SUPPLEMENTAL FILE 1: INTERVIEW TOPIC GUIDE

Main questions formed the core structure of the interview, further follow-up questions were put forward dependent on initial response.

- What methods would you currently use for monitoring and feedback during patient rehabilitation?
  Example of follow-up questions:
  - *What about outside of the clinic?*
  - *When do you employ these methods?*
  - *Does that provide the information that you need? Why?*

- Do you know anything about wearable technology?
  Example of follow-up questions:
  - *If so tell me what you know, how they're used and your view of them.*
  - *Why do you have that view of them?*
  - *What do you think are the benefits / drawbacks of those you're aware of?*

- What do you think are the opportunities of using technology in orthopaedic rehabilitation?
  Example of follow-up questions:
  - *Have you been involved in / are you aware of any projects taking place?*
  - *Why do you think technology might help in that instance?*

- Equally what do you think are the challenges?
  Example of follow-up questions:
  - *What do you think the risk would be when encountering that challenge?*
  - *How do you think those challenges could be overcome?*

- What do you think of the role of mobile phones and tablets in monitoring of patients?
  Example of follow-up questions:
  - *You say you think it'd be useful, in what way could it help?*
  - *Why do you think smart phones can play that role?*

DEMONSTRATION OF EXEMPLAR SYSTEM PROVIDED

- Having used this technology, what do you think about using software like this for this purpose?
  Example of follow-up questions:
  - *Why does this system have that effect?*
  - *You think it'll improve the quality of rehabilitation – How?*

- How did you find using this particular application?

- What impact do you think this could have for patient rehabilitation?
  Example of follow-up questions:
    - *And what about any impact on your practice?*
    - *How do you see the difference using that might have on the way you work?*

- Based on your experience, what could be improved in the system?
  Example of follow-up questions:
    - *What did you think about the way the information was presented in the app?*
    - *Did you encounter any difficulties whilst using the software, any tasks that you found difficult or technical issues?*
    - *How would you comment on the user experience of the system?*
    - *What else needs to be considered in the design of the system?*