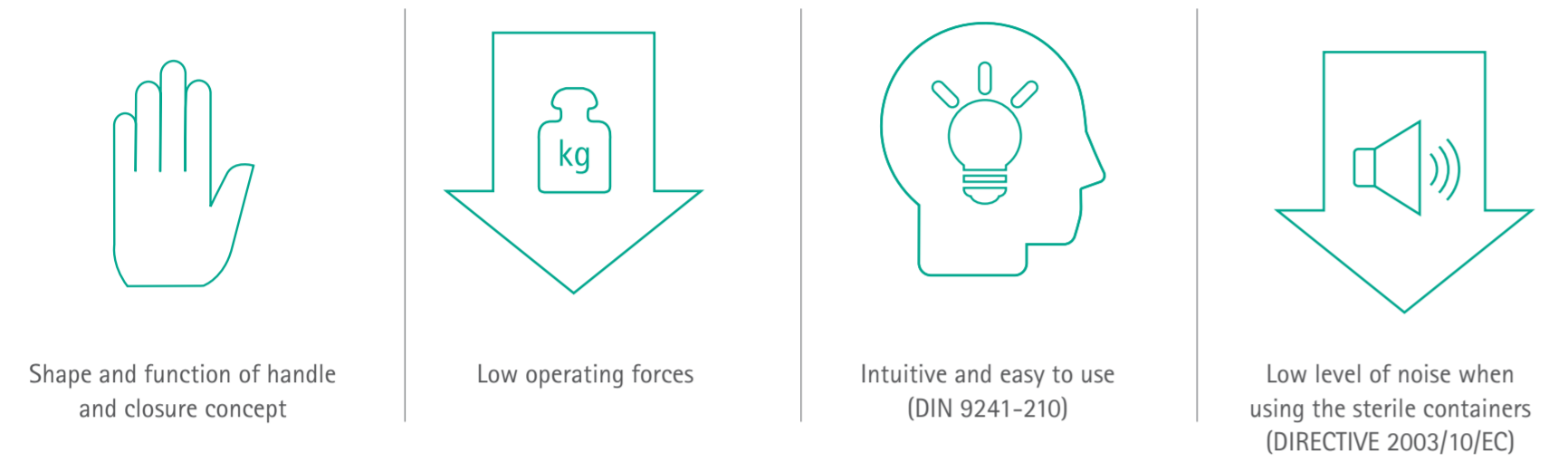


ERGONOMIC QUALITY OF AESCULAP Aicon® STERILE CONTAINERS AND BASKETS

SCIENTIFIC INFORMATION

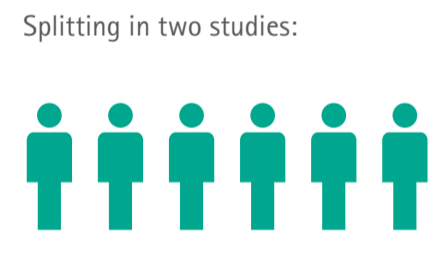
From an ergonomic point of view, the following design criteria of sterile containers and baskets are of particular importance^{1,2,3}:



AIM OF A PRESENT RESEARCH⁴

- ✓ Testing the new AESCULAP Aicon® container and basket under established ergonomic parameters
- ✓ Comparison with the previous version / generation
- ✓ Analyzing benefits tested by ergonomics consultants and real users

METHODS

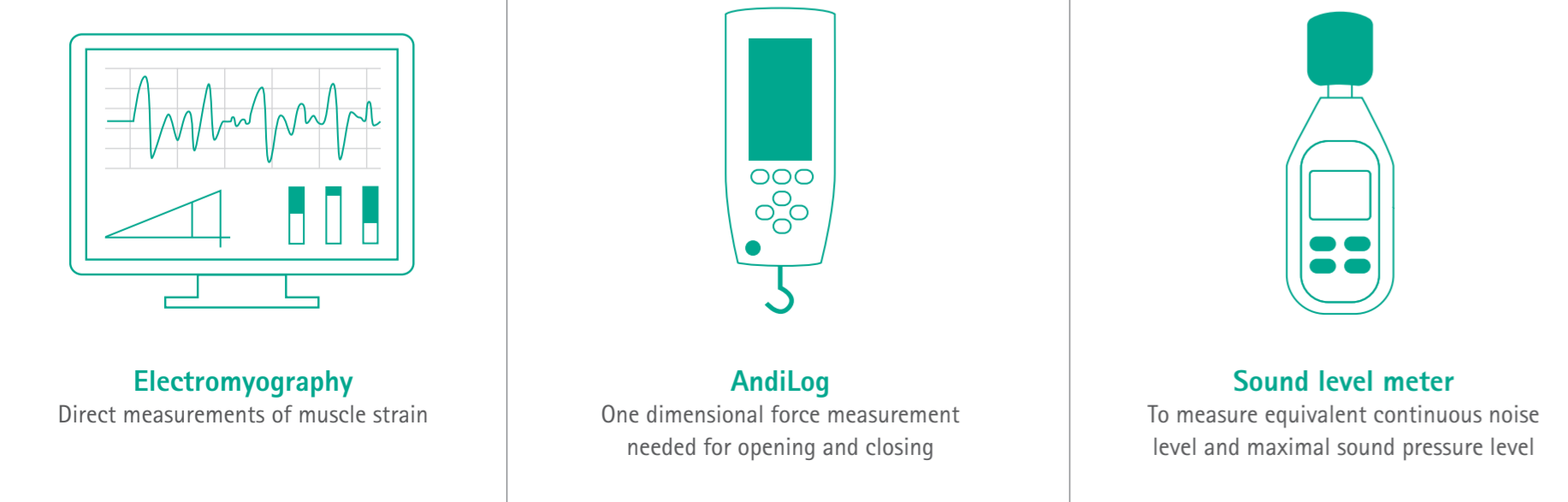


Expert study
(n=6, ergonomic experts of IAD-(Institute of Ergonomics of the Technical University Darmstadt), subjective assessment via questionnaire)



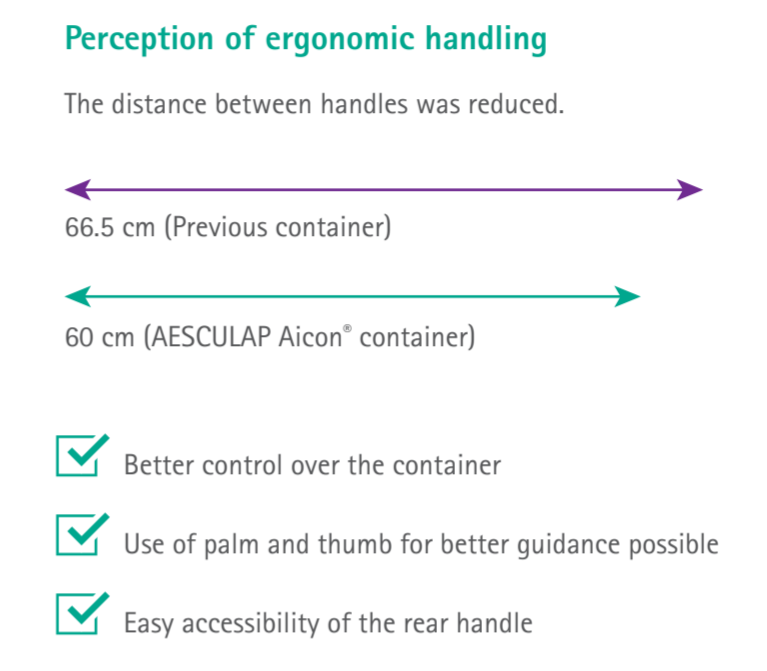
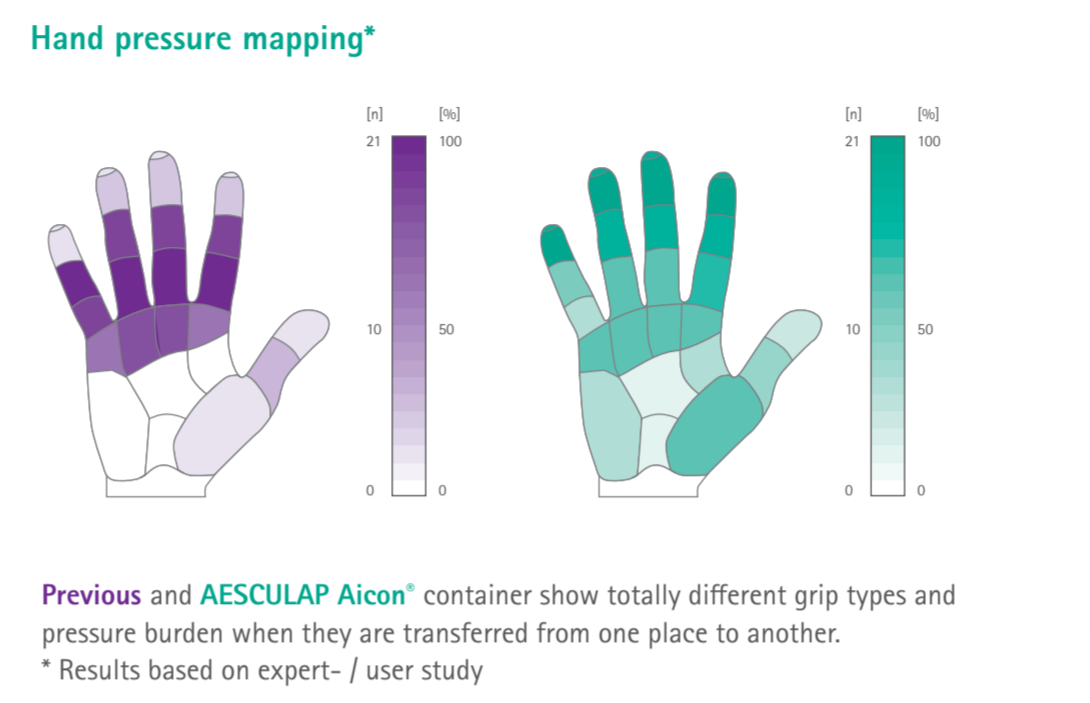
User study
(n=15, from Darmstadt Hospital, CSSD and OR employees, subjective assessment via questionnaire and objective assessment)

OBJECTIVE ASSESSMENT / MEASUREMENT METHODOLOGY

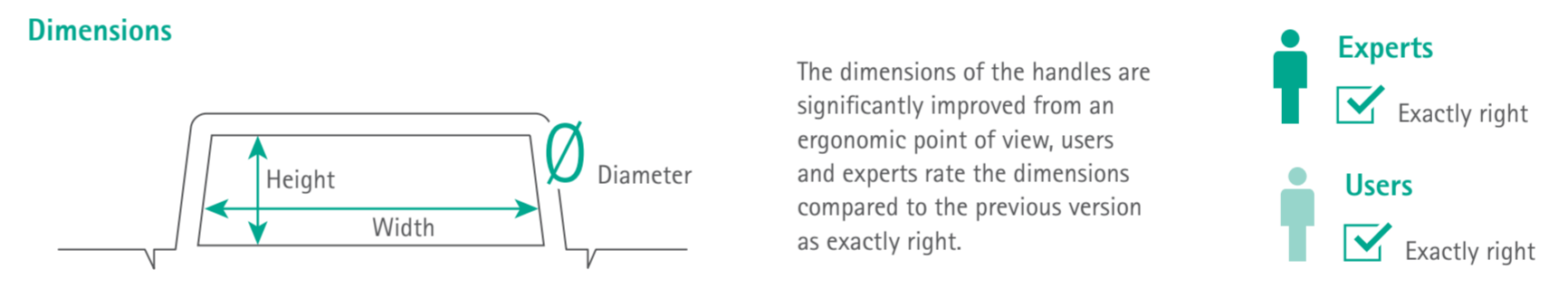


STUDY RESULTS

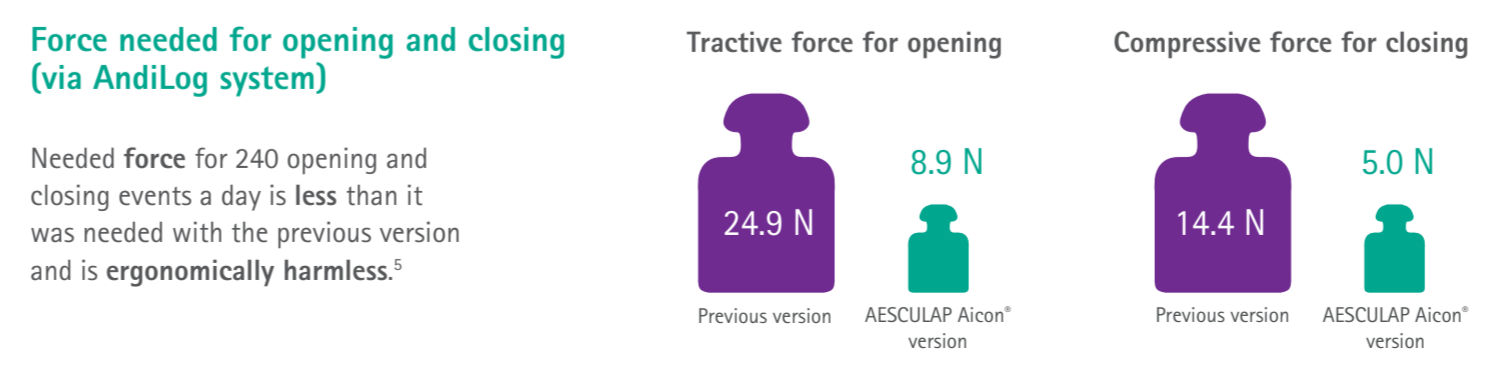
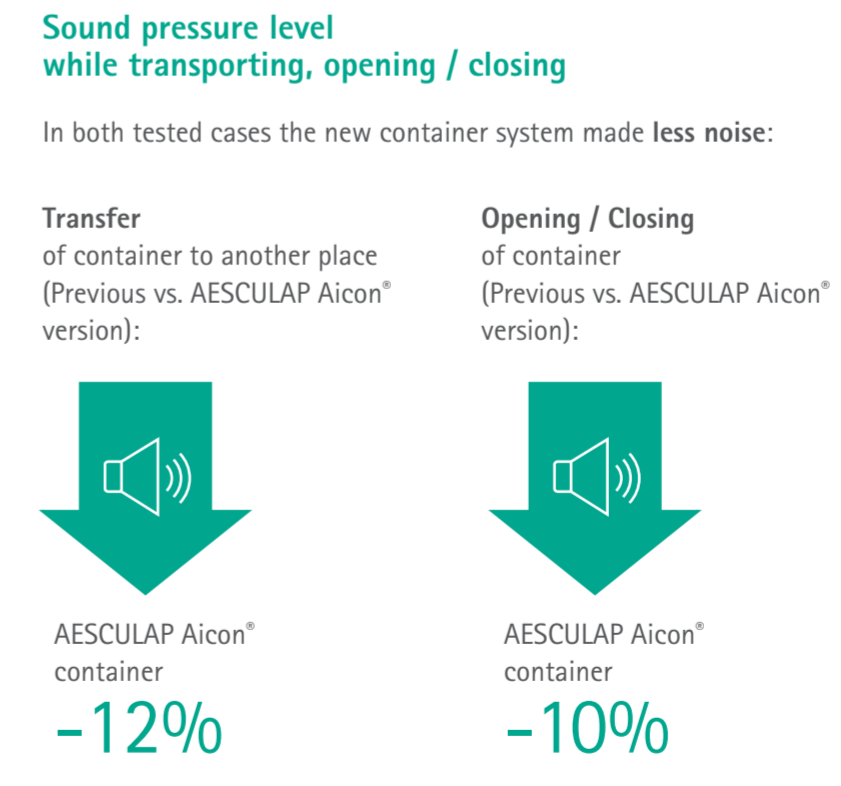
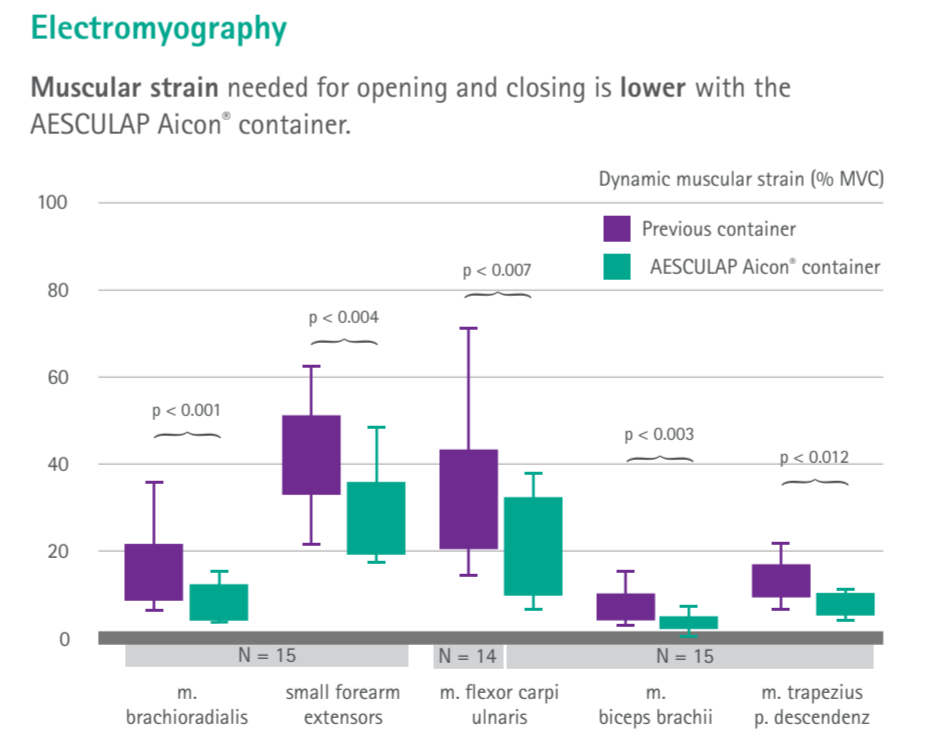
1. Subjective results – CONTAINER



2. Subjective results – BASKET

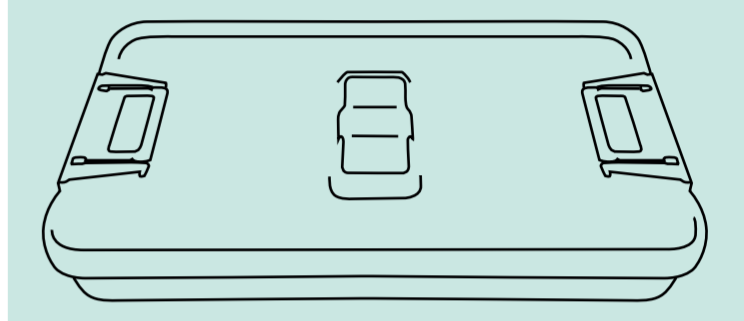


3. Objective results

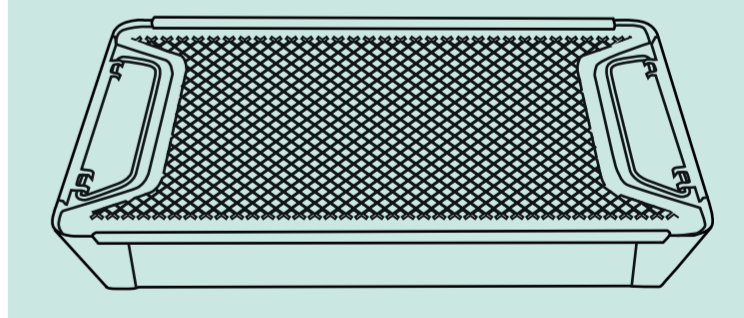


CONCLUSION

The handling of the AESCULAP® sterile container and baskets of the AESCULAP Aicon® series is more ergonomic and offers **advantages:**



- Particularly positive is the **ergonomic design** of the opening mechanism of the container. This has also been confirmed by users in relevant studies.⁶
- Similarly, the significantly **lower noise** of the AESCULAP Aicon® container during use is a very positive feature of the new container generation.⁶



- The **gripping and holding** conditions of the AESCULAP Aicon® basket are also very good.⁶

Sources:
 1 Deutsches Institut für Normung e.V.: DIN 33402-2 – Ergonomie – Körpermaße des Menschen.
 2 Deutsches Institut für Normung e.V.: DIN 58952-3 Sterilisation – Transportkörbe für Sterilbarrieresysteme – Teil 2: Sterilisierkörbe aus Metall.
 3 Deutsches Institut für Normung e.V.: DIN EN 968-9:2019-03 Verpackungen für in der Endverpackung zu sterilisierende Medizinprodukte.
 4 Ergonomische Beurteilung von Sterilcontainern und Siebkörben, Institut für Arbeitswissenschaft der Technischen Universität Darmstadt, Forschungsauftrag der Aesculap AG, 2019.
 5 Wakula, J.; Berg, K.; Schaub, K.; Bruder, R.; Glitsch, U.; Ellegast, R.P. (2009): Der montagespezifische Kraftatlas (BGIA-Report 3/2009). Hrsg.: Deutsche Gesetzliche Unfallversicherung (DGUV), Berlin 2009.
 6 Gutachten zur ergonomischen Qualität der AESCULAP® Sterilcontainer der AESCULAP® Aicon®-Serie; Prof. Dr.-Ing. Ralph Bruder; Institut für Arbeitswissenschaft der TU Darmstadt, Deutschland.