

## Multimedia Appendix 2 MEDLINE search strategy

Item#	Search terms
1	Search “diabetes mellitus”[mh] OR diabete*[tw] OR diabetic*[tw] OR IDDM[tw] OR NIDDM[tw] OR T1DM[tw] OR T2DM[tw] OR T1D[tw] OR T2D[tw] OR DM[tw] OR MODY[tw] OR ((Insulin*[tw] OR noninsulin*[tw]) AND depend*[tw])
2	Search “blood glucose”[mh] OR ((“blood”[mh] OR “blood”[subheading] OR blood[tw] OR serum[tw] OR plasma[tw]) AND (glucose[tw] OR sugar[tw])) OR glyce*mi*[tw] OR glyce*mi*[tw]
3	Search “blood glucose self-monitoring”[mh]
4	Search #1 or #2 or #3
5	Search “mobile applications”[mh] OR app [tiab] OR apps [tiab] OR ((application[tiab] OR applications[tiab] OR software[tiab] AND mobile[tw])
6	Search “cell phones”[mh] OR phone*[tw] OR cellphone*[tw] OR smartphone*[tw] OR iphone*[tw] OR ipad*[tw] OR ipod*[tw] OR ios[tw] OR android[tw]
7	Search #5 or #6
8	Search #4 and #7
9 <sup>a</sup>	Search "2007"[Date-Publication]:"3000"[Date-Publication]
10	Search #8 and #9

<sup>a</sup>The universal operating systems of mobile devices were marketed in 2007.