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###### A. B. Lastname1\*, C. Lastname2,3, …., and F. G. Lastname3

1 Department of Example Science, Example University, City, Country

2 Example Labs, City, Country

3 Company, City, Country

\* Corresponding author, email: [author@example.edu](mailto:author@example.edu)

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3D printing is of outstanding importance in medical engineering and has been growing continuously in recent years. From prostheses and soft implants to matrices for tissue engineering, additive manufacturing has decisive advantages for medicine.

Additive manufacturing, often referred to as 3D printing, has long since proven its suitability for everyday use. However, many questions remain unanswered for use in medicine. Complex melting and hardening processes take place during the layer-by-layer construction of medical devices from liquid or solid materials, the physical-chemical modelling of which is often still pending, so that a discussion forum is to be given at AMMM on topics relating to the achievable precision and the expected technical properties of the medical devices produced in this way.

Questions about the precision and interaction of the printed materials with their future application matrix are important for all industries. However, these requirements are of particular interest in the medical environment, where biological compatibility and long-term stability are of particular importance. Medical technology companies are also faced with the question of whether this modern manufacturing technology should only be used in prototype and individualized sample development or also in series production. Costs and benefits have to be assessed very individually.

Author’s statement   
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Conflict of interest: Disclose any conflict of interest. If co/authors are employees of a company, then note that here. Likewise, shareholdings in companies are to be mentioned. Otherwise: Authors state no conflict of interest.

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Informed consent: Informed consent has been obtained from all individuals included in this study.

Ethical approval: The research related to human use complies with all the relevant national regulations, institutional policies and was performed in accordance with the tenets of the Helsinki Declaration, and has been approved by the authors’ institutional review board or equivalent committee.

Acknowledgments: The preferred spelling of the word “acknowledgment” in America is without an “e” after the “g”. Avoid the stilted expression, “One of us (R. B. G.) thanks . . .” Instead, try “R. B. G. thanks”. Research funding: The authors state no funding involved.

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