

#### Multimedia Appendix 4: Intervention characteristics

Study	Ainscough 2016	Zairina 2016	Ledford 2016	Choi 2016
Participant risk category	Moderate		Low	
Domain				
<b>User experience</b>				
User or “pilot” testing of app in design or development stage	-	-	-	Yes
Links to shared participant “chat” spaces	-	No	No	No
<b>Content</b>				
App developed specifically for the intervention	-	Yes	Yes	Yes
App is publicly available	-	No	No	No
Study cites stakeholder review for quality assurance	-	-	-	-
Study cites evidence base for app content (e.g. references clinical practice guidelines, endorsed educational content, published manuals, etc)	-	Yes	-	Yes
<b>Patient-provider communication</b>				
Facilitation within the app by expert, clinician, other	-	No	No	No
Healthcare provider access to user data for tracking purposes	-	Yes	-	No
<b>Functionality</b>				
App connects to a device built in to phone	No	No	No	No
App connects to a device through a “plug-in”	No	Yes	No	Yes
“Push communication” feature where messages sent directly to user (e.g. reminders to use the app, fill in a survey)	-	Yes	-	Yes
Study provides information comparing cost of app intervention with other communication modes	No	No	No	No
<b>Data tracking</b>				
Feature(s) for user to record own data	-	Yes	Yes	Yes
Feature(s) to automatically record user data	-	Yes	Yes	Yes
User access to data for tracking	-	Yes	Yes	Yes
App privacy policies or terms of use articulated	-	-	-	Yes

Notes: - Not reported.