

The Gregorio Maranon Hospital installed a robot pioneer in Europe than multiply by 10 the preparation of fármacos

The Madrid installed in the Pharmacy Department of the Hospital Universitario Gregorio Maranon Europe's most advanced robot in the preparation of intravenous medications, which increases safety and quality in their preparation and handling, and that will increase tenfold the composition of drugs.

The minister of Health of the Community of Madrid, Juan Jose Guemes, witnessed the demonstration of the robot. With the installation of this device last generation IV Station of the center, project that has involved the Foundation for Biomedical Research of this, it ensures the correct preparation of the drug for administration to the patient.

Guemes appreciated the steps 'cutting edge' given by one of the oldest pharmacy services in Spain, with over 400 years of history. 'Now with the addition of this robot, which is the first of its kind to be installed in Europe. With him is able to increase the safety of processes, improve quality, allowing more efficient use of high cost drugs and high risk,' he added.

Among other functions, this robot has the ability to handle drugs in liquid and reconstituted lyophilized drugs, automatically dispense drugs for each patient from his presentation, make the filling of bags, vials, syringes and elastomeric devices for Ambulatory infusion of drugs.

Also allows automated prioritize the preparation of certain emergency drugs and provides automatic management of waste in an integrated container, preventing external contamination and pollution from drugs.

The head of pharmacy at Gregorio Maranon hospital explained that the robot improves the safety of processes and can cover ten times the number of mixtures, with 40-60 hour preparations, 'resulting in improved safety, quality and efficiency of drugs and in reducing the waiting time in its development'.

The robot, which will start operating at full capacity in five or six weeks, will lead to mixtures of cytotoxic 200,000, half a million sterile. In this sense, the health minister announced that the Pharmacy Service of this hospital can see how much aid to other hospitals in disposing of medications, thereby reducing its high cost and high risk and danger.

The project leader, Ana Arranz, said the robot ensures a sterile environment with ultraviolet lights, with a capacity of 25 vials of one to 100 ml, 50 syringes from one to 60 milliliters and 25 bags of 50 milliliters to one liter.

The user is identified and the end product

The system checks and ensures compliance with the method of preparation of intravenous mixtures, at each stage of the process, highlighting among its security features automatic verification of the correct dosage through an integrated circuit control all heavy intravenous mixture components, identification of the final product with bar codes or radio frequency and identification of users through facial recognition optical, magnetic or combination of username and password.

It also enables the traceability of medicines from prescription to administration to the patient through the proper documentation and complete the entire process, and with greater certainty in the final product in terms of sterility, aseptic, storage and shelf-life through lighting UV systems engineering and air filtration.

As to the effectiveness and efficiency, the robot enables to optimize the rational use of high cost drugs, as it enables better use of the vials. Increases performance of the unit intravenous mixtures centralized pharmacy service.

On the other hand, decreases the time spent on the preparation of medicines in clinical nursing units and decreases the waiting time for patients by simplifying the usual procedures of preparation of drugs.

It also increases the safety of health personnel by reducing the steps in preparation of intravenous mixtures, eliminating physical injuries resulting from repetitive activity, the risk of punctures by needles and the risk of contamination.

Moreover, questions of journalists, the health minister recalled that the wrongful death this summer in the hospital the baby Ryan, son of the first victim of Influenza A in Spain, was not due to a labeling problem or preparation of the substance supplied, but the administration itself, as well as clarified the report on the matter sent to the Ministry of Health.

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