : Microflow declassified ----- roadmap of Cepheid product----- below are the . READ ALSO: GeneXpert Microflow Decryption -- Part 4 deciphering GeneXpert micro stream chips - Part III deciphering GeneXpert Microflow microstreams - Part 2 of GeneXpert Microflow Microflow Decryption - Part 1 Deciphering The FilmArra's Microflow Chips The Secret - deciphering the micro stream of the first part micro stream - deciphering the micro stream micro stream FilmArray - the third part of the deciphering of the micro stream micro stream FilmArray - the fourth part of the micro stream of the FilmArray chip - part of the ----- article was first published WeChat Public Number : Microflow declassified -----

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