



MONDAY 07 DECEMBER 2020

HOW TO MAKE A SCIENTIFIC POSTER

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What we will cover

What makes a good poster

Tools to develop a poster

Promoting and presenting your poster

What is a poster?

A poster is a visual abstract of your research, project, organisation or initiative...



It's not a bottomless pit where you dump everything about a given topic or piece of work!



Posters of congress abstracts

Pediatric Rheumatology 2017, 15(Suppl 2):65

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Introduction: Childhood ornet rheametic and musculosketual diseases PRIDc) can influence multiple aspects of a young person's life. The journey towards adulthood spans several years, where young people divelop a set of tools to cope with new strations. Selfmanagement is an integral part of the process, and smartphone applications (appl) represent an innovative and efficient method of promoting self- and shared management of RMO.

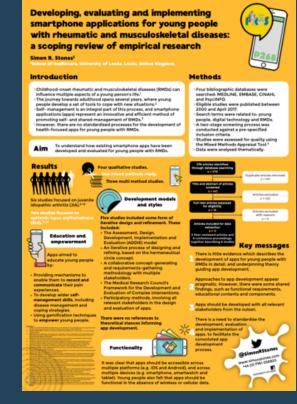
Objectives: This scoping review aims to understand how existing smartphone apps have been developed and evaluated for young people with RMDs.

Methodic lifylitie studies published between 2000 and 2017 were detertified through a comprehensive search of four bibliographic distretified through a comprehensive search of four bibliographic dichabases. The search strategy included MelH subject headings and fee-less search terms referring to young people, digital technology and RMOs. The quality of included studies were assessed using the Mixed Methods Appealsal Tool.

Results: The combined bibliographic searches identified 576 articles. Once duplicates were removed, 441 titles and abstracts were were screened, 19 of which were eligible for a full-text review. Following full-text review, 11 articles were suitable for inclusion. Of these, three articles were peer-reviewed journal articles, while eight were conference proceedings. Out of 11 included articles, eight studies were described: six involving juvenile idiopathic arthritis (IAI) and two involving systemic lupus erythematosus (SLE). All eight studies fo-cused on educating young people with RMDs about their conditions. Three studies had developed apps to record and communicate pain experiences associated with JA, while others focused on wider selfmanagement skills. The heterogeneity in the design, evaluation and delivery of apps was noticeable, with clear similarities in the needs of young people with different RMDs. Common findings from all studies included the need to develop agos across multiple platforms and devices which do not require wireless or cellular data to be functional. There were, however, some shared styles to developing apps among the included studies. Some method of user testing and iterative cycle of designing and refining the apps was observed. The Assessment Design, Development, Implementation and Evaluation (ADDIE) model of designing and refining based on the hermoneutical circle concept. A collaborative concept-generating and requirements- gathering methodology was used in another study, while the Medical Research Council's framework for the development and evaluation of complex interventions was used in another.

Conclusion: This scoping review highlights that there is little emplicited evidence published which describes the development of smari-phore agas for young people with MIND. Of the available evidence, approaches appear fragmented and pragmatic, supposing the need for standardisation to facilitate the convoluted and demanding processors required to develop apps.

Disclosure of Interes None Declared.



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Developing, evaluating and implementing smartphone applications for young people living with rheumatic and musculisticital diseases: a scoping review of empirical research Smoon & Sazese

School of Healthcare, University of Leeds, Leeds, UK. Reliatric Rheumotology 2017, 15/5-appl 25/756

Advantages and disadvantages of poster presentations

Advantages

Enables **two-way dialogue** about a particular topic.

Great for **networking**.

Visual communication.

Disadvantages

Can be **time-intensive** to design and expensive to print.

Can be considered **less formal/professional** than oral
presentations.

Can be difficult to transport.

A four-stage process



Setup and sizing



Design



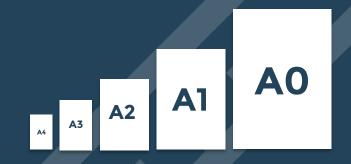
Core ingredients



Review and next steps

1. Setup and sizing: Poster size

- Check for available presenter guidelines.
 - Poster hanging board size.
 - Poster size (typically A0/A1) and orientation (portrait or landscape).
 - A0 841 x 1189 mm
 - A1 594 x 841 mm
 - A2 420 x 594 mm
 - A3 297 x 420 mm
 - A4 210 x 297 mm



1. Setup and sizing: Poster size

- Identify an existing template, or create your own.
- Ensure the document is the correct size at the outset.
 - Setting up posters in A4 'normal' paper size, and then attempting to print at A0 will result in a poor resolution – with the poster looking 'unclear' and 'pixelated'.

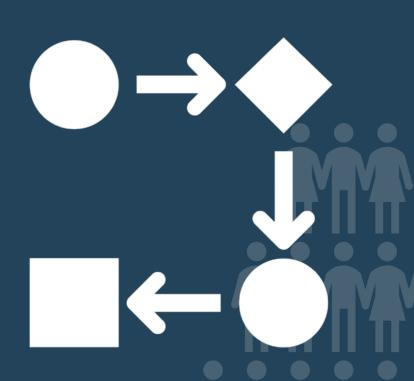
2. Core ingredients: Know your audience



- Patients/carers
- Academic/ healthcare professionals
- Policy makers
- Multiple audiences

2. Core ingredients: Contents

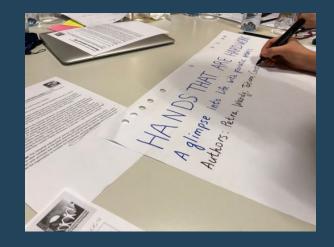
- Title
- Author(s) and affiliation(s)
- Introduction
- Aims/objectives
- Materials and methods
- Results
- Conclusions
- Acknowledgments



2. Core ingredients: Storyboarding

To start off, begin with pen and paper! Design the first, rough visualisation of your poster.

- There's no need for content/data at this stage.
- Rather, visualise dimensions and where you want to place things.



3. Design: Layout

Let it breathe

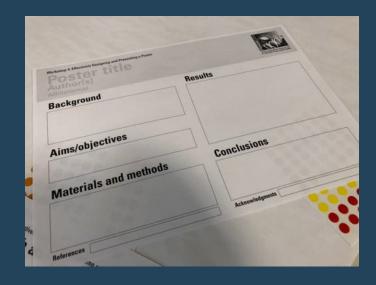
Don't overload the poster.

Keep things aligned

 Invisible grids help to provide a professional look.

Guide the reader

 People's natural tendency is to read from left to right, then top to bottom.



3. Design: Layout (#betterposter)



Main finding goes here, translated into plain english. Emphasize the important words.





3. Design: Proportions and sizes

- The proportions of each section of the poster will depend on the need for the poster, as well as the content.
- In general, the results and conclusions are key sections of any poster - particularly the take home messages.



3. Design: Fonts

- The largest possible fonts
 - A rule of thumb is that 30 pt is visible from 1.8 metres.
- Good or bad fonts can make or break a poster
 - Be consistent.
 - Use two complementary fonts.
 - Avoid word art.





3. Design: Colours

- Don't be afraid of using background colours, with text in boxes - colour can help to attract people to the poster.
- Font colour must contrast highly with its background.
 - Consider people who may not be able to distinguish between colours, and those who have dyslexia (e.g. light but not white background).
- Beware of subconscious messaging with the colours you select (e.g. red can induce anxiety, green can convey relaxation).

3. Design: Visuals

- Use good quality images with the correct permissions
- Use consistent colours and fonts with graphs and figures
- Visuals should enhance the poster message





4. Review and next steps

Critiquing a draft





- Send your poster to colleagues for comment.
- Print out your poster (on A4) to spot easy mistakes.
- Find a printing service to print your poster (if face-to-face).
 - Think about paper type (e.g. gloss, matte, laminated, fabric).
 - Look around for the most cost-effective/convenient option.
- Use a cardboard/plastic tube to transport your poster, or use fabric for a more convenient option.

Find what works for you



Microsoft PowerPoint

Pros: Popular program, user-friendly tools, accessible on Mac/PC. **Cons:** Expense if organisation doesn't provide the program.



Pages

Pros: User-friendly interface and tools.

Cons: Accessible only to Mac users.



Canva

Pros: User-friendly interface and tools, accessible across multiple platforms, online storage, templates, free options.

Cons: Limited tools on the free package, requires internet access.

Other examples include: Adobe InDesign, Adobe Illustrator and Scribus.

Top tips for presenting

Poster sessions are great places for **networking**, so take business cards or leaflets with you in person, and make sure to be 'by your poster' if the conference is online.

Know your poster! You only have a small amount of time to engage people. Keep it concise, but informative, and don't forget to **emphasise your key messages!**

Provide **handouts of your poster or a QR code** for people to access the poster after they walk away (physically or virtually)!

Think about online promotion too, storing on your organisation website, or repositories like ResearchGate and FigShare.





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