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Better Forms, Better Data

**Product Showcase with
Bryan Farrow of OpenClinica**

What a Difference a Form Makes

- If data is the lifeblood of a study, forms are its kidneys and arteries.
- We want data that's clean and fast-flowing.
- As form designers, we have a direct impact on DAYS of a CRC's work life
- How are we going to help the CRC make the most of those minutes?
- In other words, how are we going to get better data, faster?

The Five Factors of eCRF Usability

- **Form content** – Are the labels and instruments familiar to the user/CRC?
- **Form layout** – Is the form designed for the optimal balance of efficiency and accuracy? Consider pagination, item group headings, skip logic behavior...

The Five Factors of eCRF Usability

- **Input process** – Flexible where it needs to be? Structured where it needs to be? Intuitive UI for date specification, select one, select many?
- **Error handling** – Real-time? Detailed?

The Five Factors of eCRF Usability

- **Form submission** – Clear distinction between “close” and “complete”? Clear “reason for change” workflow?

Alice Mugisha, Victoria Nankabirwa, Thorkild Tylleskär & Ankica Babic.
A usability design checklist for Mobile electronic data capturing forms: the validation process. BMC Medical Informatics and Decision Making. Volume 19, Article number: 4 (2019)

<https://bmcmmedinformdecismak.biomedcentral.com/articles/10.1186/s12911-018-071>

The Five Factors of eCRF Usability

Data Collection of Medication – Impact of Autocompletion in eCRFs on Efficiency and Data Quality

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Objective: Openclinica Input Completion (OIC) was developed to increase the efficiency to enter drugs in eCRF in OpenClinica[®]. The aim of the study was to evaluate the impact on efficiency and data quality as well as usability. Methods: 20 participants were asked to input 15 drugs with the new tool and by hand. Results: The mean input time got decreased from 16:12m to 3:59m. 31 of 300 (10%) of manual entered medication data sets had one or more errors versus 10 of 300 (3,3%) data sets entered with OIC. Conclusion: OIC was able to increase efficiency and data quality. We conclude that new additions to the graphical user interface in electronical Case-Report-Form (eCRF) systems should be validated before usage in research projects.