



MEDINOXX

The Medinoxx Medication Management
For Your Pharmacy

Contents

| | |
|-------------------------------------|----|
| Your Pharmacy – The Centre of Care | 4 |
| The System Components | 6 |
| Supply of Care Homes | 8 |
| Pharmacist Testimonials | 10 |
| Supply of Patients at Home | 12 |
| Supply of Clinics | 13 |
| Our Quality Standards – Your Safety | 14 |
| Become our Partner | 16 |
| For a clean environment | 19 |





We at Medinox are always thinking ahead. The ever-changing challenges in the healthcare market spur us on to ever greater performance. We owe these ideas primarily to our loyal customers, who motivate us through their suggestions to further develop Medinox into one of the best medication management systems on the market.

This is why we would like to take you with us on a journey into the future, not only as our loyal customer, but also as a valued partner.

Securing competition through
Innovation

The owner-managed pharmacy faces constant changes and new challenges in the market. The expanded range of online pharmacies or pouch blister centres with their large catchment areas is changing the pharmaceutical landscape. Would you like to assert yourself in a dynamically growing healthcare market? With the innovative Medinox sealed-cup, we offer you a qualitative system with which you can organize your medication management perfectly and break new ground.

Success through
Expansion

Like a doctor's surgery, a pharmacy fulfils the important task of ensuring safe patient care in both urban and rural areas. The qualified pharmaceutical consultation will continue to take place personally in the pharmacy, and online pharmacies will not replace these important emergency services. With the modular sealed-cup system from Medinox, further market segments can be served and new business segments opened up.

Safety through
Quality

Medinox wants to set the standard in drug supply in the future. For this purpose, a patented sealed-cup system was developed together with pharmacists, care institutions and a team of experts. This system not only demonstrates the latest state of the art technology in this field, but is also up to future challenges. During development, special attention was paid to quality, as confirmed by scientifically certified tests successfully carried out by the Central Laboratory of German Pharmacists (Zentrallaboratorium Deutscher Apotheker e.V.).

Added value through
Variety

An individual medication plan should be adapted to the patient and should not be subject to the restrictions of a limiting medication management system. Full care is the key word. With the Medinox sealed-cup system up to 90% of the drugs available on the market can be dispensed using our sealed-cup system. Liquid drugs included. This makes the system unique and offers you an unattainable unique selling point.

Your Pharmacy – The Centre of Care

Are you interested in using a medication management system or are you already supplying several nursing homes? You do not know which medication management system suits you best or would like to increase the quality of care? The provision of medication should be quick, easy and safe to manage in order to save costs? And you want to act more flexibly and offer a medication management system with which you can guarantee a full supply of solid and liquid drugs in the future. **Medinox is the answer to these questions in patient-specific medication supply.**



Medication - rethought

The Medinoxx sealed-cup system was developed with the aim of offering pharmacies both a high quality and flexible system. Both solid and liquid drugs can be cup-sealed in one tray, thus offering your customers a full supply for the first time. Not only liquids, but also problematic drugs such as moisture-sensitive effervescent tablets or soft gelatine capsules that tend to stick can be cup-sealed. Compared to conventional medication management systems, up to 90% of all required drugs can be packed. The Medi-Cup doubles as a medication cup for taking the medicine. The drugs are sealed safely and hygienically until they are taken, the system continuity is maintained. An important aspect is the time required to process the medication in the pharmacy. Due to the large diameter of the Medi-Cups, they can be filled quickly and even the discarding of a drug can be corrected without tweezers.

When checking the finished trays, the wide cups offer an additional advantage in terms of time: the drugs do not lie on top of each other and can be easily identified, thus enabling a quick final check. Therefore the process of filling and checking is highly efficient and shortens processing times, the costs for placing the medicines in the cups are considerably reduced.

New ways with Medinoxx

Whether you are interested in processing PrEP, cytostatics or liquids, with Medinoxx you can cover all these areas in the future. Or how about dietary supplements, vitamins or ointments?

Automation

For a long time, the automation of the filling process was reserved for pouch systems. Medinoxx now also offers the possibility to automatically fill the Medi-Trays. This combines both system advantages: safety during filling through automation as well as all the advantages of a modern medication management system for dispensing medication. Your staff will be freed up, allowing a rapid increase in the number of customers supplied.

Features and Benefits

| | | | | |
|---|---------------------------|--------------------------------|---|-----------------------------------|
| Sealed-Cups for both solid and liquid drugs | Fast and easy handling | Easy medication changes | Stability successfully tested | GMP-compliant production |
| 1 | 2 | 3 | 4 | 5 |
| Sustainable and environment-friendly | Possibility of automation | Opening up new market segments | Broad range of marketing and service offers | Consultative reference pharmacies |
| 6 | 7 | 8 | 9 | 10 |

The System Components

The Medi-Tray

The Medi-Trays are offered in two sizes, 7x4 and 7x6. The reusable tray is made of high-quality plastic and has a service life of several years. If necessary, the tray can also be equipped with a base plate to clearly enclose the medication plan.

The Medi-Cup

The patented Medi cups are available in two sizes, 10ml and 15ml. Up to 9 different solid medications or liquids up to 15ml can be processed in one cup. The cups are equipped with a hinge for a quick and easy change of medication. They can be opened and closed easily.



Medi-Cup



Medi-Tray

The Sealing Foil

The multi-layer and pre-punched sealing foil can be printed with a standard colour laser printer, which is the fastest and most cost-effective printing method. The imprint on the foil is water and wipe resistant, thus a safe identification possible any time up to ingestion by the patient.

The ID-label for the tray front side

Important information such as name, date of birth, accommodation unit, etc. is placed on the front of the tray by the label so that the trays can be assigned to the user at any time. This ensures clear identification, even if the trays are stored in a medicine cabinet, medicine trolley or other location.



Sealing Unit

The Sealing Unit

Compared to other medication management systems, Medinox only seals the cups with the foil by pressure and temperature, no glue is used. This is a hygienic method of sealing and increases the safety of the cup-sealed medicines. In addition, the maintenance-friendly automatic sealing machine is very compact and fits on any worktable due to its small dimensions. The smooth stainless steel surfaces allow easy cleaning. The automatic sealing machine is offered as a rental or purchase option for a cost-effective adoption of the Medinox system.

The OneClick lock system

Within seconds, all cups snap into the trays with just one click, regardless of the number of rows of cups. This saves an enormous amount of time while at the same time increasing process reliability.

Photo documentation

A camera for photo documentation can be attached to the automatic sealing machine by means of a holder. Pictures can be taken before and after the sealing process as proof of your reliability.

Data security

In order to implement the new GDPR, the front label on the trays can be easily removed without leaving any residue. The cup lids with the relevant patient data can also be easily disposed by shredding.

Supply of **Care Homes**

The supply and delivery of care facilities is often an important component in the overall concept of the pharmacy. This is particularly true if there is the possibility of supplying several facilities in the immediate surroundings. As a result, pharmacies are increasingly interested in home supplies and competition in the market is becoming fiercer.

The increasing number of people in need of nursing care is accompanied by a multimorbid occurrence of disease among those affected, which is therefore a particular challenge for drug therapy safety.

This fact presents care facilities in particular with considerable problems, which are exacerbated by the accompanying shortage of skilled workers.



So far, approximately 35% of all care facilities in Germany are supplied by medication management systems. More and more facilities are looking for meaningful medication management systems due to the increased complexity and the prevailing lack of time and staff.

Easy. **Safe.**

- 1 By managing solid as well as liquid drugs, you enable the care facility to provide almost full care; only the medication on demand must be provided additionally. This means that the dual dispensing system that has prevailed up to now can be changed over and round times can be shortened considerably.
- 2 The Medi cups are filled directly with the corresponding drugs and sealed. Then they are used in the facility as a medicine cup for the resident. This means that there is no need to decant the product into an additional cup, and there is no unhygienic and time-consuming system breakage in the facility.
- 3 Another important requirement is the ability to change medication easily and hygienically without loss of quality. The patented Medi-Cups have a hinge function, allowing medication to be changed at any time.
- 4 The stable trays from Medinox are reusable, significantly reducing the impact on the environment.
- 5 The medicine administration equipment, specially adapted for the Medinox sealed-cup system, can reduce round times in facilities, saving time and money.

The savings potential of conventional medication management systems for solid drugs is well known. A recent study shows that blistering of liquid drugs can also significantly increase time and cost savings. Your lead to success!

Pharmacist Testimonials



engel-apotheke in Giengen

Ute Höynck

“We have been absolutely convinced users of the Medinox Medication Management system from the very beginning. Regarding patient-specific solid and liquid management, it already opens up revolutionary ways for a supply system that guarantees patient safety, hygiene and transparency for both solid and liquid drugs. An essential advantage

for us lies in the variability and adaptability of the system to the needs of the nursing home or the end user. Similarly, the change of medication is simple and pragmatic, without risking a loss in quality.”



Münster Apotheke in Titisee-Neustadt

Dr. rer. nat. Michael Kunkel

“For us, quality aspects are top priority in the management of medication for patients. The Medinox sealed-cup system works with tested and certified materials and with a one-way distribution from the manufacturing pharmacy so to say directly to the patient. This avoids mix-ups as well as hygiene deficits by avoiding the labour-intensive but

common refilling process. Care facilities that attach equal importance to high drug safety and economical medication management - without neglecting the sustainability concept - are approaching us with the desire for the Medinox Medication Management.”



Die Park Apotheke in Bochum

Katja Wiebecke-Nötzel

“The home management and the nursing staff appreciate the quality of the work done by the pharmaceutical staff in our on-site pharmacy. The Medinox system offers the high quality requirements with stable, reusable trays and disposable cups that contribute to flexible solutions for medication changes due to their resealability. In addition, the dispensing of liquids is also possible without leakage. Compared to other medication

management systems, this results in significant time savings for the nursing staff.

Since we started with the predecessor model of Medinox in 2012, we have been able to continuously expand the use of our sealed-cup system for nursing home care and gain further facilities following the conversion to the current Medinox sealed-cup system”.



Vplus Apotheke in Merchweiler

Patrick Kliemann

“Fortunately, I came across the Medinox Medication System in search of a real revolution in the management of medicines. This system combines everything I was looking for. Highest tested quality, adaptation to the needs of the patients, no matter if in the care home, in the clinic or for patients at home. Furthermore, I see an essential key advantage in the option of using sealed cups for dispensing liquids as well, because it is precisely these that can be blistered - usually with narrow therapeutic windows - with a high dose accuracy and quality. In the overall embedding of the Medinox care concept, this leads to an unbeatable advantage for the patient and thus significantly improves compliance. In addition, despite the great status quo, Medinox continues to develop the existing system further and will therefore also be an important strategic partner for me in the future. I looked at almost all medication management systems - including all pouches, cards or other cup-blister systems, including manual, partially or fully automated - none has convinced me more. For me, Medinox is the innovation in the medication management arena”.

Supply of **Patients at Home**

The change in the world's demographic landscape can no longer be ignored. By 2013, the age group of people aged 65 and over already accounted for over 20% of the total population, and all future trends are forecasting further growth. The challenge of ensuring safe drug therapy even at an advanced age can be comprehensively met above all by the Medinox Medication Management system.



Patients at Home

Your customer, let's call her Mrs. Smith, is a very lively but already elderly lady who enjoys her retirement and even more being a grandmother. But the numerous drugs and drops cause more and more trouble for her. Not such an easy task, but with Medinox you can offer her a complete solution for all her drug therapy needs. This complete supply is an indescribable added value for Mrs. Smith and all other patients. An added value that can be felt up to the now carefree and relieved relatives.

Hospital Care

Hospital care is currently facing major challenges worldwide. A shortage of skilled workers, increased documentation requirements, the organisation of a discharge and transitional planning system based on guidelines and new rules on drug therapy safety are making everyday life more difficult. A systematic examination of more than 10,000 patients revealed that every 10th patient had an adverse drug reaction in an emergency. The tasks for the hospital are a big challenge, especially for multimorbid patients, an 80-year-old person often has up to seven illnesses. This means a high organisational effort for medication and drug management.

The Medinox Medication Management system can be used very easily in inpatient care, as is already the case in outpatient care. Here, too, the Medinox advantages of easy handling, high safety and quality are of great benefit. In the context of drug therapy, the pharmacy supplying the clinic can specifically support the wards in order to save time resources. The hospital pharmacy adjusts the medication to suit each patient in advance, checks the medication and thus provides the appropriate trays for each patient on the wards. In addition, the medicines are checked and documented by specialist pharmacists, which enormously increases safety in daily work.

The hospital pharmacies can act as a central switching point for a number of hospitals and thus provide the medicines on time even when supplying several hospitals and network structures. Regular documentation ensures that all obligations in drug therapy are met and managing the needs of a large number of patients can be implemented very effectively.

In the inpatient sector, it is also possible to distribute liquids in Medinox sealed-cups. This is much more hygienic and safe than manual application. This eliminates the time-consuming and separate administration of liquid drugs. The time saved can be used for other tasks and the nursing staff can spend time caring for patients.

With the Medinox sealed-cup system, a well-structured discharge planning and transitional planning can also be implemented. Patients who have prescribed medication or prescriptions for up to seven days receive the appropriate support with a sufficient number of sealed trays. The potential so-called "revolving door effect" and short-term rehospitalizations that damage the hospital's reputation can thus be avoided.





Our Quality – **Your Safety**

During the development of the Medinox Medication Management system, special attention was paid to pharmaceutical quality. For verification, we have acquired certification through many testing methodologies.

Checks by the **Central Laboratory of German Pharmacists e.V.**

Stability of solid finished products after simultaneous sealing

The stability of three representative dosage forms with simultaneous blistering in a Medi cup was investigated. For this purpose ASS 100 mg HEXAL® tablets were sealed together with L-Thyroxin-Na ratiopharm® 100 µg tablets as well as Aciclovir ratiopharm® 200 mg. The chemical-physical stability was demonstrated over a period of 31 days.

Stability of liquids in the Medinoxx sealed-cup system

Industrially manufactured liquid drugs containing the active ingredients melperone, pipamperone and novaminsulphone 500 mg Lichtenstein® drops were individually blistered. The physicochemical stability was confirmed for a total period of 31 days by determining the content and the pH value.

Microbiological stability of liquids in the Medinoxx sealed-cup system

In addition to the above-mentioned verification of the stability of liquids, the microbiological stability including lactulose was investigated. The results obtained demonstrate the microbiological stability of all investigated liquid preparations for a period of 31 days.

Extractables Study

In addition to the stability studies already mentioned, it was investigated whether substances were extracted from the Medinoxx sealed-cup system under extreme conditions. On the basis of the results obtained, it cannot be assumed that substances from the cup and foil material accumulate in the blistered drug when ethanolic solutions (20%), for example, are filled.

We would be pleased to provide you with the detailed examination reports of the Central Laboratory of German Pharmacists e.V.

Certified production of the Medinoxx sealed-cup system

All components of our sealed-cup system are manufactured in Germany and Austria using state-of-the-art production methods. Medinoxx's manufacturing plants exclusively produce according to the DIN EN ISO 15378 standard for primary packaging developed from the ISO 9001 and GMP QM systems and the guideline of the German Federal Pharmacists' Chamber "Testing and Storage of Primary Packaging".

Become our Partner

In our opinion, the predominant classical image of customer and supplier is no longer up to date. An apparently good status quo is not a benchmark for us. In order to be able to master future challenges together, we are much more reliant on your experience, suggestions and criticism from daily practice at your pharmacy. Therefore, we look forward to winning you as our partner.

In return, we would like to pay you back with our extended range of services. This already begins in the set-up phase with Medinox, which is much easier than you might think.

To get an idea of the advantages for yourself, you can test the Medinox Medication Management system free of charge. If you are convinced, you do not need to make any expensive investments. We offer an inexpensive rental option for the automatic sealing machine without any time commitment. You decide for yourself how long you want to supply your customers with Medinox.



Our Services – **Your Success**

Medinnox not only offers you a sophisticated sealed-cup medication management system, we also support you with the corresponding information material for a successful acquisition of new customers. In addition, we offer you professionally designed information brochures and support you in all other aspects of a successful acquisition. The following marketing and consulting services are available:

Successful new acquisition of care-homes:

- Professionally prepared information brochure with all aspects for a successful care-home delivery; personalized for your pharmacy with your company logo.
- If required, personal support in presenting and explaining the process sequences of the Medication Management in your facility.
- Support in the planning and implementation of a presentation of the Medinnox Medication Management in your pharmacy.

Successful acquisition of patients at home in your pharmacy:

- Provision of a short film showing the advantages of blistering by your pharmacy. This film can be personalized with your logo and other attributes.
- Ready-made flyers to show in your pharmacy, with your pharmacy logo.

The modern
**Medication
Management.**



Reduce.
Reuse.
Recycle.
**For a clean
environment.**



In the context of sustainability and environmental protection for future generations, careful handling of raw materials is of particular importance. It is essential to reduce or avoid waste as much as possible, as far as this is acceptable in the context of drug safety. Following this credo, the new medication management system was developed. Medinox is the first and only system that uses reusable trays and thereby sustainably protects the environment.

The Medi cups are made of single-variety plastics and can easily be fed into the recycling cycle. In comparison to similar medication management systems, up to 95% of the plastic waste can be avoided within a period of 3 years.

We at Medinox are proud of the fact that the entire added value of the production chain takes place in Germany and Austria.

As the topic of environment and sustainability corresponds to our company philosophy and is at the same time a “affair of the heart”, we do not limit our environmental thinking only to our products, but also aim to act as environmentally friendly and sustainable as possible. For example, we print exclusively on recycled paper - just like this information brochure.



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