

Table S1. Study characteristics of studies with non-clinical samples. N/A: Not Available; N: Number of subjects; D: study Duration; F: Female; BDI: Becks Depression Inventory; DASS: Depression Anxiety Stress Scales; CDI: Children's Depression Inventory; PHQ: Patient Health Questionnaire; CES-D: Center for Epidemiological Studies Depression; SWLS: Satisfaction With Life Scale; QOL: Quality of Life; rPOMS: reduced Profile of Mood States; BRUMS: Brunel Mood Scale; PF: Penalized functional; P corr: Pearson correlation; SVM: Support Vector Machine; LME: Linear Mixed Effects; BHR: Bayesian hierarchical regression; GD: Group difference

| Main Author;year | Device;name | Recruitment | N (% F) | Age (m ± SD) | D (days) | Outcome | Method |
|---------------------|--------------------------------|---|-----------|--------------|----------|------------------------------|-------------------------|
| Asselbergs [3];2016 | Android;funf | Flyers at Vrije Universiteit Amsterdam, The Netherlands | 27 (78%) | 21.1 ± 2.2 | ≈36 | 10p mood scale | P corr |
| Baras [4];2016 | Android;Emotionstore | Students at the University of Madeira Funchal, Portugal | 10 (10%) | N/A | 14 | Depression subscale of BRUMS | P corr |
| Becker [5];2016 | Android;funf | Flyers at Vrije Universiteit Amsterdam, The Netherlands | 27 | Students | 42 | Mood | BHR |
| Ben-Zeev [17];2015 | Android | Class announcement at the university. | 47 (N/A) | 22.5 | 70 | PHQ-9 | PF regression |
| Berke [8];2011 | Mobile Sensing Platform device | Retirement community | 8 (50%) | 85.3 ± 4.1 | 10 | CES-D | P corr |
| Canzian [9];2015 | Android;MoodTraces | Academic mailing list + social media | 28 (46%) | 31 | 71 | PHQ-8 | P corr |
| Cho [1];2016 | Phone | Korea University Ansan Hospital | 532 (56%) | 57 | N/A | BDI | P corr |
| Chow [10];2017 | Android | Advertisement through university mail | 72 (51%) | 19.8 ± 2.4 | 17 | DASS-21 | GME model |
| DeMasi [11];2016 | Android | University of California, Berkeley USA | 44 (61%) | N/A | 56 | BDI | Linear regression |
| Edwards [12];2016 | Digi-Walker Pedometer | Word of mouth to students | 39 (59%) | 21.82 | 7 | PHQ-9 | Low activity vs Control |
| Farhan [13];2016 | Android & iOS;LifeRhythm | e-mail + flyers, University of Connecticut, USA | 79 (74%) | 18-25 | N/A | PHQ-9 | P corr |
| Mark [19];2016 | Fitbit Flex | Research division in U.S. | 40 (50%) | N/A | 12 | Affect balance | LME |
| Matic [16];2011 | Windows M. 6.5;MyExperience | Local research center | 9 (33%) | 28.4 ± 2.8 | 7 | rPOMS | Spearmans corr |
| Mehrotra | Android | N/A | 25 (N/A) | N/A | 30 | PHQ-8 | Kendall's |

| | | | | | | | |
|----------------------|----------------------|---|----------|-------------|-----|--------|------------------|
| [18];2016 | | | | | | | rank corr |
| Mestry [2]; 2015 | Android 2.3+ | Sardar Patel Institute of Technology Mumbai, India | 2 (50%) | 22 | ≈34 | DASS21 | P corr |
| Pillai [20]; 2014 | Actigraph | Student enrolled from psychology courses | 39 (74%) | 19.55 ± 3.2 | 7 | BDI | P corr |
| Saeb [6];2015 | Android;Purple Robot | Craigslist advertisement | 28 (71%) | 28.9 ± 10.1 | 14 | PHQ-9 | P corr |
| Saeb [7];2016 | Android | Studentlife data | 48 (21%) | Students | 70 | PHQ-9 | P corr |
| Wang [14];2015 | Android;Studentlife | Students at Dartmouth College, USA | 37 (N/A) | N/A | 70 | PHQ-9 | P corr |
| Wang [15];2014 | Android;Studentlife | Students at Dartmouth College, USA | 48 (21%) | N/A | 70 | PHQ-9 | P corr (post) |

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