RADIOLOGY WORKFLOW SOLUTIONS

WORKFLOW MANAGEMENT FOR THE CLINICAL RADIOLOGY

RADIOLOGY WORKFLOW MANAGEMENT

OPTIMISED WORKFLOW

MAXIMUM EFFICIENCY
You want rapid, efficient and reliable evaluation ideally embedded in the hospital workflow?

You need an organisational infrastructure which reliably supports your diagnostics management and speeds it up effectively?

You would like to minimise the organisational expense and effort for administration and management accounts to leave as much time as possible for essentials, enabling you to concentrate completely on the diagnostics and therapy for your patients?

medavis uses sophisticated interface technology so that the solutions fit seamlessly into your hospital system landscape. The system’s thorough digitalisation of your radiological workflow creates the basis for smooth communications to your Hospital Information System (HIS) and to your PACS and other systems. All relevant patient data enter the information flow promptly and reliably. In no time at all, you and your colleagues in A&E or Surgery have all the data they need for rapid action.

With the aid of medavis, you can reliably control all radiological processes embracing appointment scheduling, evaluation and even billing. For each area of activity, there are selected predefined functions and yet each workstation can be individually configured and adapted to the personal needs of the user.

Use efficient, cross-site appointment scheduling to improve capacity usage of equipment and at the same time shorten waiting times for patients. Whether you are connecting your modalities directly via the DICOM Modality Worklist or using the latest in speech recognition software for evaluation - medavis workflow solutions save you time in every work step. All resources are used to the best advantage for the efficient medical care of your patients.

medavis.
Your trusted partner for workflow management in radiology.
Perfect workflow management - reliable and effective

Flexible. Modular. Scalable.

For radiology departments of any size.
medavis.
MORE convenience.
MORE efficiency.
MORE safety.
In 1997, after 27 months of development, medavis launched its Radiology Information System, based on years of experience in routine clinical work and using the latest in software technology.

Today, medavis GmbH is regarded as one of the leading system houses for radiology workflow solutions. The number of medavis installations in use at home and abroad continues its steady upward growth. More than 23,000 users in over 450 medical institutions of all sizes already rely on medavis in their daily work - in radiological practices and group practices, hospitals and clinic groups as well as university clinics.

Apart from the conventional radiological workflow, which the medavis RIS models fully with its consistently role-based approach for maximum efficiency, the versatile, web-based communication platform portal4med gives you an unrestricted flow of information.

Its modular, scalable structure ensures that the range of roles available can fully match your needs and can also be extended flexibly afterwards at any time whatsoever. portal4med fits seamlessly into your IT infrastructure and ensures that your information flows smoothly irrespective of location. All portal4med modules - from the referrer portal to telemedicine - have one thing in common: they sustainably increase the efficiency of your radiological workflows irrespective of location.

Sustainability occupies a particularly important role at medavis. Even today, our first medavis users are still among our satisfied customers. Our dynamic products with their enormous range of functions convince everyone who has made the decision to opt for medavis. Not least of the reasons behind this is that they come bundled with top-class project management, a sophisticated training concept and skilled and proven customer service.

A success record like no other.
Perfect integration
From appointment scheduling to billing, medavis RIS reliably controls all your radiological processes. Its sophisticated interface technology ensures smooth interaction with your HIS - embracing the reliable reporting of patient master data, communication of orders and return of diagnostics, neutral or evaluated activities, diagnoses and procedures to the HIS. Perfect PACS integration gives you all the options: Single sign on / sign off, RIS-central image retrieval, image in the diagnosis, diagnosis in PACS and PACS synchronisation, even image preview and demo preparation in medavis RIS.

Efficient appointment scheduling
Appointment planning is absolutely essential for the best possible use of your resources. Efficient appointment planning, cross-site where necessary, is your way to improve the capacity usage of your modalities and increase productivity. A dedicated function key gets you straight to the scheduler, enabling you to create an urgent appointment in seconds. From a HIS order you can generate an examination appointment with just a few mouse clicks. A sophisticated process logic creates maximum transparency: you can see at a glance the current status of an examination. The duration of an examination and waiting times are included in the appointment planner and changes can be identified at any time.

More reliability
In medavis RIS, medical data is documented fully, so that diagnosis-relevant information is available at a glance. By connecting your modalities directly via the DICOM Modality Worklist, the manual input of patient data via the examination device is no longer necessary. This not only saves time but increases reliability because it cuts out a fault source. All work steps are recorded and a special LOGGING functionality also makes it possible to follow up any changes in appointments plus patient data at any time. Maximum reliability is also guaranteed by the thorough and complete data recording and largely automated billing.
Optimum information flow

Thanks to MULTIMEDIA ARCHIVE and DIAGNOSTIC PATIENT CENTER, with medavis RIS you have an innovative HD diagnosis work site, with all the relevant information and previous diagnoses for your patient always available. The data is accessible without needing to interrupt your diagnosis or change applications. You can create your diagnosis as you choose, using professional text processing, digital dictation or deeply embedded speech recognition. As well as rapid, high-quality diagnostics, medavis also provides a means for the direct and reliable reporting of diagnoses to the treating doctors - via HL7 to your HIS or alternatively via e-mail, fax or the web platform portal4med.

Better control

medavis software solutions give you valuable management data and so improve the productivity, quality and economic efficiency of your radiology department. medavis RIS has more than 450 predefined statistics ready for use. They can be used flexibly to enhance specifically required statistics and can be combined in a personal menu for recurring routine analyses. With the web application cockpit4med you can go one step further: it extracts data from various sources, prepares them to form meaningful statements - in real time and independently of the device used, also via mobile terminal devices. This facilitates rapid analysis and so shortens your response times.
Our holistic approach is not just confined to the range of functions covered by our software. It also applies to our service provision, where completeness, continuity and individual customisation are always central. For our users, we are a partner who delivers innovations and also follows up sustainably and helps with continuous improvement.

The structures of your radiology department are unique, and special workflows have often become accepted practice over many years. In a dialogue with you, we adapt your workflow in every detail and spend a lot of time on your optimisation requests. We also take steps to ensure that your processes run smoothly even during the transition phase. medavis workflow solutions pave the way to increasing the effectiveness and economic efficiency of the radiology department. However, ultimately each individual user decides on a daily basis how to use these options in a consistent manner. This means that the motivation of users is an essential ingredient in the success of your investment. We are well aware of this responsibility. For this reason, we have developed a training concept which is geared to the different focuses of different disciplines. This makes all users ideally equipped right from the start for their day-to-day challenges.

In our training programmes, we show how the specific tasks at each particular workstation can be effectively managed with the aid of the medavis programme functions. We explain the functional
interrelationships within the medavis software, so that key settings and automatic actions can be readily understood. The training methodology is based on brief learning units easy to put into practice, visualisation and practical exercises. To keep you and your users always in the loop, we also offer individual training opportunities on your premises or on the phone as well as our regular workshops on key topics.

As for implementing and integrating our software into third-party systems, maximum transparency is a chief concern for us. We are there with you on the spot when the systems go into live operation and indeed throughout the whole go-live phase work in close cooperation with your technical staff.

Wide-ranging project and system documentation creates additional reliability right from the start.

We deliver all the services that you need - regular system servicing, performance optimisation and early detection of potential fault sources. The administration and maintenance of medavis software is an efficient process with maximum time savings. This is not least because of medavis Agent, a special software distribution tool, which automatically incorporates updates and software extensions. We are happy to advise you at any time on practical ways of extending your systems, for example if new sites are to be included or if organisational changes are expected in your institution.
New opportunities for workflow optimisation

Telemedicine provides new opportunities for optimising your radiological workflows. Thanks to medavis portal4med as a complete web-based portal solution, diagnosis, diagnostics and therapy are no longer confined to the doctor’s consulting room, examination room and opening times. New potentials for efficiency enhancement and quality improvements emerge.

Better patient care

Thanks to the latest advances in technology, skilled diagnosis irrespective of time and place is not only possible today but even helps cut costs. Hospitals can share central night and weekend duties and sites performing few examinations can refer them to central diagnostic facilities. Differences between different sites can be ironed out, opening time restrictions vanish and resources can be used more efficiently. Also, delays and unnecessary journeys for patients can be prevented. The level of care goes up, but costs fall. Everybody wins.

Increased economic efficiency

You can fully model your conventional radiological workflow using medavis RIS. Additionally, medavis portal4med provides you with further options for increasing effectiveness and economic efficiency. For example, you also can expand your workflow solution by using the medavis portal4med TELEMEDICINE module. You can then assign diagnostic orders flexibly irrespective of location - always depending on where and when suitable specialists are available. Thanks to its intuitive user interface, portal4med gives you efficient operating convenience.

Limitless flow of information

Diagnostic orders can be assigned externally subject to quality assurance. Central patient documentation is assured to the same extent as the simple and reliable link to radiological service providers without complex VPN installation. Data is encrypted in the internet via a public key infrastructure and transmitted securely. This enables diagnostics to be made without delay even if no radiologist is locally available. No valuable time is lost and patient treatment can be carried out as rapidly as possible and with

Make more of your resources - today, tomorrow and in the future.
no additional journeys. Patient care is improved. At the same time, the use of portal4med is advantageous from an economic aspect because consistent rationalisation of the processes yields huge savings potentials.

**Seamless integration**

portal4med is compatible with all communications standards in current use in medicine: HL7, DICOM, XML, IHE. The portal can also be integrated into heterogeneous system environments - because portal4med comes with its own communication server - gateway4med. This provides an independent and particularly fast and reliable exchange of data. As networking and the use of different communications standards continue to expand in medicine, there is often a need for a bridging tool that can ‘translate’ messages from one system into another to support the flow of information and make it readily available for use in the receiver system. gateway4med performs this role and acts as the translator between systems which cannot communicate directly with each other. It receives and modifies messages in order to forward them in the required format to the receiver system.

Comprehensive documentation makes information flows understandable and transparent at the same time. In the event of faults, the cause can be traced rapidly. In addition, medavis portal4med uses modern web 2.0 technology and so ensures independence from infrastructure and operating system. No matter how your IT structure develops, portal4med can adapt flexibly to new requirements. Your previous investments are protected - future-proof.

**Future technology as standard.**
Since 1997, medavis has been synonymous with medical IT that goes the extra mile:

- State-of-the-art software technology
- Future-oriented, scalable and upgradable IT processes
- Customised services
- IT experts in radiology process optimisation and network architecture
- High-performance products with depth of functionality
- Long-standing project experience
- Top-class customer service with qualified staff

Medical centres, hospitals, clinic chains and teaching institutions in Germany and abroad – over 450 medical institutions of all sizes already rely on our radiology workflow solutions medavis RIS and portal4med.

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