

E F F E C T U M **M E D I C A L**

YOUR START-UP TO MARKET

WE BRING YOU TO MARKET

Effectum Medical facilitates an efficient, accelerated market access for MedTech innovators by offering a maintained Plug-and-Play QMS and acting as legal manufacturer.



PLUG-AND-PLAY QMS 2.0

SERVICE OVERVIEW JUNE 2022



Our Plug-and-Play QMS 2.0

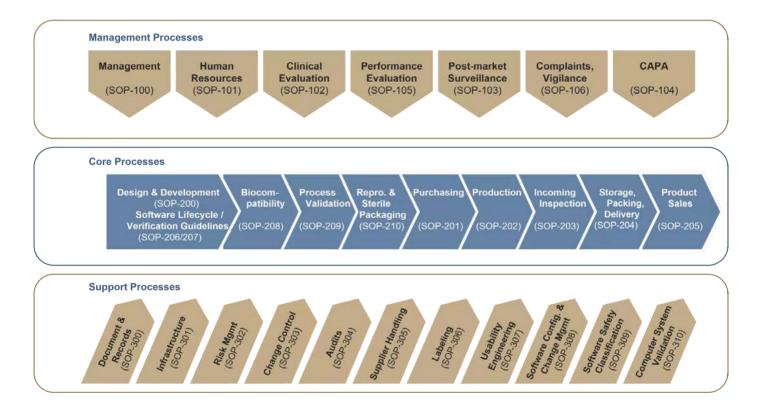


We offer an actively applied and maintained and certified Quality Management System. Our QMS covers more than "just" ISO 13485: we offer a QMS according to ISO 13485, MDD/MDR, and IVD/IVDR standard, with > 40 norms implemented (see "Appendix: List of Norms considered in our QMS"). The Plug-and-Play QMS 2.0 packages include 30 Standard Operating Procedures (SOP's) and 134 templates.

What makes the quality standard of our QMS unique, is that we are ourselves using the same framework for our legal manufacturer services and it's being applied daily for medical devices, medical software and IVD products. We are continuously enhancing it to ensure optimal workflows and it is regularly audited by notified bodies and customers. Thus, you can trust that **our QMS is up to date at all times** and that we provide a **state-of-the art solution**.

Once you decide for our plug-and-play QMS you can **start working with the QMS** and preparing documents **within a few days** rather than spending several weeks or even months with establishing a QMS from scratch. This saves not only costs, but also shortens your time to market

We accompany you throughout your journey to obtain your own company certification – be it ISO 13485, MDR or IVDR certification – and give you a hand with establishing the technical documentation for product certification.





A modular concept - pick and chose required services

Our **QMS** is modular, meaning that you can pick and chose the services that you require. We offer various optional packages that you can select from:



Maintenance up-date & customer center

- You can book this service additionally to the Plug-and-Play QMS 2.0, if you would like to **receive** regular up-dates on the changes, amendments, and additions that we make to our QMS
- Further, you receive access to our customers center which is your access point to our own ecosystem and network within the Medical Device Industry, across Europe. You find basic training information, useful tips & tricks that goes beyond our QMS and gives you access to key contacts and partners, e.g. suppliers, clinical studies and much more.

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Support package covering additional/further support as needed

- Individual coaching / guidance through the product development process, Q&A sessions
- Review of documents technical documentation
- Adaptation of QMS to your specific needs Customization of QMS & adaptation of SOPs and templates
- PRRC training throughout a year on the topic of PRRC after which you can act as PRRC yourself



Contractual Framework

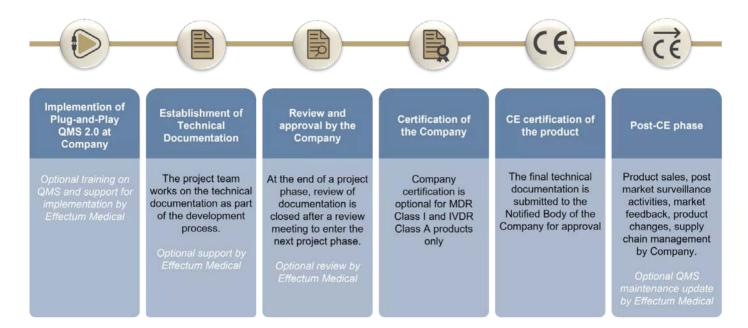
- Receive a set of contract templates in line with your QMS to establish your contractual framework with your suppliers and partners. Select the full set or choose individual templates.
- The set includes a Quality Assurance Agreement (QAA) and Purchasing Agreement.,
- The contract templates have been reviewed by our legal advisors. However, we do not provide any legal advice by making the templates available.



Our proven process

Once you have decided for our Plug-and-Play QMS 2.0, we initiate your on-boarding starting off with an Introductory training to gain an understanding of the elements and aspects of a QMS according to ISO 13485, MDR and IVDR standards and how to work with such a QMS. You can **start working with the QMS and preparing documents within only a few days**.

With access to our SOP's and templates you can get started, running through our proven process:



We serve from start-ups to global players

Not only Startups, but also R&D, Regulatory Affairs and Quality Management teams of established MedTech companies can count on us as an external service provider.





What our customers say

"We started to work on quality management at a very early stage of the company development. Thanks to the collaboration with Effectum Medical we could address the quality aspects, which were important at the time, without extensive investment in QM. As a result of the partnership with Effectum Medical we had access to industry-level expertise in quality management and we could acquire this knowledge from professionals.

We benefited from all the experience that Effectum Medical had in complying with standards and other regulations, starting from trainings and advice, and ending with professional document structure and templates. We could truly focus on the validation of the core technology."

GRZEGORZ WIELGOSZEWSKI, SENIOR R&D ENGINEER RESISTELL

"Effectum Medical offered us the one-stop-solution we were seeking for. We could immediately start working in their quality management systems and benefit, at the same time, from their broad experience and great knowhow. It is the combination of QM infrastructure and advisory capacity what makes them unique.

We have chosen Effectum Medical as Legal Manufacturer because we liked the approach to share risk, simplify processes, reduce time-to-market by increasing efficiency. When challenges arise, the team is very solution-oriented and shows a pragmatic approach. Overall, it is a very satisfying collaboration for us, and we have not been disappointed."

> EMANUELA PUFE, HEAD OF MEDIQ (PDAG)

"Thanks for your help getting us started! It was extremely valuable. Now we are becoming more and more independent! Please do not take it personally that we are now breaking away...it only proves that your program works and that you generate strong value & impact."

RONJA BRUHN, CEO & CO-FOUNDER OF STIMIT AG

Want to find out more?

We are happy to assist you with any further questions that you might have or if you are interested in receiving a proposal for our Plug-and-Play QMS 2.0 or any of our other services.



Effectum Medical offers outsourced QMS & Legal Manufacturing



Maintenance of QMS

and software.

Product Development & Technical

We are ISO 13485 certified for non-active medical devices

- We have implemented and maintain a quality management system according to ISO 13485, MDR, IVDD, FDA.
- We act as Legal Manufacturer for our customers.



We have profound experience supporting a project, from product idea to

product registration.

- Profound project management experience •
- Product development (Engineering) •
- **Technical Documentation**
- Product registration (EU, USA, others



Supporting Processes

Our team covers the entire value chain of a company.

- . **Business development**
- Market development
- Supplier Handling .
- Supplier contracts

Network

Extensive network of partners and experts

- . Suppliers & manufacturers
- Surgeons of different specialties
- Scientific & technical experts

Our Team

An interdisciplinary team with a broad range of competencies and many years of experience in MedTech and IVD.



Karina Candrian CEO & Co-Founder



Julia Enders Regulatory Affairs Manager



Sarina Flühler Junior Quality Manager



Dr. Rolf Kaufmann Senior Project Manager



Lora Kushner Manager Legal Affairs



Rebekka Jeger Junior Project Manager



Anne-Marie Joller HR Manager



Dr. Georg Lambert Clinical Evaluations



Dr. Annalisa Macagno Senior Project Manager



Camilla Messerli Deputy Head QM & RA



Ulrike Neuberger Marketing & Key Account Management



Simon Rammerstorfer Junior PM SCM



Tom Overes Engineering TD



Nila-Pia Rähle Head QM & RA & Co-Founder



Claudia Reichle Head Project Management



Jens Richter Technology Advisor & Co-founder



Markus Stohler Head Supply Chain Management



Monika Trümpler Marketing & Management Support



Harald Züger Finance Manager

References



Next generation software for the assessment of the interaction of combination treatments Healthcare Service provider

- **Motivation/Scope:** Next generation software for the assessment of the interaction of combination treatments with two or more drugs, food or stimulants, considering genetic characteristics.
- Challenge: The database was being sold for several years, but not approved as a medical software. The customer does
 not have a quality management system (QMS) according to ISO 13485 in place, and therefore lacks the framework
 suitable to register the product as a medical software.
- **Solution:** Outsourcing of quality management (QM) and regulatory affairs (RA) to Effectum Medical. Effectum Medical acts as legal manufacturer.
- **EM-Team:** technical documentation, independent reviewer, management and alignment with 3rd party provider, responsible for the software development for preparation of technical documentation
- Achievement: The customer's lack of know-how in RA/QM for medical software was filled, and the project was realised in a short timeframe. Within 2 months the technical documentation was finalized, and certification obtained.



Development of instruments for an alternative arthroplasty surgical technique

- Global Manufacturer for Medical Devices
- **Motivation/Scope:** Development of surgical instruments which facilitate an alternative surgical technique and are compatible with existing implants and instruments.
- Challenge: The Customers R&D and QA/RA teams were absorbed with transition to MDR; long milestone process for getting CE certification.
- **Solution:** Outsourcing of product development process to Effectum Medical for engineering and establishment of technical file. Effectum Medical acts as legal manufacturer. Integration into the customers QMS once the product is established in the clinical environment.
- EM-Team: Design Engineering, Regulatory and Quality Management, Independent Reviewer
- Achievement: The customer's shortage of resources was bridged, and the project was realized in a short timeframe. It took 3 months for engineering, technical documentation, manufacturing and certification.



Development of trial components for a new arthroplasty surgical technique Health Care Professionals / Clinical Research Center

- Motivation/Scope: Development of trial components which are compatible with an existing third-party arthroplasty system.
- **Challenge:** The customer had no internal engineering and no quality management system. It wasn't economical to implement all of it for this project.
- **Solution:** Outsourcing of engineering and quality management to Effectum Medical. Effectum Medical acts as legal manufacturer.
- EM-Team: Design Engineering, Regulatory and Quality Management, Independent Reviewer
- Achievement: Product development, certification and production was realised within 6 months and the customer could apply the new surgical technique, using the new instruments, in the OR.



Development of a spinal cage portfolio including surgical instruments Start-up - Swiss SME

- **Motivation/Scope**: Development of a new product family of spinal cages and the required reusable instrumentation.
- **Challenge:** Innovator/ investor with a product idea, but without experience in medical device development and product registration.
- **Solution:** Effectum Medical was an outsourcing partner for building a new company, developing the product portfolio, implementing a QMS, obtaining ISO certification and preparing the company for selling it to an investor.
- EM-Team: CEO, Design Engineering, Regulatory and Quality Management
- Achievement: The product idea was realized with complete development and first production followed by an exit after 18 months.



Appendix: List of Norms considered in our QMS

Norm	Description	SOP
MepV 812.213	Medizinprodukteverordnung	QM / SOP-102 / SOP-307 /SOP- 103 / SOP-106 / SOP-303
Commission Regulation (EU) No 207/2012	Electronic instructions for use of medical devices	SOP-306
Council Directive 98/79/EEC	Directive on in-vitro Medical Devices (IVDD)	QM / SOP-106 / SOP-306 / SOP-307
Manufacturer Incident Report (MIR)	Manufacturer Incident Report (MIR) for Serious Incidents (MDR/IVDR) and Incidents (AIMDD/MDD/IVDD)	SOP-106
Regulation (EU) 2017/745	New Medical Device Regulation (MDR), amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC	QM / SOP-101 / SOP-102 / SOP-103 / SOP-104 / SOP-106 / SOP-200 / SOP-202 / SOP-306 / SOP-307
Regulation (EU) 2017/746	New In-vitro diagnostic Device Regulation (IVDR)	QM / SOP-103 / SOP-105 / SOP-200 / SOP-306 / SOP-307
United States CFR Title 21	US Regulation for Medical Devices	QM / SOP-306 / SOP-103 / SOP-104 / SOP-106 / SOP-200 / SOP-307
EN 1041	Information supplied by the manufacturer of medical devices EN 1041:2008+A1:2013	SOP-306
EN 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance	SOP-302 SOP-307
EN 62304	Medical device software – Software life cycle processes	SOP-206 SOP-207 SOP-308 SOP-309
EN 62366-1	Medical Devices – Part 1: Application of usability engineering to medical devices	SOP-302 SOP-307
EN 868-5	Packaging for terminally sterilized medical devices - Part 5: Sealable pouches and reels of porous materials and plastic film construction - Requirements and test methods	SOP-210
EN ISO 10993-1	Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk manamgent process	SOP-208
EN ISO 10993-17	Biological evaluation of medical devices — Part 17: Establishment of allowable limits for leachable substances	SOP-209
EN ISO 10993-18	Biological evaluation of medical devices - Part 18: Chemical characterization of medical device materials within a risk management process	SOP-208



EN ISO 10993-5	Biological evaluation of medical devices — Part 5: Tests for in vitro cytotoxicity	SOP-209
EN ISO 11135	Sterilization of health care products — Ethylen eoxide — Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices	SOP-210
EN ISO 11137-2	Sterilization of health care products — Radiation — Part 2: Establishing the sterilization dose	SOP-210
EN ISO 11607-1	Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems (ISO 11607-1:2019); German version EN ISO 11607-1:2020	SOP-210
EN ISO 11607-2	Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes (ISO 11607-2:2019); German version EN ISO 11607-2:2020	SOP-210
EN ISO 11737-1	Sterilization of health care products — Microbiological methods — Part 1: Determination of a population of microorganisms on products	SOP-209
EN ISO 13485	Medical devices - Quality management systems - Requirements for regulatory purposes	QM / SOP-101 / SOP-103 / SOP-104 / SOP-106 / SOP-209 / SOP-300 / SOP-305
EN ISO 14971	Medical devices – Application of risk management to medical devices	SOP-206 SOP-302 SOP-307
EN ISO 15223-1	Medical Devices – Symbols to be used with medical device labels, labeling and information to be supplied – Part 1: General requirements	SOP-306
EN ISO 15223-1 EN ISO 17100	labeling and information to be supplied – Part 1: General	SOP-306 SOP-306
	labeling and information to be supplied – Part 1: General requirements	
EN ISO 17100	Iabeling and information to be supplied – Part 1: General requirementsTranslation services — Requirements for translation servicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical	SOP-306
EN ISO 17100 EN ISO 17664-1	Iabeling and information to be supplied – Part 1: General requirementsTranslation services — Requirements for translation servicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices — Part 1: Critical and semi-critical medical devicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices — Part 1: Critical and semi-critical medical devicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical	SOP-306 SOP-210 SOP-210
EN ISO 17100 EN ISO 17664-1 EN ISO 17664-2	Iabeling and information to be supplied – Part 1: General requirementsTranslation services — Requirements for translation servicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices — Part 1: Critical and semi-critical medical devicesProcessing of health care products — Information to be provided by the medical device manufacturer for the processing of medical devices — Part 2: Non-critical medical devicesSterilization of health care products; Moist heat; Part 1: Requirements for the development, validation and routine control of a sterilization	SOP-306 SOP-210 SOP-210



EN ISO 18113-3	In vitro diagnostic medical devices : Information supplied by the manufacturer (labelling) : In vitro diagnostic instruments for professional use	SOP-306
EN ISO 18113-4	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 4: In vitro diagnostic reagents for self-testing	SOP-306
EN ISO 18113-5	In vitro diagnostic medical devices — Information supplied by the manufacturer (labelling) — Part 5: In vitro diagnostic instruments for self-testing	SOP-306
EN 60601-1-11	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment	SOP-307
EN 82304-1	Health software Part 1: General requirements for product safety	SOP-206
ISO 19227	Implants for surgery — Cleanliness of orthopedic implants — General requirements	SOP-209
ISO 20916	In vitro diagnostic medical devices Clinical performance studies using specimens from human subjects Good study practice	SOP-105
ISO/IEC 25010	Systems and software engineering – Systems and Software Quality Requirements and Evaluation (SQuaRE)-System and software quality models	SOP-207
ISO/TR 80002-2	Validation of software for medical device quality systems	SOP-310
ISO/TS 10993-19	Biological evaluation of medical devices — Part 19: Physico- chemical, morphological and topographical characterization of materials	SOP-209
ISO/TS 13004	Sterilization of health care products — Radiation — Substantiation of selected sterilization dose: Method VDmaxSD	SOP-210