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Agfa provides MSF Logistique with 20 wireless DR Retrofit systems for mobile X-ray to reduce childhood tuberculosis.

High level of MUSICA™ image quality for pediatric chest imaging and low radiation dose for pediatric use were key criteria for selecting Agfa DR.

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- TB-Speed project is a joint effort between Unitaïd and Initiative 5%, targeting high tuberculosis-burden regions.
- 20 wireless DR systems will be provided over 2 years, to upgrade existing analog mobile X-ray systems.
- For several years, Agfa has provided Médecins Sans Frontières (MSF) with CR systems, films and hardcopy printers, in multiple countries.

Agfa announces that it was selected by MSF Logistique to provide 20 direct radiography (DR) systems over a period of two years. The systems will be used to retrofit the existing analog mobile X-ray units used in the TB-Speed project, which is a joint effort of Unitaïd and Initiative 5%. The contract was signed in December 2018 and the implementation of the first eight DR systems started in February 2019. A further 12 DR systems will be implemented in the following 12-18 months.

Innovative diagnostic approach for the detection of childhood tuberculosis

[TB-Speed](#) is a research project that aims to find cost-effective ways to wipe out childhood tuberculosis (TB) in at-risk areas of the world, including Sierra Leone, Ivory Coast, Cameroon, Zambia, Uganda, Mozambique and Cambodia. As proper TB diagnosis evaluation is rarely implemented for children at the district hospital or primary health care level in high TB-burden settings, one of the objectives of the program is to assess new decentralized childhood TB diagnostic approaches at the district health system level.

The innovative diagnostic approach combines screening, chest X-ray interpretation with the Xpert MTB/RIF cartridge-based nucleic acid amplification test, and training of clinicians.

Low dose and fast workflow

The chest X-rays are carried out by mobile X-ray units provided by MSF. Agfa was selected to upgrade these analog units to direct radiography (DR), with high DQE wireless Cesium Iodide (Csl) detectors. Retrofitting the analog units maximizes the existing investments while providing the benefits of DR, including fast, high-quality images and a smooth, speedy workflow.

The high level of image quality for pediatric chest imaging and low radiation dose for pediatric use were key criteria for selecting Agfa DR. The 'gold-standard' MUSICA image processing software enhances the excellent DR image quality. Together with the Csl detectors, it also supports the delivery of the lowest patient radiation dose reasonably achievable: especially important for pediatric patients¹.

The DR units are operated with the MUSICA workstations, which comprise an intuitive imaging workflow engine and quality control tool for radiography efficiency.

High detectability of TB

“We are thrilled to be a part of this important research program, and to extend our relationship with MSF Logistique,” comments Louis Kuitenbrouwer, Vice President Radiology solutions of Agfa. “Over the years, we have been providing MSF with computed radiography (CR) systems, films and hardcopy printers, along with strong training for biomedical engineers in deploying and using the systems. Being selected as partner that will enable the TB-Speed project to benefit from DR advantages is testimony to the real, proven value we have provided, and the trust these organizations place in Agfa solutions and services.”

“The Agfa DR solutions, including the MUSICA image processing, will play an important role in this project, offering a high detectability of TB with high-quality images, especially for pediatric chest curves,” comments Doris A-Hilares of MSF

¹ Testing with board-certified radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) Detectors, when used with MUSICA image processing, can provide dose reductions between 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa HealthCare for more details.

Logistique. “Agfa’s global support, provided by the service network available all over the world, was an important criterion, and Agfa worked with us to make this investment financially possible.”

For an image, click [here](#).

About Agfa

Agfa develops, produces and distributes an extensive range of imaging systems and workflow solutions for the printing industry, the healthcare sector, as well as for specific hi-tech industries such as printed electronics & renewable energy solutions. The headquarters are located in Belgium. The largest production, research and distribution centers are located in Belgium, the United States, Canada, Germany, France, the United Kingdom, Austria, China and Brazil. Agfa is commercially active worldwide through wholly owned sales organizations in more than 40 countries.

About Médecins Sans Frontières Logistique

Médecins Sans Frontières Logistique is one of two purchasing and supply centres for the Médecins Sans Frontières Movement. MSF Logistique is responsible for purchasing medical and non-medical products, packaging, storage, shipping these materials and medicines to the main humanitarian intervention locations, for both MSF and other international NGOs. For more than 30 years, MSF has been supplying a range of products, such as medicines and vaccines, as well as inflatable hospitals, 4x4 and emergency kits.

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