



SO LONG STETHOSCOPE? NEW DEVICE, IPHONE ALTER EXAMS

Doctors develop new way to listen to body, could end 200 year reign of stethoscope

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SUGGESTED TEASE	STILL TO COME, IT'S BEEN A MAINSTAY IN MEDICINE FOR CENTURIES - BUT COULD THIS BE THE BEGINNING OF THE END FOR THE STETHOSCOPE? WE'LL SHOW YOU HOW IT COULD BE REPLACED - BY A SMARTPHONE AND A NEW DEVICE. THAT'S NEXT IN HEALTH NEWS.
ANCHOR LEAD	INVENTED IN 1816, THE STETHOSCOPE IS AN ICON OF MEDICINE, PLAYING A MAJOR ROLE IN DIAGNOSING. BUT ON THE VERGE OF ITS 200th ANNIVERSARY, THE STETHOSCOPE COULD BE ON ITS WAY OUT. HOPING TO IMPROVE ON THE CURRENT DESIGN AND CUT DOWN ON THE RISK OF INFECTIONS, DOCTORS HAVE COME UP WITH A NEW TAKE ON THE STETHOSCOPE... REPLACING IT WITH A SMARTPHONE AND A NEW DEVICE. CLARK POWELL HAS DETAILS.
	(Nats - Dr. Einhorn using traditional stethoscope on patient) :01
CG: Courtesy: Orlando Health Shots of doctor using stethoscope Shots of Dr. Bello in exam Close up of hand on patient	WHILE MOST OF US COULDN'T IMAGINE A TRIP TO THE DOCTOR <i>WITHOUT</i> SEEING A STETHOSCOPE, DOCTOR DAVID BELLO HAS A HARD TIME ENVISIONING A FUTURE <i>WITH</i> THEM. HE RECENTLY SAW A PATIENT WHO EXPERIENCED A SCARY, FLUTTERING SOUND IN THEIR HEART - AND AS HE LISTENED TO THEM TRY TO DESCRIBE WHAT HAPPENED, BELLO WAS FRUSTRATED BY WHAT THEY SAID. :16
CG: David Bello, MD Orlando Health	"I would like to have that sound for you. I'd like to share that sound with you. They couldn't do it. So, now we have a way to do it." :08 / :24
Close up shots of HeartBuds Shots of hand-held device and phone Wide shot of exam	THANKS TO THIS. IT'S CALLED HEART BUDS. USING THIS SMALL DEVICE, AN APP AND A SMARTPHONE, SOUNDS CAN NOW BE RECORDED, STORED AND SHARED. AND TO SEE HOW IT COMPARED TO TRADITIONAL MODELS, RESEARCHERS AT ORLANDO HEALTH PUT IT TO THE TEST. :14 / :38
CG: Ricky Patel Medical Student, UF College of Medicine	"We examined four different stethoscope models, and we used them on 50 different patients, listening to their heart sounds, their

	lung sounds, their abdominal sounds, and also their vessels in their neck.” :11 / :49
<p>Shot of HeartBuds in use</p> <p>Pan from buds to disposable / blur Graphic over disposable model: Missed: -43% of all heart murmurs -Up to 75% of carotid artery blockage</p> <p>Shot of doctor using traditional model</p>	<p>RESEARCHERS FOUND HEART BUDS PICKED UP SOUNDS JUST AS WELL AS THE TOP STETHOSCOPES ON THE MARKET - AND BETTER THAN DISPOSABLE MODELS.²</p> <p>IN FACT, COMPARED TO HEART BUDS, DISPOSABLE STETHOSCOPES <i>MISSED</i> 43 PERCENT OF HEART MURMURS AND UP TO 75 PERCENT OF CAROTID ARTERY BLOCKAGE.²</p> <p>EVEN MORE IMPORTANTLY, THE OPPORTUNITY FOR BACTERIA TO NEST IN THE EARPIECES OF STETHOSCOPES IS ELIMINATED. :23 / 1:12</p>
<p>CG: Arnold Einhorn, MD Orlando Health</p>	<p>“So, with this electronic stethoscope that no longer has this portion, there’ll be no more transmitting this stuff between the p atients.” :06 / 1:18</p>
<p>Shot of patient checking own heart</p> <p>Patient on app</p>	<p>IT ALSO ALLOWS PATIENTS WITH CHRONIC DISEASES LIKE HEART FAILURE TO MANAGE THEIR CONDITION FROM HOME. THEY CAN NOW RECORD THEIR OWN SOUNDS AND SEND THE FILE TO THEIR DOCTOR. :08 / 1:26</p>
<p>CG: Darwin Clark, MD Orlando Health</p>	<p>“..And within a few minutes, have it listened to, analyzed and have a report back from their doctor’s office. That’s exciting, that’s the future of medicine.” :09 / 1:35</p>
<p>Dr. Bello in exam with HeartBuds</p>	<p>AT ORLANDO HEALTH, THIS IS CLARK POWELL REPORTING. :03 / 1:38</p>
<p>ANCHOR TAG</p>	<p>COST IS ANOTHER ADVANTAGE. TRADITIONAL STETHOSCOPES CAN COST UP TO 400 DOLLARS, WHILE HEART BUDS COST LESS THAN 10 DOLLARS TO PRODUCE.</p> <p>ONLY DOCTORS CAN USE THEM TO DIAGNOSE PATIENTS, BUT CONSUMERS ARE USING THEM, TOO.</p> <p>ATHLETES USE HEART BUDS TO MONITOR THEIR BODIES - AND PREGNANT WOMEN ARE NOW USING THEM TO RECORD SOUNDS OF THEIR BABIES IN THE WOMB TO SHARE WITH FRIENDS AND FAMILY.</p>
<p> Share it! Suggested tweet:</p>	<p>After 200 years stethoscopes may be phased out by smartphones a new device developed @orlandohealth. See it: bit.ly/1Xhjkp4</p>
<p> Suggested post:</p>	<p>Since it was invented in 1816, the basic design of the stethoscope hasn’t changed much - until now. On the verge of its 200th anniversary, doctors have come up with a way to replace the stethoscope with a smartphone and a new device. It’s called HeartBuds, and researchers at Orlando Health recently put it to the test against traditional models. See how they stack up: bit.ly/1Xhjkp4</p>
<p>References -</p>	<p>¹<i>The history of the stethoscope</i>, National Center for Biotechnology Informatoin, National Institutes of Health, online: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2379863/pdf/canfamphys00116-0139.pdf</p>

	<p><i>²Littmann Cardiology Ille of the HeartBuds, an electronic smartphone listening device, compared to FDA approved Class I and Class II stethoscopes, Presented at American Heart Association Scientific Sessions, 2015, November 2015.</i></p>
	<p>Extra Bites</p>
<p>CG: David Bello, MD Orlando Health</p>	<p><i>Dr. Bello talks about being involved in helping evolve the stethoscope -</i> “You have a 200 year old technology, versus the modern iPhones. And how they come together, that was exciting.”</p> <p><i>Dr. Bello talks about cutting infection risk by limiting contact with patients -</i> “We thought about a way to minimize the number of contacts between providers - doctors, nurses, medical assistants and that one patient. And perhaps, by listening and sharing those files, we can all listen to them, but less people have to enter and touch that patient.”</p> <p><i>Dr. Bello talks about development of phone technology aiding in medicine-</i> “They did a huge favor to us by doing that. And the processing, being so fast was able to do it as well. That’s the reason we can actually detect those sounds.”</p>
<p>CG: Valerie Danesh, Ph.D., RN Orlando Health</p>	<p><i>Danesh talks about the idea behind HeartBuds -</i> “The motivation for a listening device that’s portable like the HeartBuds is that it’s disposable. So, you can use a specific stethoscope for a specific patient and not worry about transferring bacteria inadvertently from improper cleaning of a stethoscope that you would normally carry around your neck.”</p> <p><i>Danesh talks about the future of stethoscope technology -</i> “With new generations of clinicians really looking at technology and looking at how technology can influence their workflow and can increase quality, I think there’s going to be a lot of interest in the future.”</p>
<p>CG: Julio Schwarz, MD University of Florida</p>	<p><i>Dr. Schwarz talks about the teaching aspect of HeartBuds -</i> “I think that’s the most exciting part about the HeartBuds. I’m involved with teaching a lot of medical students and a lot of residents and I think that this has become an invaluable teaching tool.”</p> <p><i>Dr. Schwarz talks about the outcome of the study -</i> “Clearly, it was superior to the disposable stethoscope, which is the main thing that I think we were trying to prove and it was comparable to the standard stethoscopes that we use.”</p>
<p>CG: Arnold Einhorn, MD Orlando Health</p>	<p><i>Dr. Einhorn talks about consumer use of HeartBuds -</i> “It doesn’t have to just be in the hospital setting. A pregnant woman can listen to their baby’s heart and send it to their family, things like that.”</p> <p><i>Dr. Einhorn talks about the risk of infection with stethoscopes -</i></p>

	<p>“Basically, the number of touches a doctor will have or nurses or therapists have with the patient, the more chances that you’ll take one person’s germs and spread it someplace else.”</p>
<p>CG: Ricky Patel Medical Student, UF College of Medicine</p>	<p><i>Patel talks about the evolution of the stethoscope -</i> “Since the 1800s the modern stethoscope hasn’t changed much, until today.”</p> <p><i>Patel talks about making use of smartphones in medicine -</i> “We have computers in our pockets, and in healthcare we don’t necessarily exploit that. That’s definitely an area in the future that needs to be explored further.”</p>
<p>CG: Darwin Clark, MD Orlando Health</p>	<p><i>Dr. Clark talks about reducing risk of infection with HeartBuds -</i> “We know that stethoscopes are a prime way for transmitting infections from physician to patient. And so with HeartBuds, there’s only one contact with the patient, the practitioner then listens to them as often and whenever they’d like.”</p> <p><i>Dr. Clark talks about the advantages to HeartBuds -</i> “They’re disposable, inexpensive devices, so they can be used for a single patient, for a single hospitalization and then the patient could keep it and take it home with them.”</p>
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