

Table 2

Distribution of the Participants in the Included Studies by Gender and Race

Authors (Year)	Participant Characteristics			
	Gender	Percentage	Race/Ethnicity	Percentage
Fukuoka et al. (2010)	F	100%	Minority	59%
Rabin et al. (2011)	GP		NR	
Turner et al. (2011)	F	48%	Non-Hispanic White	75%
			Non-Hispanic Black	19%
			Other	6%
Archer et al. (2012)	F	81.7%	NR	
Burke et al. (2012)	F	84.8%	Non-Hispanic White	78.1%
Allen et al. (2013)	F	78%	Non-Hispanic Black	49%
Kim et al. (2013)	F	80.4%	Non-Hispanic Black	
King et al. (2013)	F	73.5%	Non-Hispanic White,	69%
			Hispanic/Latino	13%
			Asian	12%
Napolitano et al. (2013)	F	86.5%	Non-Hispanic White	57.7%
			Non-Hispanic Black	30.8%
			Hispanic	5.8%
			Asian	1.9%
			Biracial/Multiracial	1.9%
			Other	1.9%
Norman et al. (2013)	F	80%	Non-Hispanic White	75%
Shapiro et al. (2012)	F	65%	Non-Hispanic White	64%
Spring et al. (2013)	M	85.5%	Non-Hispanic White	75.4%
			Non-Hispanic Black	24.6%
Steinberg et al. (2013)	F	75%	Non-Hispanic White	74%
Thomas et al. (2013)	F	95%	Non-Hispanic White	85%
			Non-Hispanic Black	5%
			American Indian	5%
Bond et al. (2014)	F	83.3%	Non-Hispanic White	66.7%
			Non-Hispanic Black,	13.3%

			American Indian,	3.3%
			Asian	3.3%
			Other	13.3%
Laing et al. (2014)	F	73%	Hispanic or Latino	33%
			Non-Hispanic White	48%
			Non-Hispanic Black	19%
			Asian	8%
			Native American/Pacific Islander	2%
Cowdery et al. (2015)	F	85%	Non-Hispanic White	85%
Gilliland et al. (2015)	F	66%	NR	
Svetkey et al. (2015)	F	69.6%	Non-Hispanic White	56.2%
			Non-Hispanic Black	36.2%
			Other	7.7%
Sze et al. (2015)	F	90%	Non-Hispanic White	90%
			Other	10%
Willey et al. (2016)	F	100%	Non-Hispanic White	

Abbreviations: F, female; M, male; GP, general population; NR, not reported.

Sources:

Allen, Jerilyn K., Janna Stephens, Cheryl R. Dennison Himmelfarb, Kerry J. Stewart, and Sara Hauck. "Randomized Controlled Pilot Study Testing Use of Smartphone Technology for Obesity Treatment." *Journal of Obesity* 2013 (2013): 151597.

Archer, Edward, Erik J. Groessl, Xuemei Sui, Amanda C. McClain, Sara Wilcox, Gregory A. Hand, Rebecca A. Meriwether, and Steven N. Blair. "An Economic Analysis of Traditional and Technology-based Approaches to Weight Loss." *American Journal of Preventive Medicine* 43, no. 2 (2012): 176–82.

Bond, Dale S., J. Graham Thomas, Hollie A. Raynor, Jon Moon, Jared Sieling, Jennifer Trautvetter, Tiffany Leblond, and Rena R. Wing. "B-MOBILE: A Smartphone-based Intervention to Reduce Sedentary Time in Overweight/Obese Individuals: A Within-Subjects Experimental Trial." *PLoS One* 9, no. 6 (2014): e100821.

Burke, Lora E., Mindi A. Styn, Susan M. Sereika, Molly B. Conroy, Lei Ye, Karen Glanz, Mary Ann Sevick, and Linda J. Ewing. "Using mHealth Technology to Enhance Self-Monitoring for Weight Loss: A Randomized Trial." *American Journal of Preventive Medicine* 43, no. 1 (2012): 20–26.

Cowdery, Joan, Paul Majeske, Rebecca Frank, and Devin Brown. "Exergame Apps and Physical Activity: The Results of the ZOMBIE Trial." *American Journal of Health Education* 46, no. 4 (2015): 216–22.

Fukuoka, Yoshimi, Eric Vittinghoff, So Son Jong, and William Haskell. "Innovation to Motivation—Pilot Study of a Mobile Phone Intervention to Increase Physical Activity Among Sedentary Women." *Preventive Medicine* 51, no. 3 (2010): 287–89.

Gilliland, Jason, Richard Sadler, Andrew Clark, Colleen O'Connor, Malgorzata Milczarek, and Sean Doherty. "Using a Smartphone Application to Promote Healthy Dietary Behaviors and Local Food Consumption." *BioMed Research International* 2015 (2015): 1–11.

Kim, Bang Hyun, and Karen Glanz. "Text Messaging to Motivate Walking in Older African Americans: A Randomized Controlled Trial." *American Journal of Preventive Medicine* 44, no. 1 (2013): 71–75.

King, Abby C., Eric B. Hekler, Lauren A. Grieco, Sandra J. Winter, Jylana L. Sheats, Matthew P. Buman, Banny Banerjee, Thomas N. Robinson, and Jesse Cirimele. "Harnessing Different Motivational Frames Via Mobile Phones to Promote Daily Physical Activity and Reduce Sedentary Behavior in Aging Adults." *PLoS One* 8, no. 4 (2013): e62613.

Laing, Brian Yoshio, Carol M. Mangione, Chi-Hong Tseng, Mei Leng, Ekaterina Vaisberg, Megha Mahida, Michelle Bholat, Eve Glazier, Donald E. Morisky, and Douglas S. Bell. "Effectiveness of a Smartphone

- Application for Weight Loss Compared with Usual Care in Overweight Primary Care Patients: A Randomized, Controlled Trial." *Annals of Internal Medicine* 161, no. 10, suppl. (2014): S5–S12.
- Napolitano, Melissa A., Sharon Hayes, Gary G. Bennett, Allison K. Ives, and Gary D. Foster. "Using Facebook and Text Messaging to Deliver a Weight Loss Program to College Students." *Obesity* 21, no. 1 (2013): 25–31.
- Norman, Gregory J., Julia K. Kolodziejczyk, Marc A. Adams, Kevin Patrick, and Simon J. Marshall. "Fruit and Vegetable Intake and Eating Behaviors Mediate the Effect of a Randomized Text-Message Based Weight Loss Program." *Preventive Medicine* 56, no. 1 (2013): 3–7.
- Rabin, Carolyn, and Beth Bock. "Desired Features of Smartphone Applications Promoting Physical Activity." *Telemedicine and e-Health* 17, no. 10 (2011): 801–3.
- Shapiro, Jennifer R., Tina Koro, Neal Doran, Sheri Thompson, James F. Sallis, Karen Calfas, and Kevin Patrick. "Text4Diet: A Randomized Controlled Study Using Text Messaging for Weight Loss Behaviors." *Preventive Medicine* 55, no. 5 (2012): 412–17.
- Spring, Bonnie, Jennifer M. Duncan, E. Amy Janke, Andrea T. Kozak, H. Gene McFadden, Andrew DeMott, Alex Pictor, et al. "Integrating Technology into Standard Weight Loss Treatment: A Randomized Controlled Trial." *JAMA Internal Medicine* 173, no. 2 (2013): 105–11.
- Steinberg, Dori M., Deborah F. Tate, Gary G. Bennett, Susan Ennett, Carmen Samuel Hodge, and Dianne S. Ward. "The Efficacy of a Daily Self-Weighing Weight Loss Intervention Using Smart Scales and E-mail." *Obesity* 21, no. 9 (2013): 1789–97.
- Svetkey, Laura P., Bryan C. Batch, Pao-Hwa Lin, Stephen S. Intille, Leonor Corsino, Crystal C. Tyson, Hayden B. Bosworth, et al. "Cell Phone Intervention for You (CITY): A Randomized, Controlled Trial of Behavioral Weight Loss Intervention for Young Adults Using Mobile Technology." *Obesity* 23, no. 11 (2015): 2133–41.
- Sze, Yan Yan, Tinuke Oluyomi Daniel, Colleen K. Kilanowski, R. Lorraine Collins, and Leonard H. Epstein. "Web-Based and Mobile Delivery of an Episodic Future Thinking Intervention for Overweight and Obese Families: A Feasibility Study." *JMIR mHealth and uHealth* 3, no. 4 (2015): e97.
- Thomas, J. Graham, and Rena R. Wing. "Health-e-call, a Smartphone-assisted Behavioral Obesity Treatment: Pilot Study." *JMIR mHealth and uHealth* 1, no. 1 (2013): e3.
- Turner-McGrievy, Gabrielle, and Deborah Tate. "Tweets, Apps, and Pods: Results of the 6-Month Mobile Pounds Off Digitally (Mobile POD) Randomized Weight-Loss Intervention among Adults." *Journal of Medical Internet Research* 13, no. 4 (2011): e120.
- Willey, Steven, and James K. Walsh. "Outcomes of a Mobile Health Coaching Platform: 12-Week Results of a Single-Arm Longitudinal Study." *JMIR mHealth and uHealth* 4, no. 1 (2016): e3.