The Consumerization of Healthcare

A proprietary research study conducted by



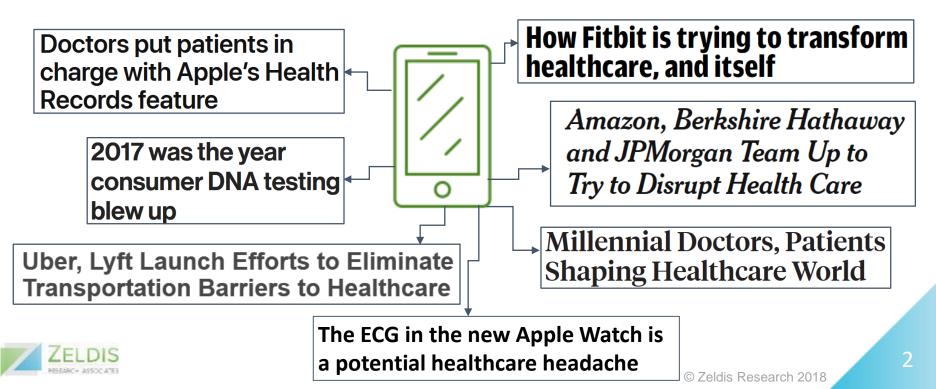
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Consumers taking a greater hand in managing and paying for their own health. PwC

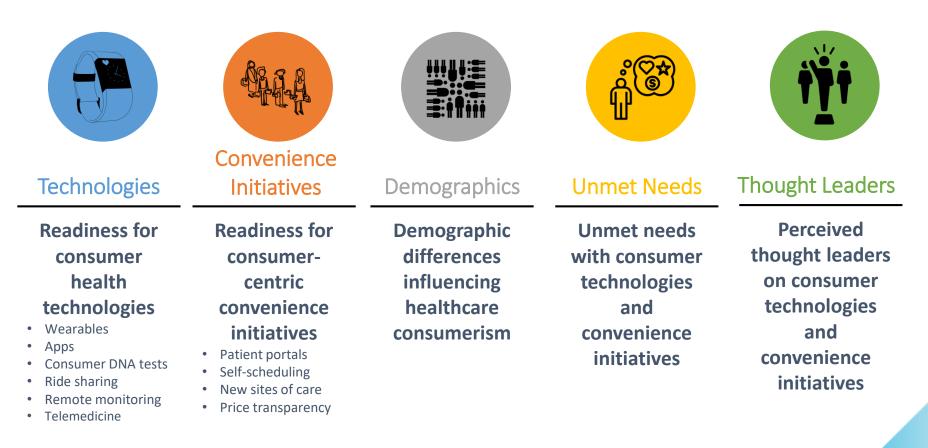
Patients treating their health care like a traditional consumer shopping experience. American Marketing Association

Recent news headlines





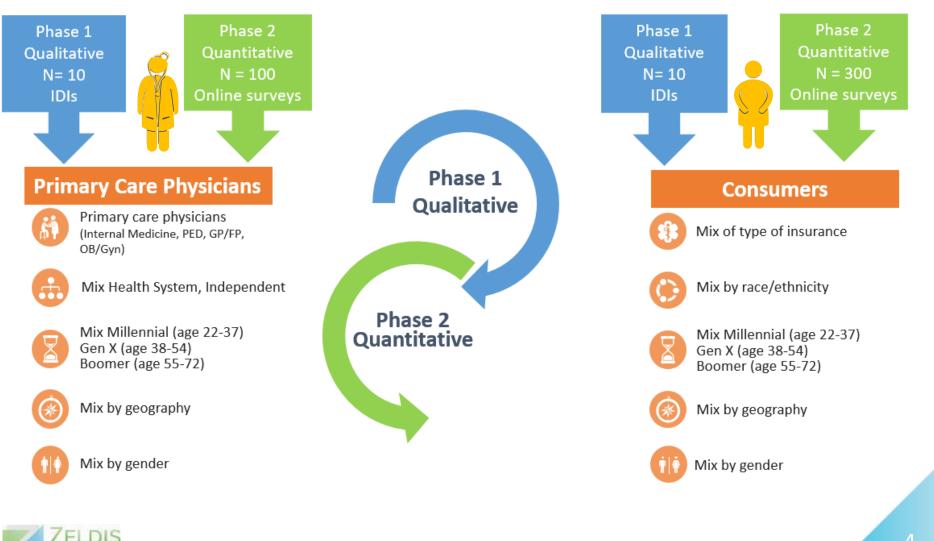
Explore the emerging state of healthcare consumerization:



Methodology

ESEARCH ASSOCIATES







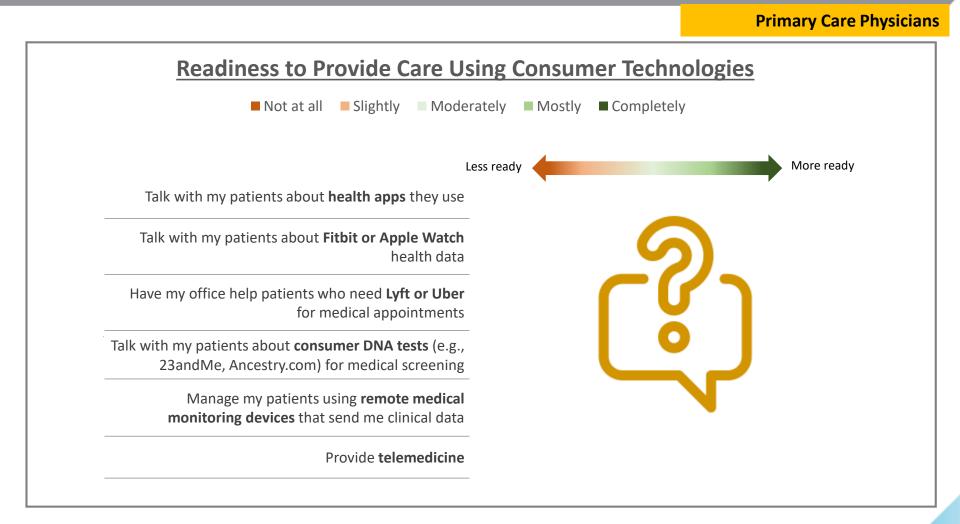
Detailed Findings

Primary Care Physicians (PCPs)

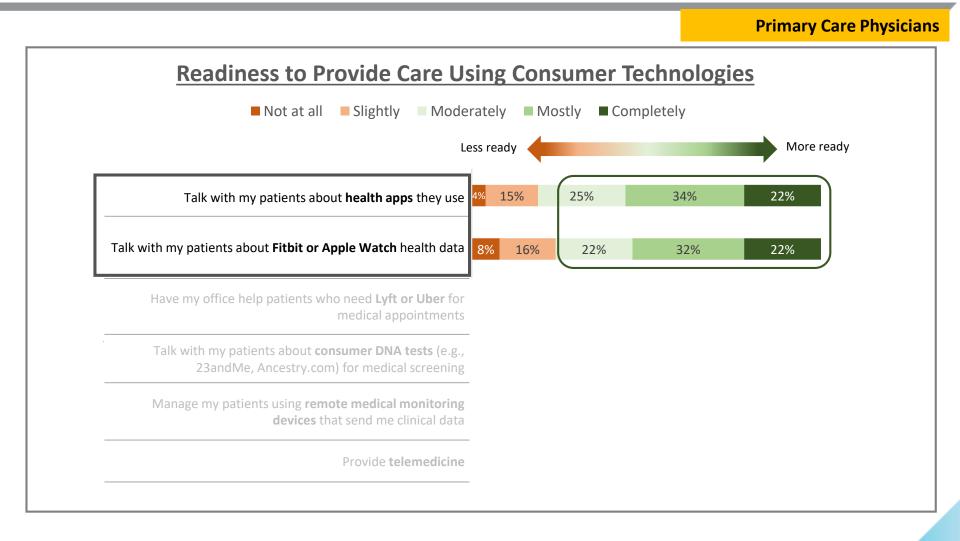




We asked PCPs about their readiness to use consumer technologies to care for their patients...





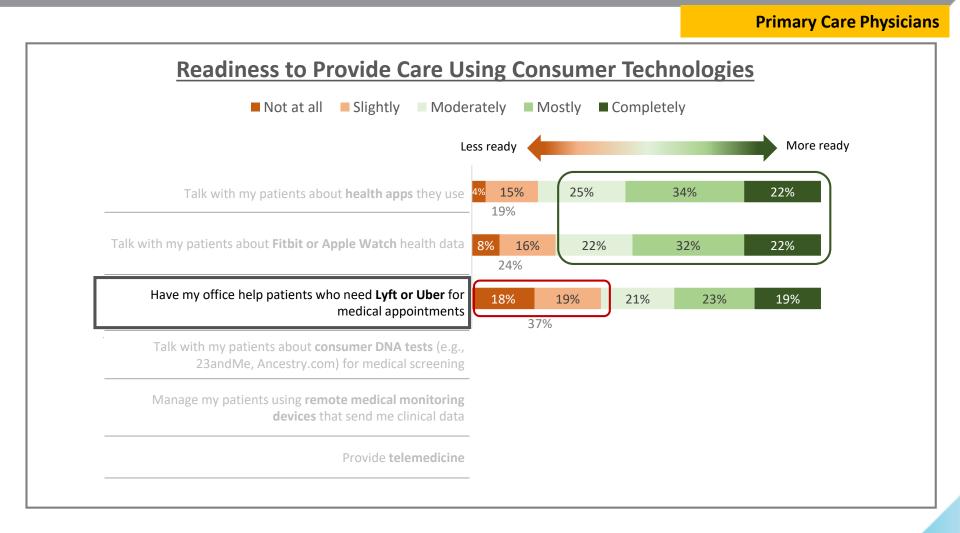




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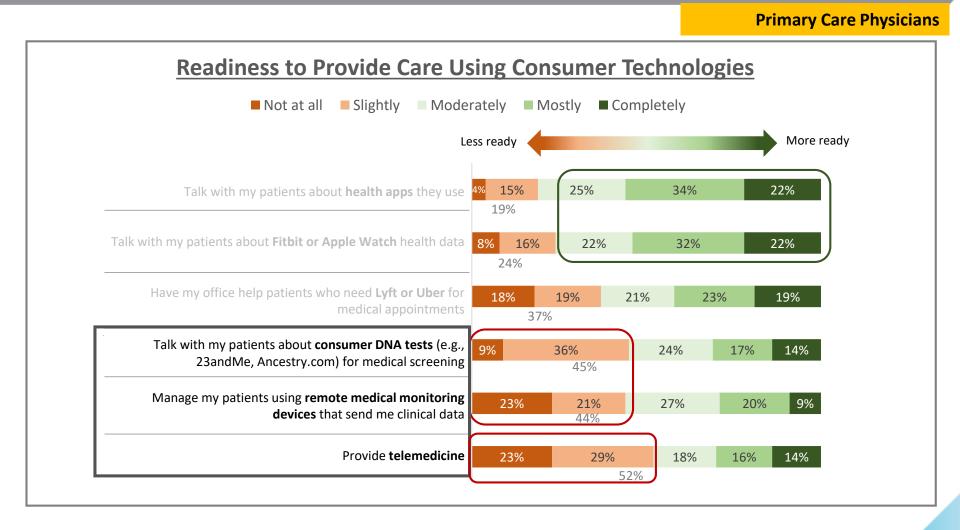
They feel less ready to help patients who need **Lyft or Uber** for medical appointments.





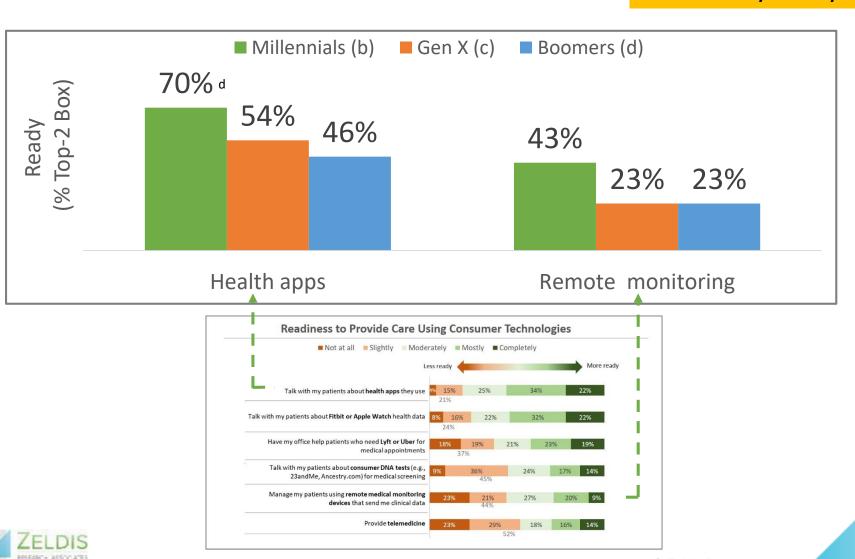


And roughly half are not yet ready for **consumer DNA testing**, **remote monitoring devices** or **telemedicine**.





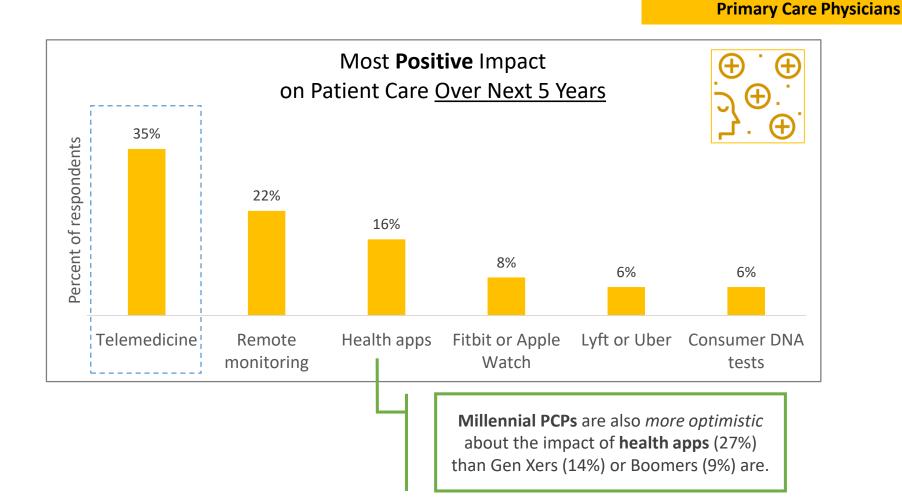
Millennial PCPs are much more ready for health apps and remote monitoring than their counterparts are.





Primary Care Physicians

Interestingly, PCPs are *most excited* about the future of **telemedicine** -- despite being *least* ready to provide it now.





Q203. Over the next 5 years, which one of these tools, if any, will have the most positive impact on the care of your patients? Base = 100 PCPs (30 Millennials, 35 Gen X, 35 Boomers). 7% say none of these.

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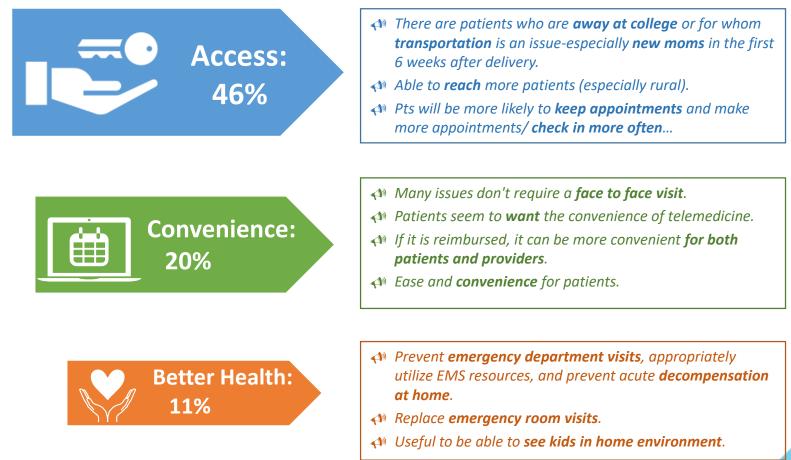


PCPs optimistic about **telemedicine** are excited that it offers more *access, convenience and better health*.



Primary Care Physicians

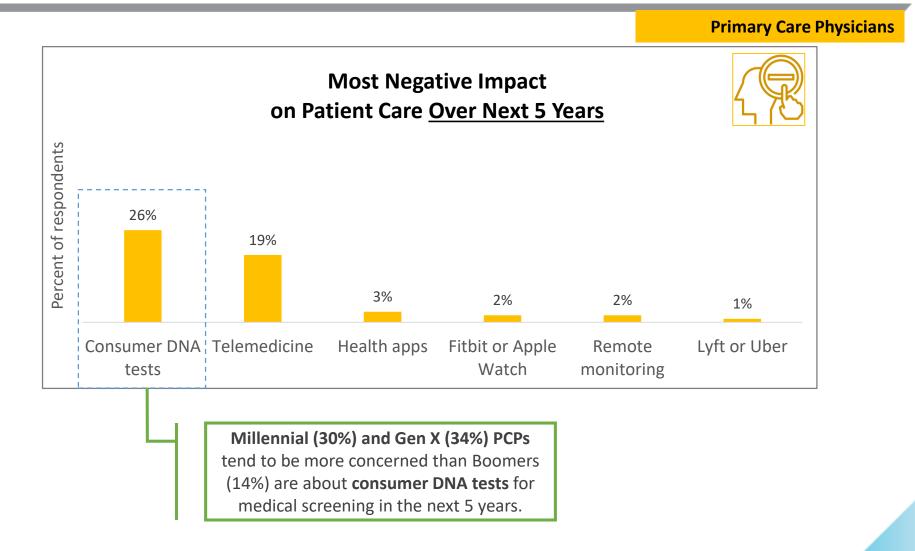
Top Reasons <u>Telemedicine</u> Will Have the Most Positive Impact Over the Next 5 Years





Q204. Please describe why you think telemedicine will have a positive impact over the next 5 years? Base = 35 PCPs selecting telemedicine as the tool that will have the most positive impact on patient care in the next 5 years.

Conversely, PCPs are *most concerned* about **consumer DNA tests** impacting their practice over the next 5 years.





Q205. Over the next 5 years, which one of these tools, if any, will have the most negative impact on the care of your patients? Base = 100 PCPs (30 Millennials, 35 Gen X, 35 Boomers). 47% say none of these.



PCPs concerned about **consumer DNA tests** are worried about having *proper guidance and good data quality*.



Primary Care Physicians

Top Reasons <u>Consumer DNA Tests</u> Will Have the <u>Most Negative</u> Impact Over the Next 5 Years



- We don't know what to do with the information yet
- (1) Too nebulous and difficult to counsel
- The commercial tests don't supply genetic counseling and are not a substitute for non commercial testing
- Patients don't know what to do with for. Doctors won't know enough what to do with the results. Leads to unnecessary visits, wasted resources.



- *∢ Questionable validity*.
- False sense of security. For example, a woman will be told she is BRCA negative yet not enough of the mutations have been tested and she could still be positive for less common mutations. She thinks she is clear and her children are not at risk.



Q206. Please describe why you think consumer DNA tests for medical screening in primary care will have a negative impact over the next 5 years? Base = 26 PCPs selecting consumer dna test as the tool that will have the most negative impact on patient care in the next 5 years. Base <30 interpret with caution.

As a new consumer health device, the **Apple Watch with an ECG monitor** garners initial **mixed reactions** from PCPs.



Primary Care Physicians

Impact of New Apple Watch ECG Monitor on Your Primary Care Practice Both a positive and a negative 33% A third of PCPs expect the new impact consumer device will have both a positive and negative impact on A positive impact 25% their practice. No impact 19% A negative impact 9% Do not know enough yet 14% Percent of respondents



Q404. In your opinion, will the new Apple Watch ECG monitor have a positive impact, negative impact, both a positive and negative impact, or no impact on your primary care practice and discussions you have with patients? Base = 100 PCPs (30 millennials, 35 Gen X, 35 Boomers).

Surprisingly, millennial and Gen X PCPs have more mixed reactions to the Apple Watch ECG monitor than Boomers.

Primary Care Physicians

Monitor on Your Primary Care Practice Millennial Gen X Boomer (b) (c) (d) Both a positive and a negative 33% Positive and impact 40% 37% 23% negative A positive impact 25% 17% 40%^{bc} Positive 17% No impact 23% 17% 17% No impact 19% 9% Negative 13% A negative impact 9% Not know 13% 23% enough yet Do not know enough yet 14% Percent of respondents





Q404. In your opinion, will the new Apple Watch ECG monitor have a positive impact, negative impact, both a positive and negative impact, or no impact on your primary care practice and discussions you have with patients? Base = 100 PCPs (30 millennials, 35 Gen X, 35 Boomers).

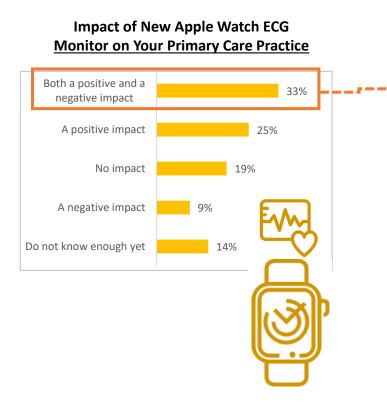


PCPs' <u>mixed reactions</u> center on **data accuracy** concerns versus hopes for **better patient health**.



Primary Care Physicians

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Inaccurate 64%

There will be false positives and false negatives with this watch.

Why Both Positive and Negative

- Do expect glitches to occur.
- Will likely have many false positives causing patient stress and added office visits unnecessarily.

Better health 46%

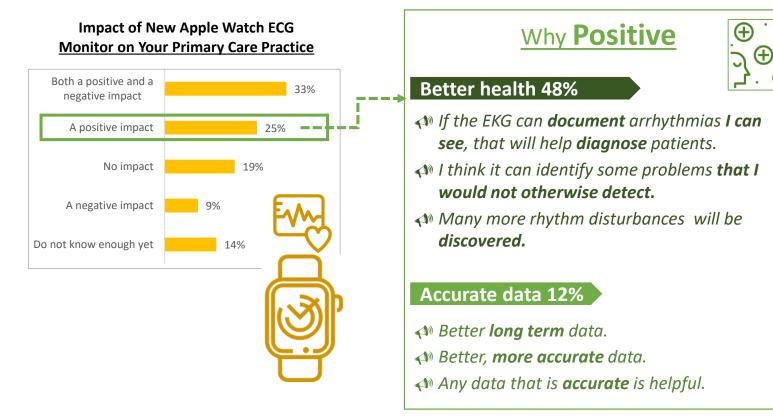
- May help pick up a few cases of abnormalities that are real but probably more false concerns.
- It may identify problems earlier, but may also lead to false positives.



PCPs' <u>positive reactions</u> are mainly based in a belief it will lead to **better patient health**.



Primary Care Physicians



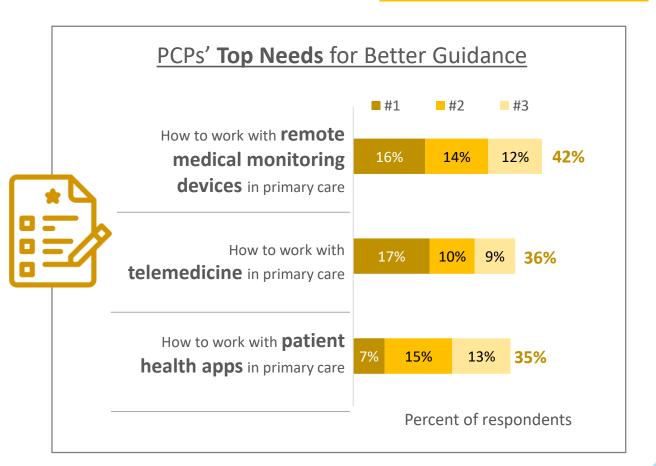


PCPs most <u>want guidance</u> on using **remote medical devices**, **telemedicine** and **patient health apps** in primary care.



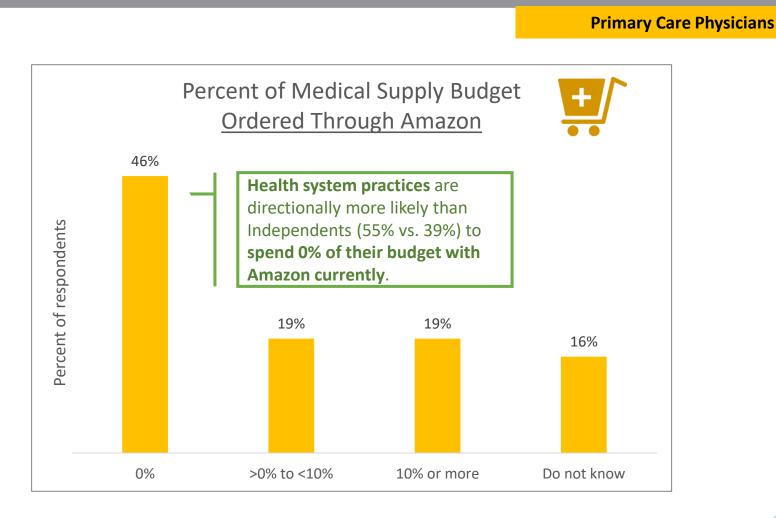
Primary Care Physicians

Need for Guidance	%	_
Remote medical monitoring devices	42%	'
Telemedicine	36%	
Patient health apps	35%	
Consumer DNA tests	29%	
Patient cost estimator for Rx drugs	26%	
Fitbit or Apple Watch health data	23%	
Patient cost estimate for medical procedures	23%	
Patient registration tablets	21%	
Patient self-scheduling apps	20%	
Lyft or Uber for medical appointments	12%	
Patient registration kiosks	12%	





About half of PCP practices **currently order 0%** of their medical supply budget **from Amazon**.



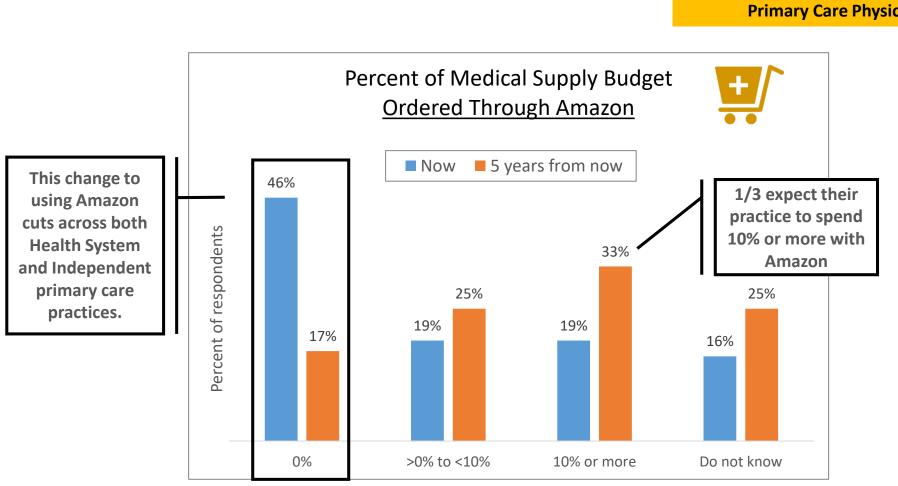


Q406. Now, please think about medical supplies ordered for your primary care practice (through your own office or your health system). What percent of your practice's medical supply budget, if any, is currently ordered through Amazon instead of medical supply distributors (e.g., Cardinal, Henry Schein, McKesson, Medline, Owens & Minor, etc.)? <u>Please exclude office supplies and prescription medicines/vaccines; this question is just about medical supplies</u>. Your best

estimate is fine. Response options are ranges, not an open-end. Base = 100 PCPs.



5 years from now, most PCPs expect their practices will be spending more of their medical supply budget with Amazon.



Q406. Now, please think about medical supplies ordered for your primary care practice (through your own office or your health system). What percent of your practice's medical supply budget, if any, is currently ordered through Amazon instead of medical supply distributors (e.g., Cardinal, Henry Schein, McKesson, Medline, Owens & Minor, etc.)? Please exclude office supplies and prescription medicines/vaccines; this question is just about medical supplies. Your best estimate is fine. (Response options are ranges, not an open-end.) Base = 100 PCPs.



Q407. Five years from now, what percent of your practice's medical supply budget, if any, do you think will be ordered through Amazon instead of medical supply distributors (e.g., Cardinal, Henry Schein, McKesson, Medline, Owens & Minor, etc.)? Again, please exclude office supplies and prescription medicines/vaccines; this question is just about medical supplies. Your earlier answer is shown below in column A, reflecting the current percent ordered through Amazon. Your best estimate is fine. © Zeldis Research 2018 (Response options are ranges, not an open-end.) Base = 100 PCPs.



Primary Care Physicians



Detailed Findings

Consumers

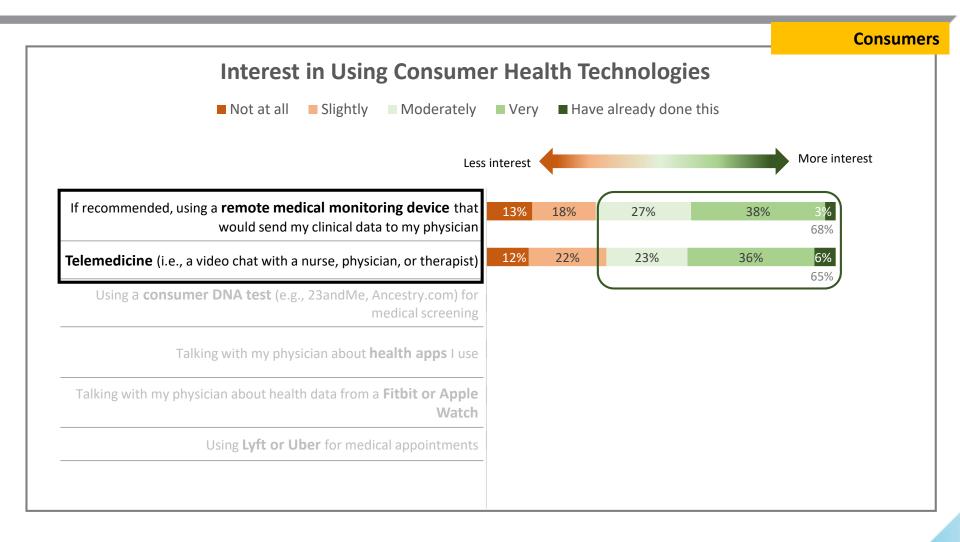


We also asked consumers about their interest in consumer health technologies...



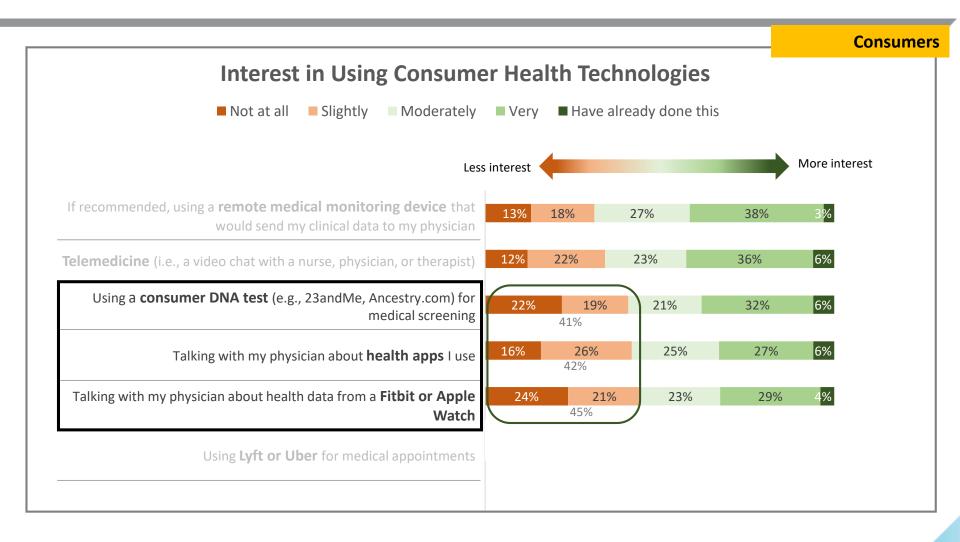


Most consumers (like PCPs) are interested in a **remote monitoring device** and in **telemedicine** for their health.





However, interest is split in **consumer DNA testing**, or <u>talking</u> with a physician about **health apps, Fitbit or Apple Watch**.



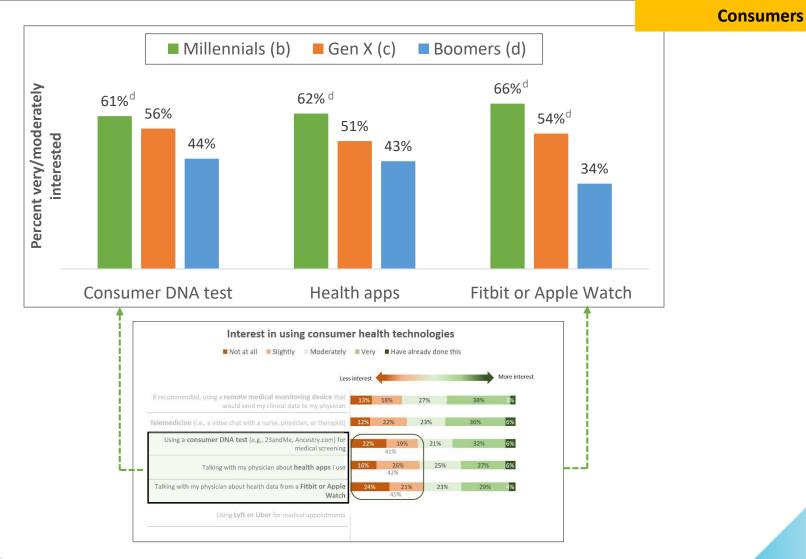


Q200. For each of the following activities, please indicate how interested you are in using it for your health or your family's health. If you have already used it before, please choose that option? Base = 300 consumers (100 Millennials, 100 Gen X, 100 Boomers).

The split is partly by generation, with **millennials** much more interested in these technologies (consumer DNA screening, or <u>talking with a physician</u>

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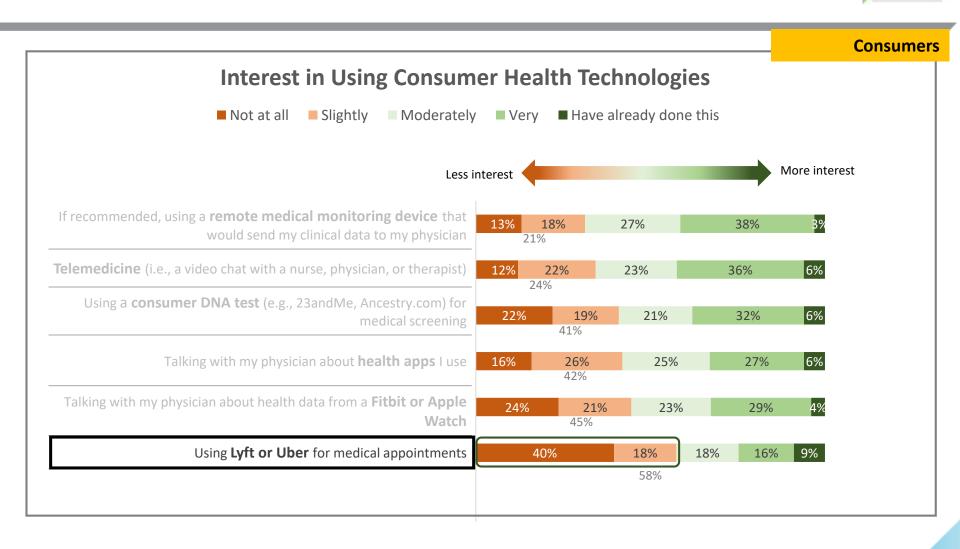
about health apps, Fitbit or Apple Watch).





Q200. For each of the following activities, please indicate how interested you are in using it for your health or your family's health. If you have already used it before, please choose that option? Base = 300 consumers (100 Millennials, 100 Gen X, 100 Boomers).

General interest is lowest for using **Lyft or Uber** for medical appointments.

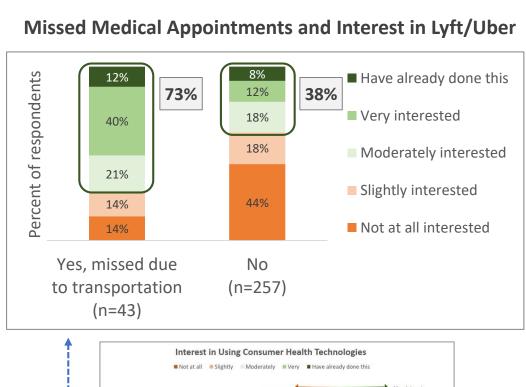




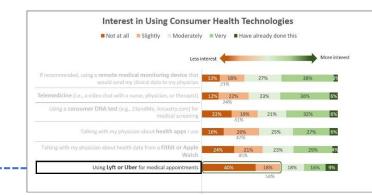
However, ridesharing interest is very high among consumers who have ever missed a medical appointment or not seen a doctor because they did not have transportation.











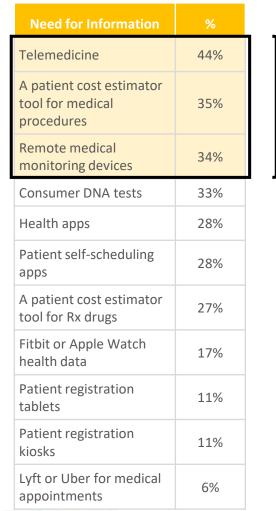


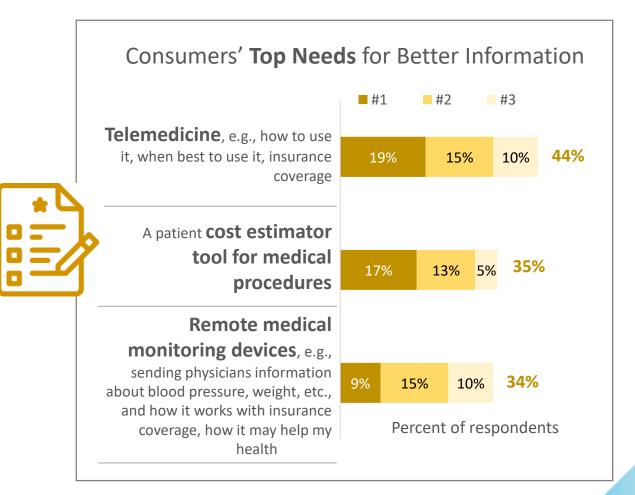
Q504c. Have you ever missed a medical appointment or not seen a doctor because you did not have transportation? Base = 43 Yes, 257 No. Q200. For each of the following activities, please indicate how interested you are in using it for your health or your family's health. If you have already used it before, please choose that option? Base = 300 consumers (100 Millennials, 100 Gen X, 100 Boomers).

Consumers most <u>want information</u> on **telemedicine**, estimating medical procedure costs, and remote medical devices.



Consumers





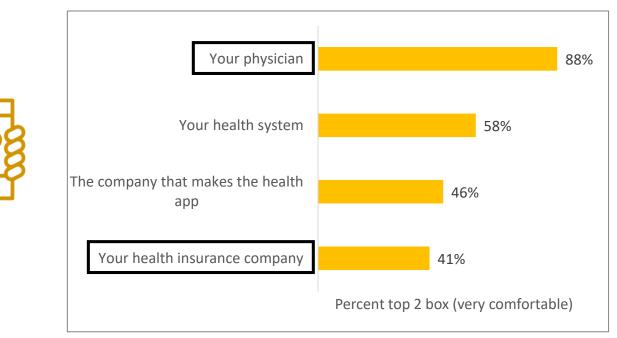


Q400. From the list below, please select the top 3 areas where you wish you had better information? Base = 300 consumers (100 millennials, 100 Gen X, 100 Boomers).

Many consumers trust their physician, but are relatively reluctant to share their health app information with **their health insurer**.



Consumers



Comfort Sharing Health App Information with Sources

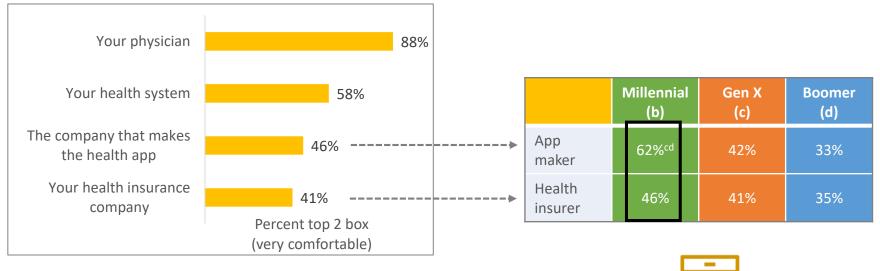


Q402. If you had information about your fitness in an app (e.g., steps, distance, calories burned, active minutes, stairs climbed, and sleep), how comfortable would you be sharing it with each of the following organizations/people to learn if they had programs that might help you with your fitness goals? Base = 300 consumers (100 Millennials, 100 Gen X, 100 Boomers).

Millennials, in particular, credit a health app maker over their health insurer.



Consumers



Comfort Sharing Health App Information with Sources



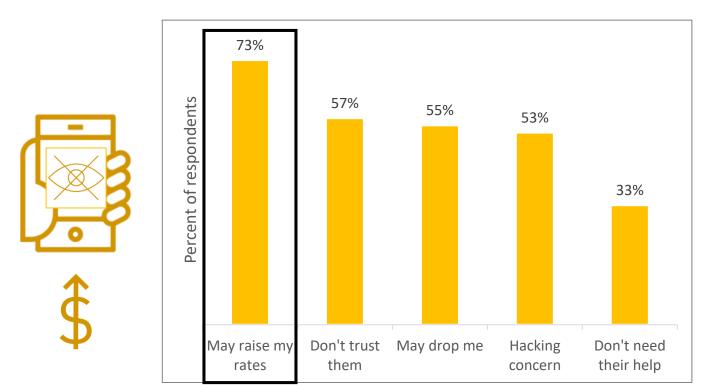


Q402. If you had information about your fitness in an app (e.g., steps, distance, calories burned, active minutes, stairs climbed, and sleep), how comfortable would you be sharing it with each of the following organizations/people to learn if they had programs that might help you with your fitness goals? Base = 300 consumers (100 Millennials, 100 Gen X, 100 Boomers).

Consumers worry that sharing health app data with their insurer may lead to **increased costs**.



Consumers



Reasons for Not Sharing Health App Data with Your Health Insurer



Q403. Why do you say you would <u>not</u> be very comfortable sharing fitness app information with your health insurer to learn if they had programs that might help you? (Please check all that apply.) Base = 95 consumers with bottom 2 box rating of comfort sharing app information with their health insurer.

Relatively few consumers **shop medical prices** now, but many are interested, particularly Gen Xers and millennials.





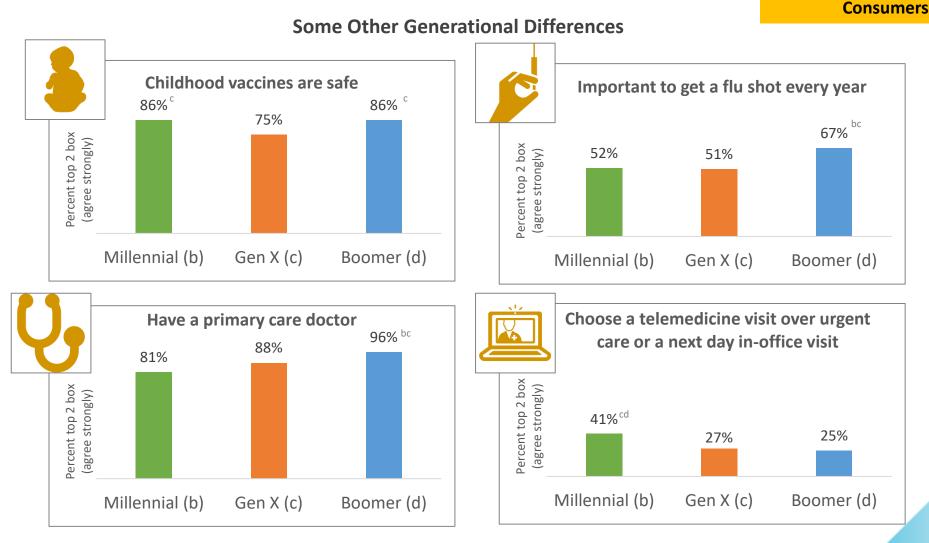


Q406. Now, please think about how interested you are in shopping around for the best price on different types of non-emergency medical care. By shopping around, we mean you check in some way to see if another source provides the same quality service at a lower cost. If you already do this now, please check that option. Base = 300 consumers (100 millennial, 100 Gen X, 100 Boomer). Top 2 box reflects moderately/very interested.

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There are several **other generational differences** that affect consumers' expectations for healthcare interactions.







Key Findings: Primary Care Physicians





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Nearly half of PCPs do <u>not</u> feel ready for telemedicine, consumer DNA tests or remote medical monitoring devices in primary care.



In contrast, they <u>do</u> feel ready to talk with patients about **health apps** or **wearable** health data -- particularly <u>millennial</u> PCPs do.



Of all the consumer health tools assessed, PCPs are most excited about the future of <u>telemedicine</u> <i>in primary care.

PCPs are interested in guidance on how to work in primary care with <u>telemedicine</u> and with <u>remote medical monitoring devices</u>.



Conversely, PCPs are most concerned about consumer DNA tests negatively impacting their practice over the next 5 years.

They are worried about <u>a lack of guidance</u> on how to counsel patients and about <u>inaccurate or incomplete data</u>.





As a new consumer health device, the Apple Watch with an ECG monitor garners <u>mixed</u> initial reactions from PCPs.

A third expect it will have both a positive <u>and</u> a negative impact on their practice, with concerns mainly about false positives, patient stress and added office visits.

5 years from now, most PCPs expect their practices will be spending a greater share of their medical supply budget with Amazon.

Both independent and health system practices expect they will migrate their spend from traditional medical supply distributors, e.g., Cardinal Health, Medline, etc.

amazon business

35

Key Findings: Consumers

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Like PCPs, most consumers are interested in telemedicine for their health.

Consumers are also interested in <u>remote medical monitoring devices</u> and want more information about how it and telemedicine may support their health.





Interest is mixed for consumer DNA testing, or talking with a physician about health apps, Fitbit or Apple Watch.

The split is partly by generation, with <u>millennials</u> much more interested in these consumer health technologies.

Interest in Lyft/Uber for medical appointments is very high among consumers with transportation problems.

1 in 7 consumers (14%) in our sample say they have missed a medical appointment or not seen a doctor because they did not have transportation.



Many consumers are relatively reluctant to share their health app information with their health insurer.

<u>Millennials</u>, in particular, feel more comfortable sharing this data with an app manufacturer over their health insurer.

Relatively few consumers shop medical prices now for prescriptions, diagnostics or procedures, even when they're not an emergency.



However, many are interested in doing so, particularly Gen Xers and millennials.



Thank you on behalf of:



For more information, please contact: Jeff Mann, Senior Research Director, Zeldis Research Jeff@ZeldisResearch.com | 609-737-7223, x217



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