

# CLAS App ML

## Citation for published version (APA):

Maher, B. (Author), Hartkopf, K. (Author), Stieger, L. (Author), Schroeder, H. (Author), Sopka, S. (Author), Orrego, C. (Author), & Drachsler, H. (Author). (2014). CLAS App ML. Software, Open Universiteit.

## Document status and date:

Published: 18/12/2014

## Document Version:

Peer reviewed version

## Document license:

CC BY-NC-SA

## Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

## General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

<https://www.ou.nl/taverne-agreement>

## Take down policy

If you believe that this document breaches copyright please contact us at:

[pure-support@ou.nl](mailto:pure-support@ou.nl)

providing details and we will investigate your claim.

Downloaded from <https://research.ou.nl/> on date: 02 Jul. 2022

Open Universiteit  
[www.ou.nl](http://www.ou.nl)



# The CLAS App ML

Maher, B., Hartkopf, K., Stieger, L., Schroeder, H., Sopka, S., & Orrego, C., Drachsler, H.,

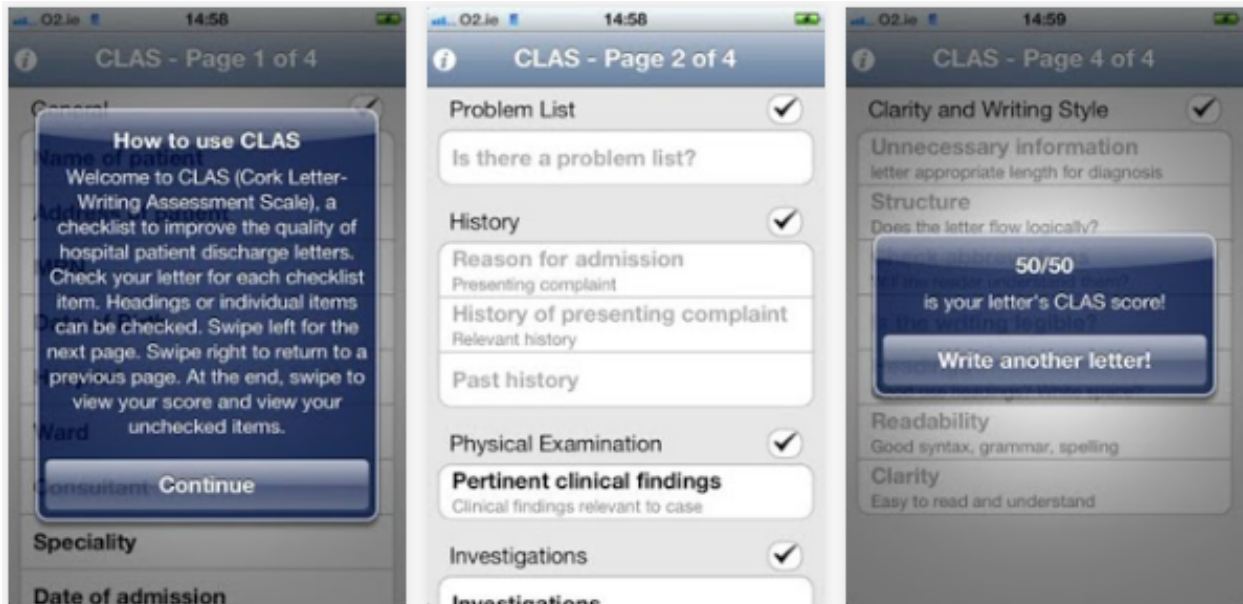
## Abstract

This is a multi-language (ML) update of the CLAS App original design by Bridget Maher from the School of Medicine at University College Cork, Ireland. The current version has an improved counting mechanism and has been translated from English to Spanish, Catalan and German languages within the European project PATIENT ([www.patient-project.eu](http://www.patient-project.eu)).

The CLAS App ML aims to train good written communication skills as they are essential to the practice of medicine and avoidance of medical error. The hospital discharge letter is probably the most important of all written communications between hospital and General Practitioner (Family Doctors). However, discharge letters vary greatly in quality, structure, cohesion, and 'readability'. Most discharge letters are written by junior doctors and frequently omit important information. The School of Medicine at University College Cork developed a comprehensive check-list i-phone application to improve the quality of hospital discharge letters.

The CLAS scale lists the key elements of a discharge letter - reason for admission, investigations, results, diagnosis, problem list, medications, management plan, name and contact details of doctor writing the letter etc. There are 4 pages of items, divided into various sections. Either a section heading or an individual item can be ticked. Most items score 1, but some items of particular importance, such as medication, score higher. Total CLAS score is 50. At the end, the user is shown his total score and can swipe to see a list of unchecked items.

By using the CLAS application as a point-of-practice reference tool, doctors and medical students can improve their letter-writing skills, decrease the risk of medical error and improve patient safety. With the new version CLAS App ML we aim to provide a standard within Europe for the structure of hospital discharge letter. Therefore, the App has been translated to 3 new languages.



## Version & change log

Version	Date	URI
1.2	30-August-2014	<a href="https://play.google.com/store/apps/details?id=org.welten.clas_v_1">https://play.google.com/store/apps/details?id=org.welten.clas_v_1</a>
1.2	30-August-2014	<a href="https://itunes.apple.com/de/app/clas-app-ml/id896607128?mt=8">https://itunes.apple.com/de/app/clas-app-ml/id896607128?mt=8</a>

## References

For instance refer to an older version of this package

Maher, B., Drachsler, H., Kalz, M., & Specht, M. (2012, 16-18 October). The CLAS App - A training app to improve medical handovers. Presentation at the 11th World Conference on Mobile and Contextual Learning, Helsinki, Finland.

