

Table S2. Emerging Studies of Internet-delivered PtDAs [1-8]: Studies Conducted Since the Most Recent (2011) Cochrane Collaboration Review [9]

Author, Year, Reference Number	Clinical Context	Study Design	Primary Results
Li, 2012, [1]	Rheumatoid arthritis	Development & field test, n = 15, of ANSWER interactive website PtDA	<ul style="list-style-type: none"> - Positive usability scores - Acceptable viewing time “Think Aloud” analysis yielded 3 themes: - User engagement - Information quality - User interaction
Joseph- Williams, 2010, [2]	PSA screening	Observational study, n = 82, usage data examined for associations between Prosdex usage and components of informed decision making	<p>Increased Prosdex usage was significantly associated with:</p> <ul style="list-style-type: none"> - Increased knowledge - Decreased favorable attitude about PSA testing - Reduced intention to undergo PSA testing
Evans, 2010, [3]	PSA screening	RCT, n = 514, randomized to 4 groups: viewing Prosdex website in location of their choice vs. paper version, with baseline questionnaire or without	<p>Compared to control, viewing Prosdex:</p> <ul style="list-style-type: none"> - Increased knowledge scores - Decreased favorable attitude about PSA screening - Decreased screening - Decreased decisional conflict <p>Prosdex outcomes did not differ significantly with paper version</p>
Miller, 2011, [4]	Colorectal cancer	RCT, n = 264, randomized to CHOICE, an Internet- delivered video, versus control video	<p>CHOICE video group reported:</p> <ul style="list-style-type: none"> - Increased post-intervention preference - Increased readiness to receive screening
Simon, 2012, [5]	Depression & acute low back pain	RCT, n = 131, randomized to tailored Patient Dialogue website or static patient information	<p>Patient Dialogue group reported:</p> <ul style="list-style-type: none"> - Lower decisional conflict scores - Higher preparation for decision making scores

Hoffman, 2012, [6]	Knee osteoarthritis	Development and field test, n = 126, of interactive, step-wise, tailored Internet PtDA, compared to usual care (with video PtDA)	Development model integrated decision support and informatics methods Internet PtDA group reported: <ul style="list-style-type: none"> - Knowledge scores and usability scores above usual care - 100% preference to view PtDA on home/public computer - Higher preparation and self-efficacy scores - Lower decisional conflict scores
Sivell, 2012, [7]	Breast cancer surgery	Observational cohort study, n = 54, evaluating use of BresDex, based on collected web-log data of components accessed and time spent, overall and on each component	<ul style="list-style-type: none"> - Using BresDex increased readiness to make surgery decision - More time spent on BresDex was associated with stronger intentions to have surgery and lower pre-intervention readiness to make a surgery decision - Surgery intentions and choices were significantly related - Majority of participants went on to have surgery
Durand, 2012, [8]	Amniocentesis	Development of two deliberation components for AmnioDex, a graphic, interactive, web-based PtDA based on “Take the Best” heuristics and integration algorithm. Evaluation, n = 48, by researchers, healthcare providers, and pregnant women.	<p>Researchers reported that the tools:</p> <ul style="list-style-type: none"> - Were useful in facilitating decision making - Need simple instructions, clear layouts <p>Health-care providers expressed concerns regarding the usability and clarity of the tools</p> <p>Pregnant women found the tools useful in:</p> <ul style="list-style-type: none"> - Weighing pros and cons - Clarifying their thoughts - Visualizing their decision efforts - Potentially inappropriate for this difficult, emotional decision

References

- [1] Li LC, Townsend AF, Badley EM: **Self-management interventions in the digital age: New approaches to support people with rheumatologic conditions.** *Best Pract Res Clin Rheumatol* 2012, **26**:321-333.
- [2] Joseph-Williams N, Evans R, Edwards A, Newcombe RG, Wright P, Grol R, Elwyn G: **Supporting informed decision making online in 20 minutes: an observational web-log study of a PSA test decision aid.** *J Med Internet Res* 2010, **12**:e15.
- [3] Evans R, Joseph-Williams N, Edwards A, Newcombe RG, Wright P, Kinnersley P, Griffiths J, Jones M, Williams J, Grol R *et al*: **Supporting informed decision making for prostate specific antigen (PSA) testing on the web: an online randomized controlled trial.** *J Med Internet Res* 2010, **12**:e27.
- [4] Miller DP, Jr., Spangler JG, Case LD, Goff DC, Jr., Singh S, Pignone MP: **Effectiveness of a web-based colorectal cancer screening patient decision aid: a randomized controlled trial in a mixed-literacy population.** *Am J Prev Med* 2011, **40**:608-615.
- [5] Simon D, Kriston L, von Wolff A, Buchholz A, Vietor C, Hecke T, Loh A, Zenker M, Weiss M, Harter M: **Effectiveness of a web-based, individually tailored decision aid for depression or acute low back pain: a randomized controlled trial.** *Patient Educ Couns* 2012, **87**:360-368.
- [6] Hoffman AS, Llewellyn-Thomas HA, Tosteson ANA, O'Connor AM, Volk RJ, Tomek I, Bartels SJ, Andrews SA: **Development of an Internet-based patients' decision aid for surgical versus nonsurgical management of knee osteoarthritis.** [abstract] The 34th Annual Meeting of the Society for Medical Decision Making; 2012.
[\[http://smdm.confex.com/smdm/2012az/webprogram/Session1601.html\]](http://smdm.confex.com/smdm/2012az/webprogram/Session1601.html)

- [7] Sivell S, Edwards A, Manstead AS, Reed MW, Caldon L, Collins K, Clements A, Elwyn G: **Increasing readiness to decide and strengthening behavioral intentions: evaluating the impact of a web-based patient decision aid for breast cancer treatment options (BresDex: www.bresdex.com)**. *Patient Educ Couns* 2012, **88**:209-217.
- [8] Durand MA, Wegwarth O, Boivin J, Elwyn G: **Design and usability of heuristic-based deliberation tools for women facing amniocentesis**. *Health Expect* 2012, **15**:32-48.
- [9] Stacey D, Bennet CL, Barry MJ, Col NF, Eden KB, Holmes-Rovner M, Llewellyn-Thomas HA, Lyddiatt A, Légaré F, Thomsson R: **Decision aids for people facing health treatment or screening decisions**. *Cochrane Database of Syst Rev* 2011.