

Knowledge Translation at the Point of Care

Disclosure



Medical leadership, equity @ QxMD

Objectives



- Increase productivity
- Be smarter in less time
- We all need to contribute to apps

Problem



HCPs Face Information Overload

- 20M papers available in PubMed
- 25K journals
- 16K new papers each week

HCPs Want to Apply Best Evidence & Provide

- Difficult to identify important content
- Difficult to apply at the point of care
- Shift from volume to value

12 Easy Steps to get your Patient List for the Whole Group

- 1. Green Meditech Icon
- Your name & <u>new</u> password (mblackwell → xx00)
- 3. Click EMR
- 4. Click only 1 time "Pt Census by Provider"
- 5. Click RCH & Green √ on Right of screen
- 6. Click Acute Pt Census by Provider Group
- 7. Dr. Group in CAPS RC-CARD
- 8. Click F9
- 9. Click RCH Cardiology & Green √ on right
- 10. Click printer, OK (this only gives one page)
- 11. Click Printer Icon at top of screen
- 12. Click Print ALC

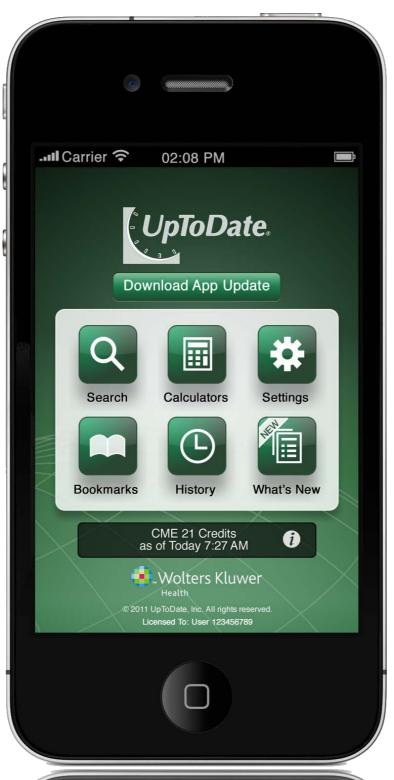
Opportunity



80%

Use a smartphone in daily practice

UpToDate



Personal Subscription

UpToDate Anywhere
Institutional Subscription

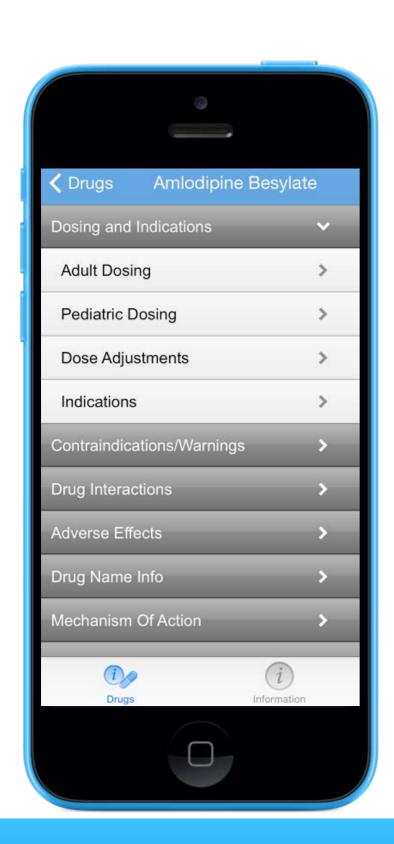
UpToDate Values



- Summaries
- Evidence
- Actionable

Micromedex

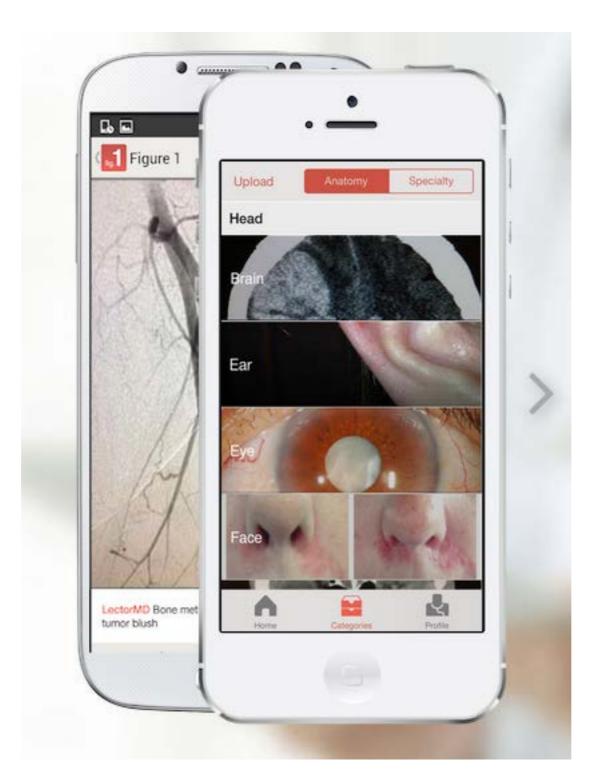




Institutional subscriptions

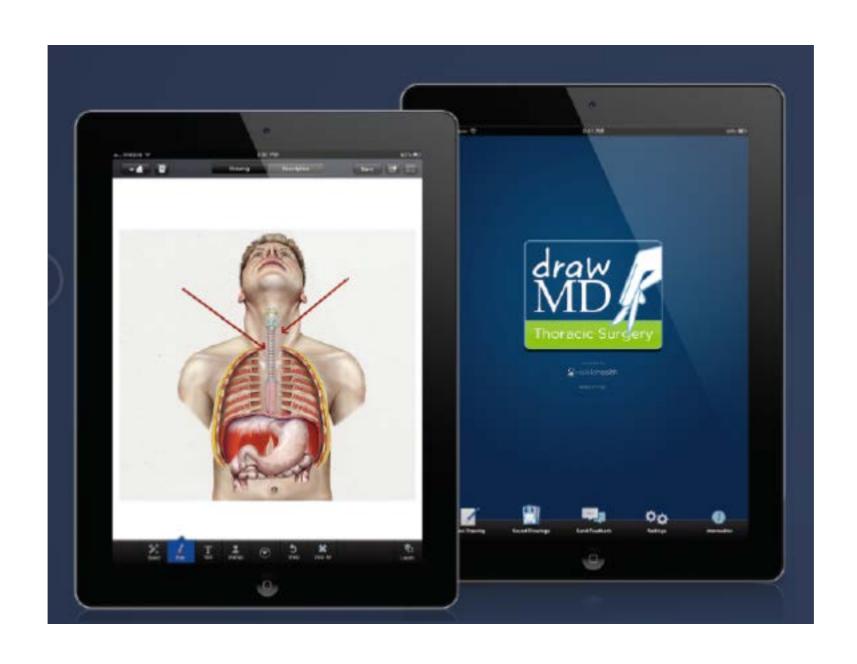
Figure1





DrawMD





Solution

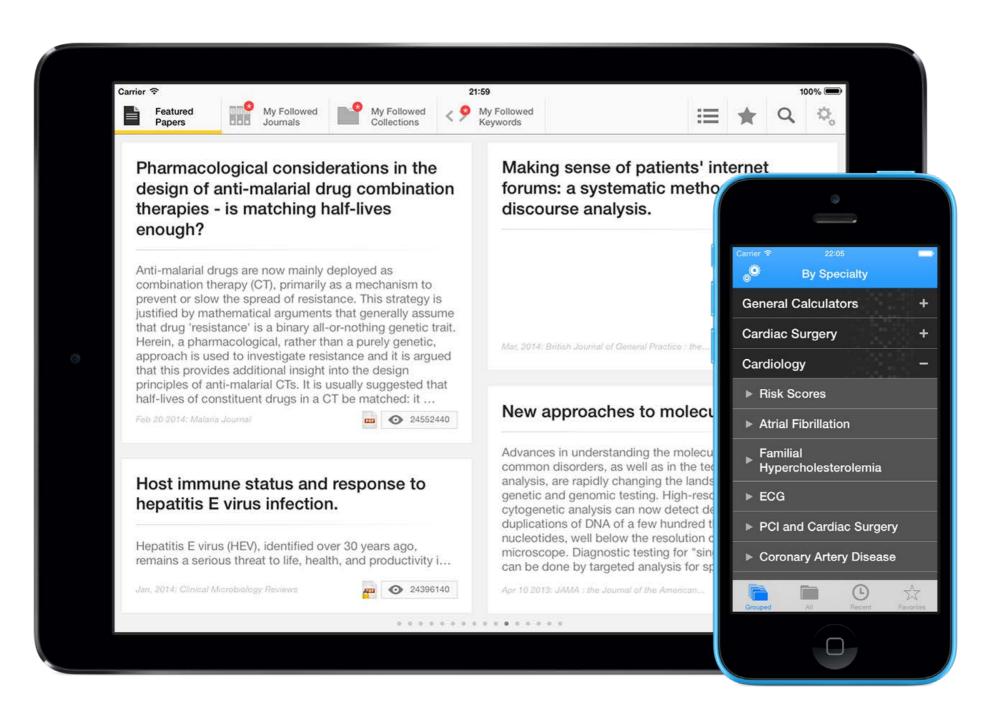


- Automated discovery and delivery of the most important research directly to physicians
- Provide a platform for easy sharing and discussion of published papers
- Provide a decision support tool for MDs at the point of care

Save Time Learn Improve Care

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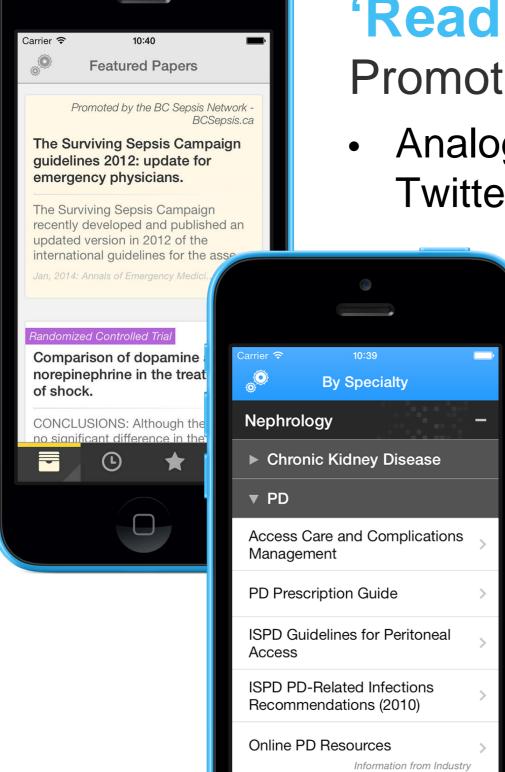




'Read'
Personalized
Medical Journal

'Calculate'
Decision
Support Tool

KT Using "Native Advertising"



'Read'

Promoted Research

Analogous to Facebook Sponsored Stories & **Twitter Promoted Tweets**

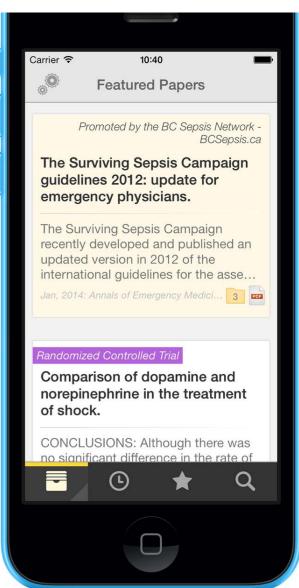
'Calculate'

Digital Interactive Tools

Help clinicians prescribe therapy, follow guidelines and raise disease awareness

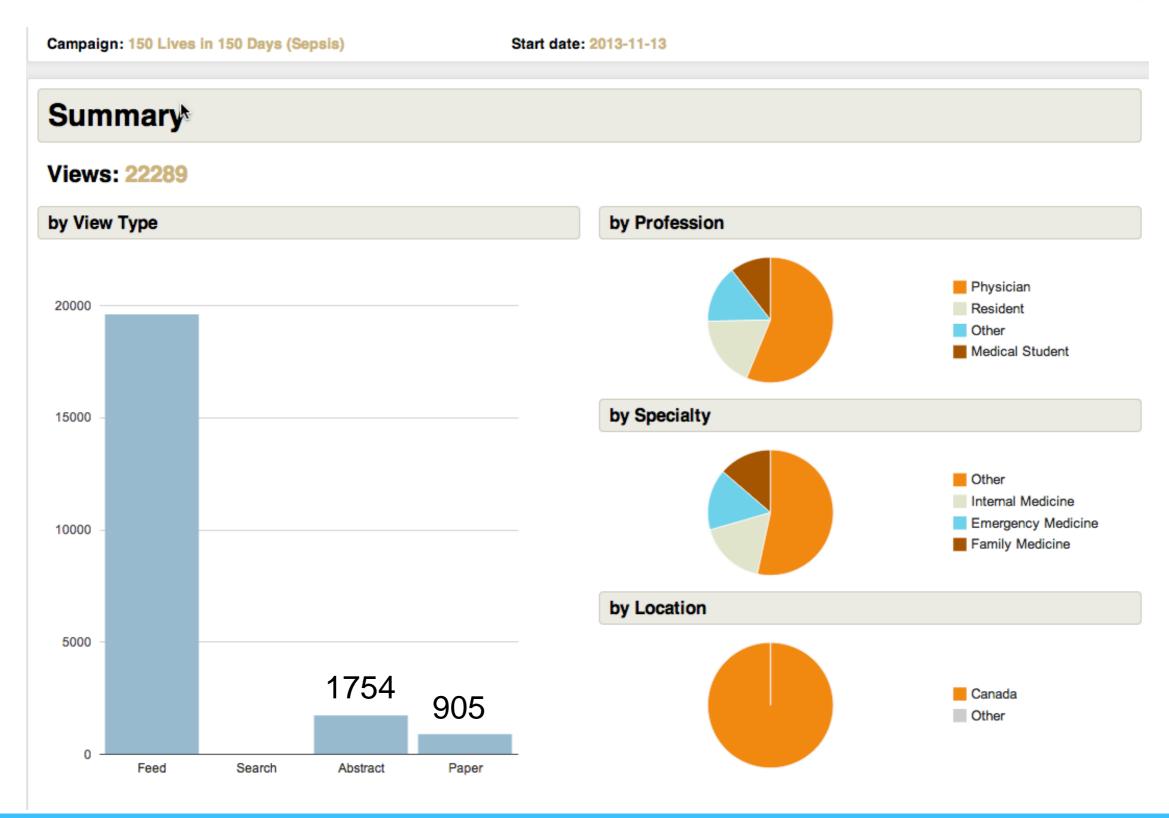
BC Patient Safety & Quality Council + BC Sepsis Network

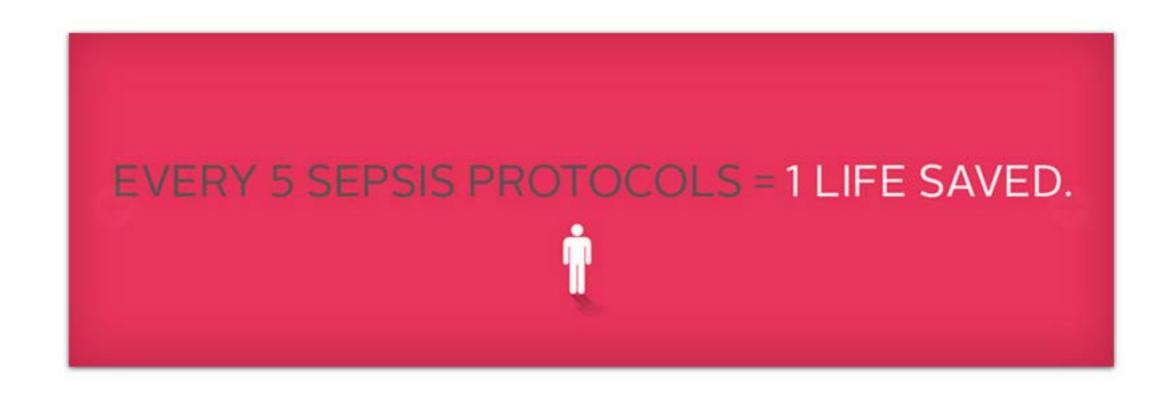
- Challenge: Increase adherence to evidencebased guidelines in sepsis
- Campaign: 150 Lives in 150 Days
- QxMD: Disseminated evidence and guidelines to support sepsis care in BC



Results











Clin J Am Soc Nephrol. 2010 Jan;5(1):72-9. doi: 10.2215/CJN.03860609. Epub 2009 Dec 3.

Predicting six-month mortality for patients who are on maintenance hemodialysis.

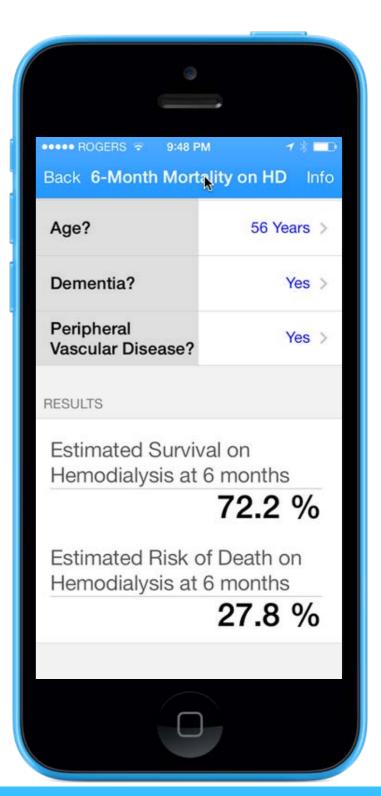
<u>Cohen LM</u>¹, <u>Ruthazer R</u>, <u>Moss AH</u>, <u>Germain MJ</u>.



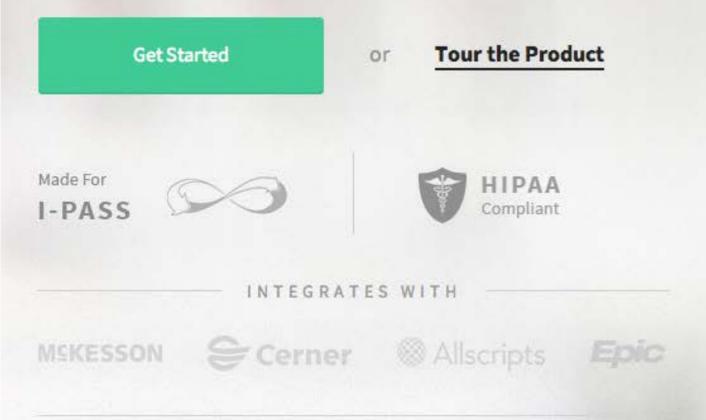
http://qxmd.com/r/19965531

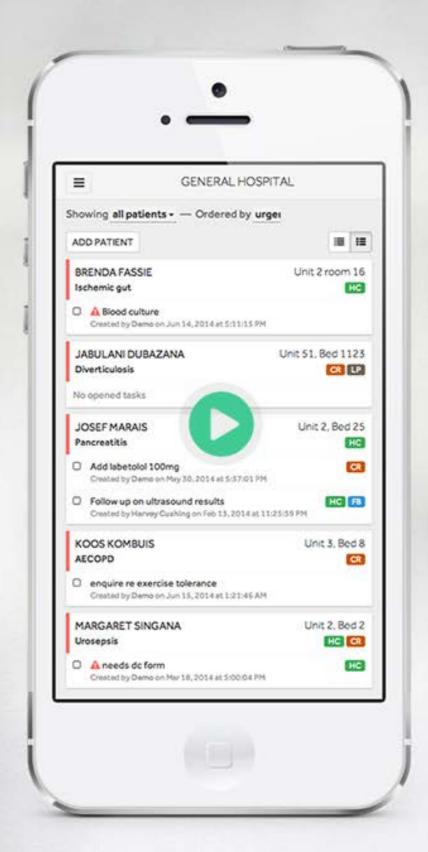
17K/year

Clinicians, via iPhone, iPad, Android, Web



Your team and your patients on your phone — all the time.

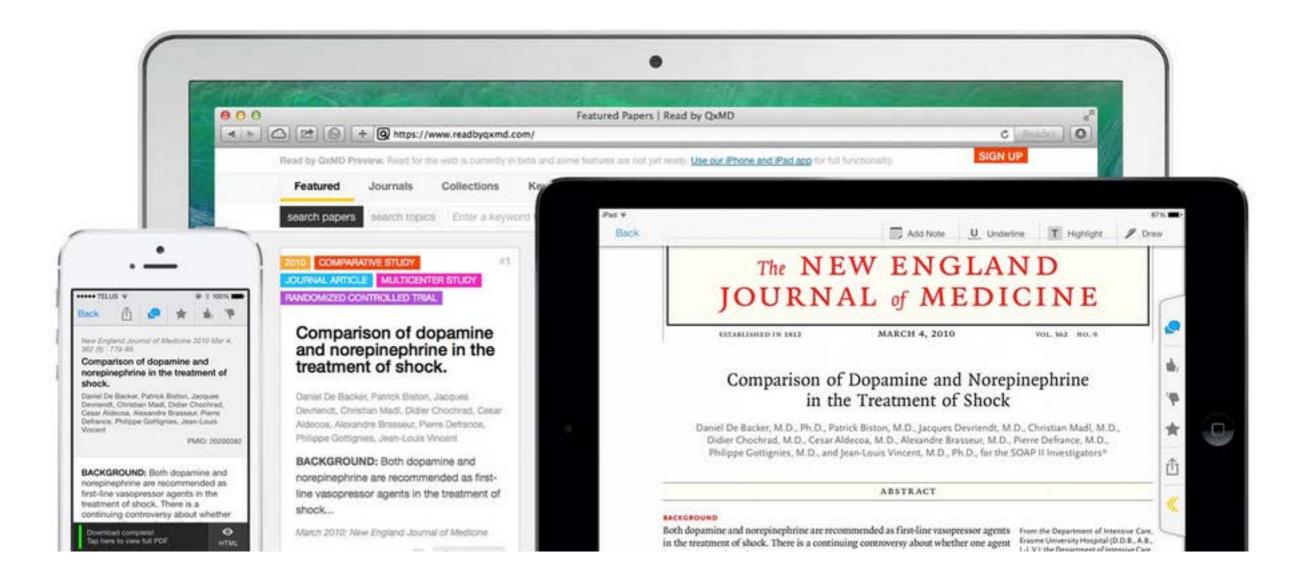






Read: qxmd.com/read





Personalized Medical Journal

Recommendation engine provides targeted clinical information to physicians

Inspired



"Essential" + "New & Noteworthy" - Featured by Apple in the App Store



"The Best Health and Fitness Apps"



"Redefining Medicine with Apps and iPad"



"Most Innovative" + "Top Medical App"







I am amazed. Utterly amazed at the quality, the finish and scope of this application. This could be the best application to stay up-to-date in medicine since, well, UptoDate. And UptoDate is around \$500 a year. This is free. Incredible.

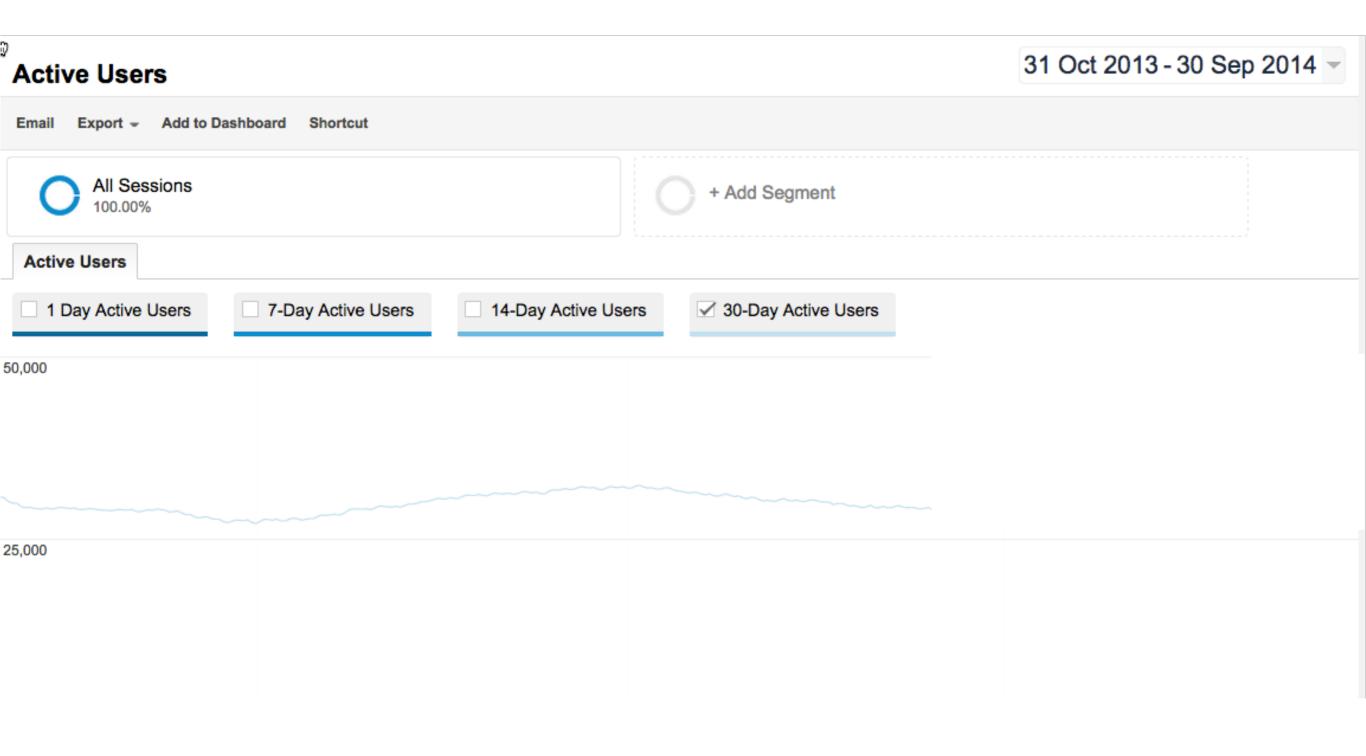


Play Flipboard for Medical Journals

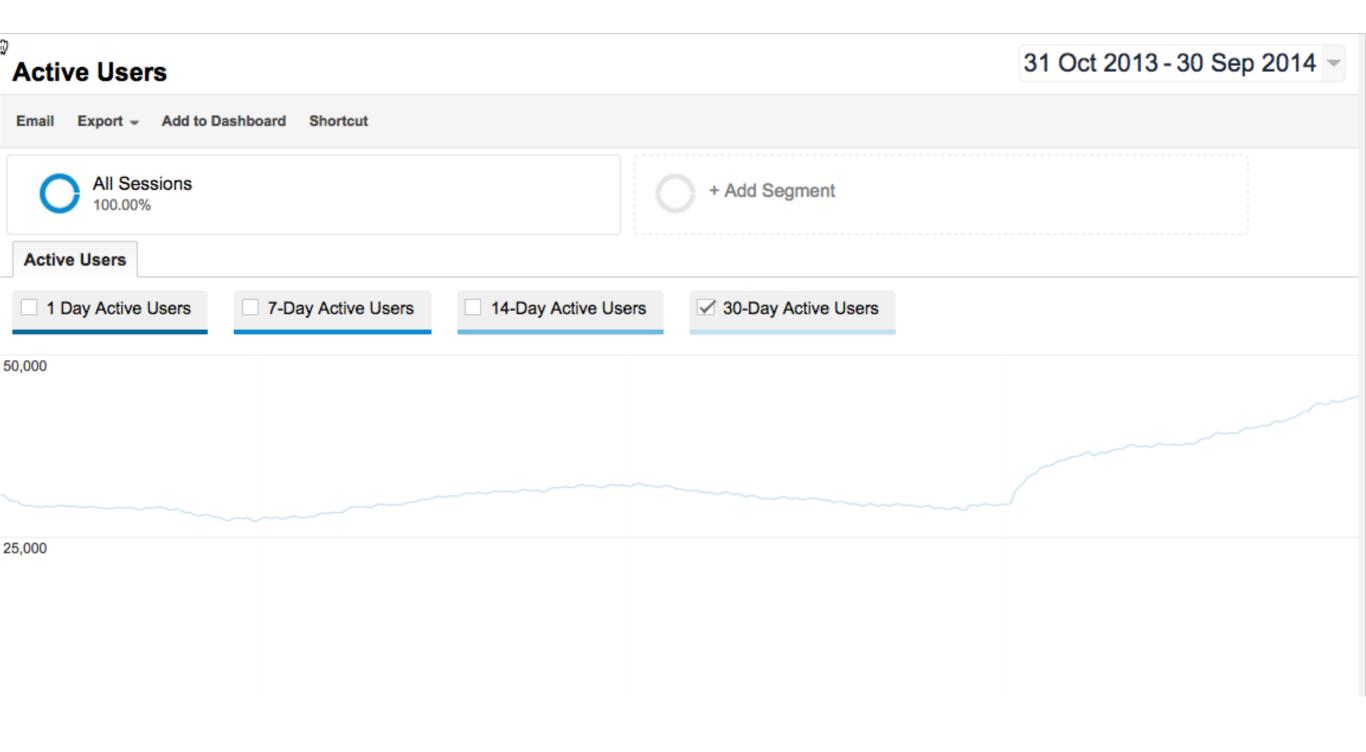


This is by far the most effective and efficient way to stay updated with medical literature. It also logs me in directly to my library logon and enables me to download and store PDF files of the articles. I can also share them on social media. If you are a scientist or clinician, it's a must have! (Reviewer professional designation: PharmD, MSPH, CDE)









Email



□ Read by QxMD

A/B test outgoing journal emails, subject line D and E

	Rationale for 2 tags per email is so we can compare Journal emails vs ot emails AND compare various subject lines for Journal emails	her
9	A/B Test Email Recapture	
✓	Asssign 50% of emails a 2nd tag "Journal - Subject C	SB
✓	Assign 50% of emails a 2nd tag "Journal - Subject D	SB
✓	Subject Line C = Latest articles from tracked journals Read by QxMD	SB
✓	Subject Line D = Most recent articles from tracked journals Read by QxMD	SB
✓	Review various subject line performance and pick winner, then launch new variation Sep 16, 2013	DS

Keep 50% emails with 2nd tag "Journal - Subject D" + change 50%

Subject Line E = Electronic Table of Contents for Journals | Read by

SB

SB

Nov 7, 2013 DS

"Journal - Subject C" to Journal - Subject E"

Compare Subject line D and E and pick winner, then

QxMD

launch new version

OPENED CLICKED

59.16%
726,690

8.70%
106,858

Email



Read by QxMD

My Keywords

pain control

Effects of hydroxychloroquine on symptomatic improvement in primary Sjögren syndrome: the JOQUER randomized clinical trial.

Primary Sjögren syndrome is a systemic autoimmune disease characterized by mouth and eye dryness, pain, and fatigue. Hydroxychloroquine is the most frequently prescribed immunosuppressant for the syndrome. However, evidence regarding its efficacy is limited. To evaluate the efficacy of hydroxychloroquine for the main symptoms of primary Sjögren syndrome: dryness, pain, and..

Jul 16, 2014: JAMA: the Journal of the American Medical Association

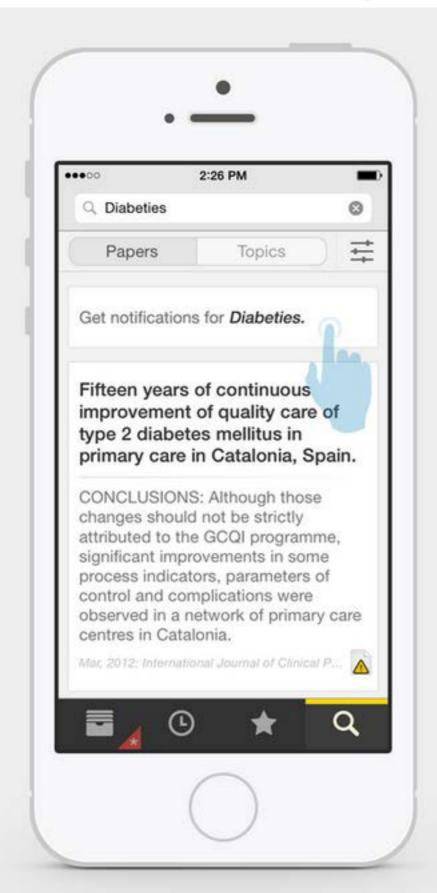
Telecare collaborative management of chronic pain in primary care: a randomized clinical trial.

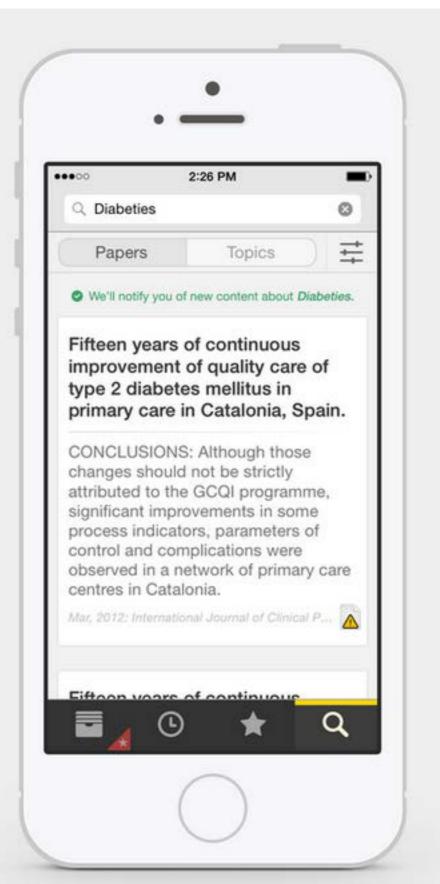
Chronic musculoskeletal pain is among the most prevalent, costly, and disabling medical disorders. However, few clinical trials have examined interventions to improve chronic pain in primary care. To determine the effectiveness of a telecare intervention for chronic pain. The Stepped Care to Optimize

Best Open %	85.28
Best Click %	KEYWORD 13.41

QxMD

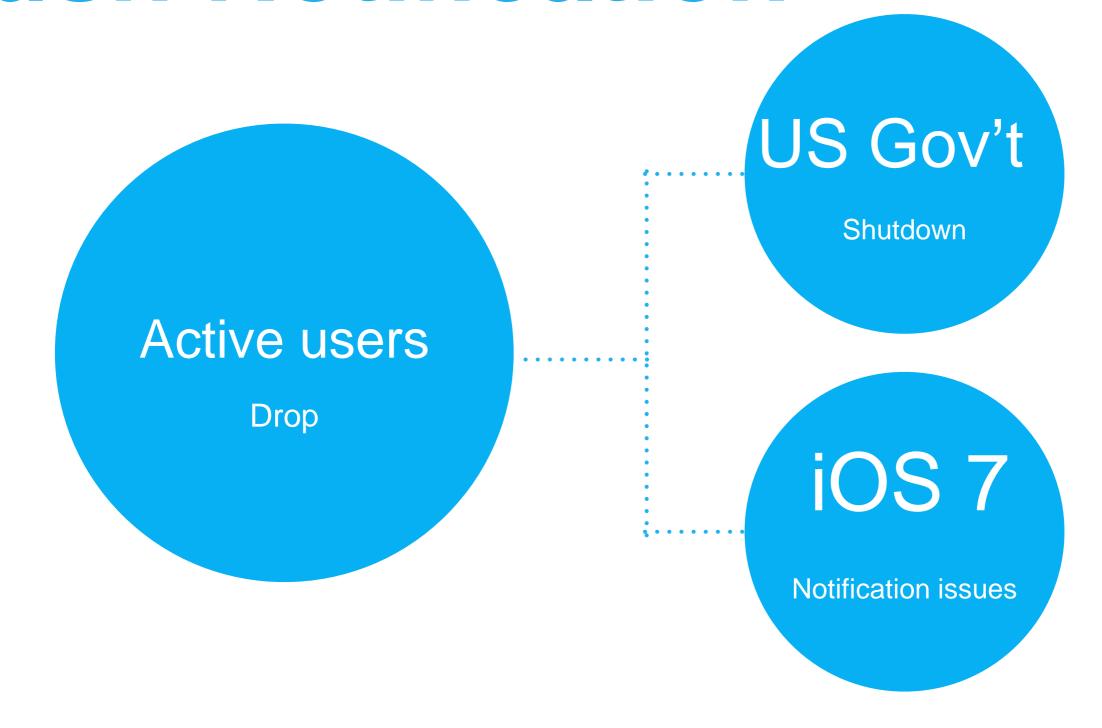
So drive keywords!







Push Notification



Push notification

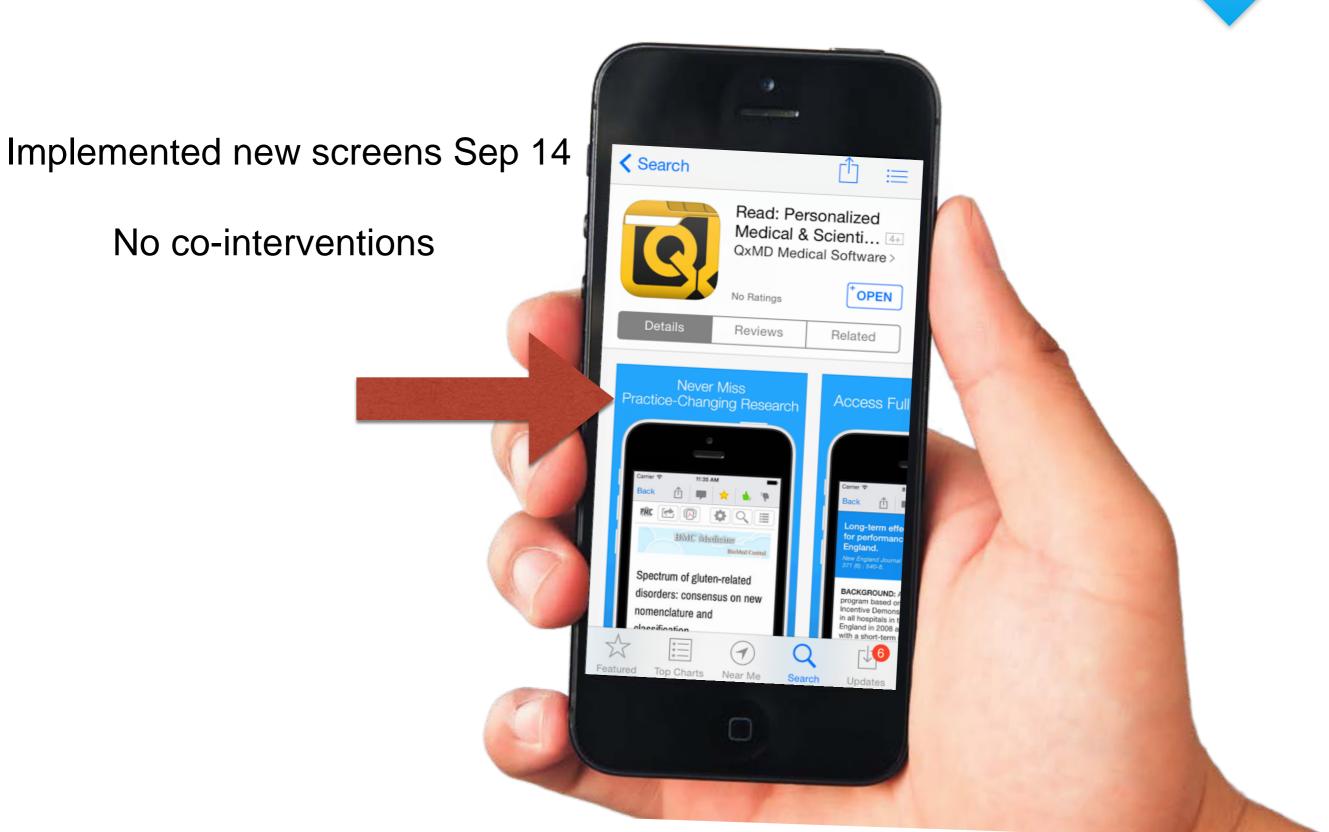


Natural Experiment

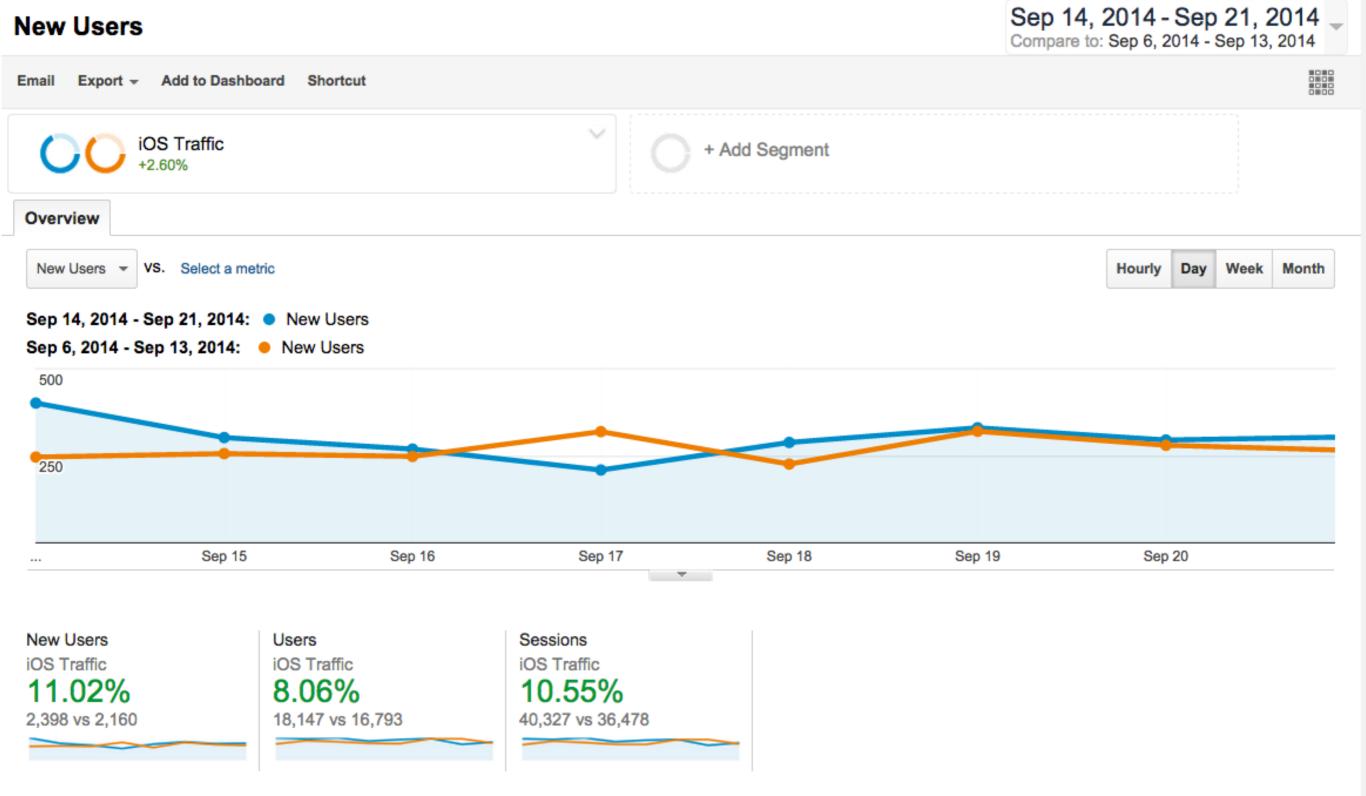
- Develop Hypothesis
- Trial more PNs

FFR	Breaking: Fractional Flow Reserve–Guided PCI for Stable Coronary Artery Disease (NEJM)	3	25176289	5651	0	1328	6979	Y	2014-09-05 05:16:09
Tuberculous Pericarditis	Breaking: Prednisolone and Mycobacterium indicus pranii in Tuberculous Pericarditis (NEJM)	3	25178809	19757	0	4690	24447	Y	2014-09-05 05:13:41
Lenalidomide	Breaking: Lenalidomide and Dexamethasone in Transplant- Ineligible Patients with Myeloma (NEJM)	3	25184863	1682	0	380	2062	Y	2014-09-05 05:11:24
myeloma	Breaking: Autologous Transplantation and Maintenance Therapy in Multiple Myeloma. (NEJM)	3	25184862	2061	0	1	2062	Y	2014-09-05 05:09:44
ACA	Breaking: Subsidies and the survival of the ACAdivided decisions on premium tax credits. (NEJM)	3	25075618	34731	0	47	34778	Y	2014-09-05 05:08:20
Neprilysin	Breaking: Angiotensin-Neprilysin Inhibition versus Enalapril in Heart Failure. (NEJM)	3	25176015	25981	0	42	26023	Y	2014-09-02 18:58:49
COPPS-2	Trending: Colchicine for Prevention of Postpericardiotomy Syndrome and Postoperative Atrial Fibrillation: The COPPS-2 Randomized Clinical Trial. (JAMA)	3	25172965	16204	0	14	16218	Y	2014-09-02 05:08:01
Pain in Older patient	Trending: Management of Persistent Pain in the Older Patient, A Clinical Review (JAMA)	3	25157726	920	0	0	920	Y	2014-09-02 05:05:17
Self-titration BP	Trending: Effect of self-monitoring and medication self- titration on systolic blood pressure in hypertensive patients at high risk of cardiovascular disease (JAMA)	3	25157723	32678	0	11	32689	Y	2014-09-02 05:03:52
DVT Thrombolysis	Breaking: Catheter-Directed Thrombolysis Plus Anticoagulation vs Anticoagulation Alone to Treat Lower- Extremity Proximal Deep Vein Thrombosis. (JAMA Intern Med)	3	25047081	797	0	2	799	Y	2014-09-02 04:59:21
Minutes per day.	Been busy? Keep up with the latest research with Read in only minutes per day.	4		46729	0	30	46759	Y	2014-09-01 14:39:08
Behavioural Counselling	Breaking: Behavioral Counseling to Promote a Healthful Diet and Physical Activity for Cardiovascular Disease Prevention in Adults With Cardiovascular Risk Factors: USPSTF Recommendation Statement.	3	25155419	92124	0	44	92168	Y	2014-08-31 06:11:25
health reform subscription health policy	Health Reform and Changes in Health Insurance Coverage in 2014 (NEJM)	3	25054609	6158	0	5	6163	Y	2014-08-29 21:36:55
Health reform	Health Reform and Changes in Health Insurance Coverage in 2014 (NEJM)	3	25054609	334	0	0	334	Y	2014-08-29 21:35:58
Adenoma removal	Breaking: Long-Term Colorectal-Cancer Mortality after Adenoma Removal (NEJM)	3	25162886	15721	0	29	15750	Y	2014-08-29 21:33:48
QALY 50K	Perspective: Updating cost-effectivenessthe curious resilience of the \$50,000-per-QALY threshold.	3	25162885	91916	0	32	91948	Y	2014-08-29 14:33:29
ESC ESA	Trending: 2014 ESC/ESA Guidelines on non-cardiac surgery: cardiovascular assessment and management	3	25086026	4153	0	0	4130	Y	2014-08-28 03:38:22

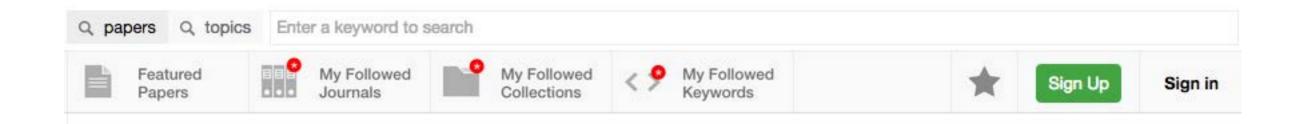


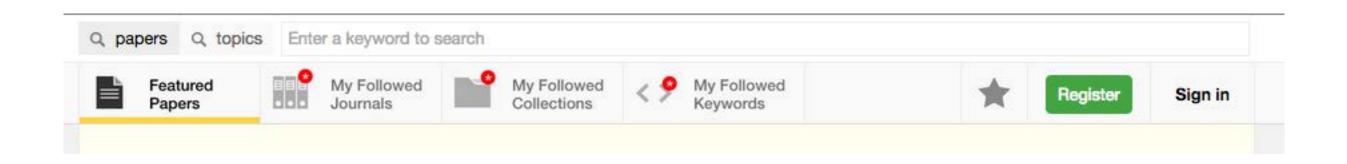


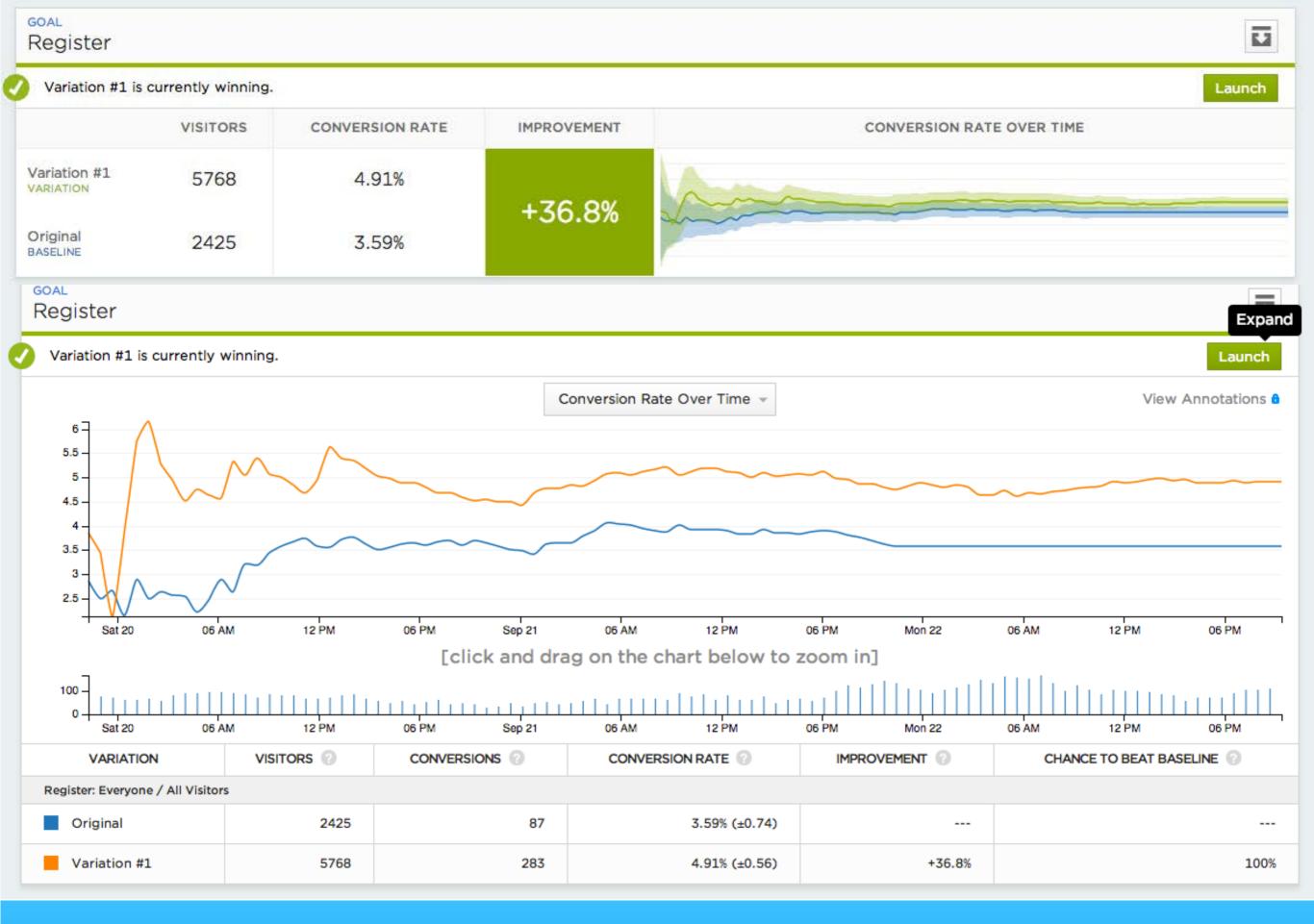




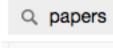












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Evolutionary rescue in a changing world

Stephanie M Carlson, Curry J Cunningham, Peter A H Westley

Trends in Ecology & Evolution 2014, 29 (9): 521-530











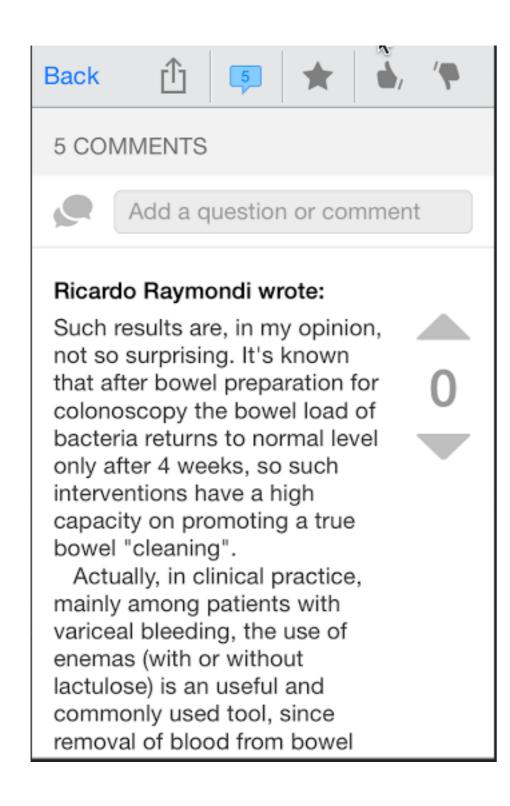


Evolutionary rescue occurs when adaptive evolutionary change restores positive growth to declining populations and prevents extinction. Here we outline the diagnostic features of evolutionary rescue and distinguish this phenomenon from demographic and genetic rescue. We then synthesize the rapidly accumulating theoretical and experimental studies of evolutionary rescue, highlighting the demographic, genetic, and extrinsic factors that affect the probability of rescue. By doing so, we clarify the factors to target through management and conservation. Additionally, we identify several putative cases of evolutionary rescue in nature, but conclude that compelling evidence remains elusive. We conclude with a horizon scan of where the field might develop, highlighting areas of potential application, and suggest areas where experimental evaluation will help to evaluate theoretical predictions.

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20% of all comments submitted, ever, came 14 days after design overhaul



