

**Peter C Baker, MD**  
**CURRICULUM VITAE**

**Goal:** To use my experience in clinical medicine, medical technology innovation and medical technology venture investments to join a firm as a medical director involved in product development, clinical strategy and market approach.

**Positions:** 1 HS Clinical Professor, Step 5, UCSF Department of Emergency Medicine  
2 Founder, Aardvark Medical Company. Innovations in ENT  
3 Clinical Partner, Aphelion Capital

**EDUCATION**

1982 - 1986	Bucknell University	Spanish / Biology		
1987 - 1991	University of Vermont	MD		Dean Tormey, MD
1991 - 1994	University of Minnesota	Resident	Pediatrics	Mike Shannon, MD
2007 - 1995	University of Utah/ Primary Children's Medical Center	Fellow	Pediatric Emergency Medicine	Jeff Schunk, MD

**LICENSES, CERTIFICATION**

1994	Medical Board of New York
1995	Medical Board of Utah
2019	Medical Board of California

**PRINCIPAL POSITIONS HELD**

1994 - 1995	Beth Israel Health Center	Attending Physician	Emergency Medicine
1994 - 1995	NENA Health Center, NY, NY	Attending Physician	Pediatrics

1998 - 2000	Kaiser Vallejo, CA	Attending Physician	Emergency Medicine
1998 - 2000	Children's Hospital, Oakland	Attending, moonlighter	Emergency Medicine
2000 - present	UCSF Benioff Children's Hospital Oakland	Attending Physician	Emergency Medicine
2008 - 2012	CPMC, San Francisco	Attending	Pediatric Emergency Medicine
2014 - present	University of CA San Francisco	Assistant Clinical Professor - Volunteer	Emergency Medicine

### OTHER POSITIONS HELD CONCURRENTLY

2007 - present	<b>Aardvark Medical Company.</b> Founder and CMO of this ENT-based medtech company with two 510K clearances, 6 IRB-approved trials, \$5.2M grant funding and \$4.2M raised in equity. Also, 17 issued patents.	
2013 - 2018	<b>Sanovas</b> , San Rafael, CA • Medical start-up with proprietary intra-cavitary/vascular cameras and balloons • Helped to identify utility of technology in specific body systems • Specifically focused on ENT space use (balloon sinuplasty, otic inspection and tympanic manipulation, endotracheal intubation	Med-Tech Consultant
2016 - present	<b>Aphelion Capital</b> , Mill Valley, CA • Med-Tech Venture firm focusing on devices and digital health products that take cost out of healthcare and/or are aligned with American Heart Association's mission • Review newly presented deals • Engage in diligence of those deals that are in our investment focus • Work closely with portfolio companies to assist with progress • Sit on three boards: Aardvark Medical, CoLabs, and Bioling (observer) This experience has helped me to further learn innovation in medicine and as such I can offer more to UCSF Catalyst Program at UCSF Innovation Ventures.	Clinical Consultant

## CLINICAL ACTIVITIES

### CLINICAL ACTIVITIES SUMMARY

Pediatric Emergency Medicine. After my training in Utah, I initiated my career in emergency medicine at Kaiser Vallejo in their main emergency department. While they did see some children, I learned much about adult emergency care while there as well as took a week every six weeks to cover the inpatient pediatric service and newborn nursery/deliveries.

While at Kaiser for two years, in 1998 I began moonlighting twice a month at Children's Hospital Oakland in anticipation of an eventual position opening up. There, I began my long journey with many of the colleagues I still work with 22 years later. I was asked to join full time in 2000.

As an Attending Physician in Emergency Medicine, I share responsibility for both the care of the sick and injured as well as education of residents and fellows rotating through the department. Over 22 years, individually we each manage an average of 4000 patients with approximately 95 level 1 or level 2 trauma activated patients each year. Our teaching is both real time case by case with the presenting trainees as well as more formally with daily morning lectures and mock codes.

Now, since the merger between Oakland and Mission Bay PEM groups, I am working at both sites. I find this valuable for diversifying my own patient load as well as better understanding the Division of Pediatric Emergency Medicine-and my new colleagues- better. Finally, I have been working with two more colleagues in DEM to investigate the clinical use of Telemedicine that could in the Emergency setting improve through put and patient access.

### CLINICAL SERVICES

1998 - present Pediatric Emergency Medicine Attending Physician, UCSF 12-14 shifts/month  
Benioff Children's Hospital Oakland

2022 - present Pediatric Emergency Medicine Attending Physician, UCSF 1-2 shifts/month  
Benioff Children's Hospital, Mission Bay

## PROFESSIONAL ACTIVITIES

### SERVICE TO PROFESSIONAL ORGANIZATIONS

2023 - Western Journal of Emergency Medicine

Reviewer/editor of  
Section on New  
Technologies

### SERVICE TO PROFESSIONAL PUBLICATIONS

2021 - present EB Pediatric Emergency Medicine. Writing article on Acute Myocardial Infarction in Pediatrics. Ongoing with several responses to feedback. Editor-in-Chief has approved revised manuscript and sending to peer review as of 2/2025.

2023 - present Western Journal of Emergency Medicine. Serving as both Section editor as well as primary reviewer which began this year.

### INVITED PRESENTATIONS - INTERNATIONAL

1996	Pediatric Advance Life Support seminar, San Salvador, El Salvador	Presenter
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### INVITED PRESENTATIONS - NATIONAL

1996	Sudden onset of weakness in a teenager-Emergi-quiz, Section of Emergency Medicine: AAP meeting, Boston MA	Presenter
1997	A child with fever and limp-Emergi-quiz Section of Emergency Medicine: AAP meeting, Boston MA	Presenter
2013	Totally Trauma-Abdominal Trauma in Children: Monterey CA	Presenter
2015	Nebulized Hypertonic Saline in Children with Bronchiolitis: APA/SPR, San Diego, CA.	Presenter
2017	Presented background on influenza surveillance and research and development proposal regarding the creation of a nasal wash aspirate + detection system for flu to be used in non-professional settings: Tech Watch Meeting, BARDA/US Department of Health and Human Services, Washington, DC	Presenter
2019	Head Cooling as a Novel Therapy for Concussion: Pediatric Academic Societies Meeting	Poster Presentation

### INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

1997	Cervical Spine Injuries in Children: Ambulatory Pediatric Association, Western District, Carmel, CA.	Presenter
2019	Delivering Bad News in the ED: George Mark Children's House palliative care conference, San Leandro CA	Presenter

### CONTINUING EDUCATION AND PROFESSIONAL DEVELOPMENT ACTIVITIES

I am currently up to date on Maintenance of Certification quarterly questions for both Pediatrics and Pediatric Emergency Medicine.

### GOVERNMENT AND OTHER PROFESSIONAL SERVICE

2018 - 2023	US Department of Health and Human Services, BARDA. Awarded contract grant for \$4.7M to modify a nasal wash device for home specimen collection and transport (influenza, COVID-19).	Contractee for influenza project
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## UNIVERSITY AND PUBLIC SERVICE

### SERVICE ACTIVITIES SUMMARY

#### Quality Improvement Activities.

Concussion I have been involved in several activities towards quality improvement in our medical care. Concomitant with my interest and research in head injury and concussion, I wrote the concussion evaluation and discharge care plans in conjunction with Drs. Chris Newton (surgery) and Cindy Chang (sports medicine). This implementation in the ED is set to unify and streamline the way we evaluate, document and offer post care to those with the diagnosis of concussion.

Neuro-critical Care Center of Excellence. Along with this specific concussion effort, I was the department's liaison to the Neuro-critical Care Center of Excellence team which more broadly was looking at creating inter-departmental guidelines and criteria that optimizes the care of anyone with a traumatic brain injury.

In-patient Psychiatry. For several years I also was involved in meetings and communications surrounding our behavioral and psychiatric patients held in the department. It became apparent to us that when children were deemed necessary to be needing a three-day inpatient psychiatric evaluation, there are woefully too few beds in our county. As such, these patients sit in our department and get little to no intervention while eating bad food and watching tv. This seemed very unjust to me and as such I initiated a movement to evaluate UBCHO's ability and responsibility to create a 5-10 bed inpatient unit. This is aligned with our mission and responsibility to these patients. This effort was initiated as the merger with UCSF began and so has gotten lost in the shuffle. I hope to take this back up as the merger is more solidified.

Tele-Emergency. Most recently I have self-initiated evaluation of offering telemedicine in our department and by our department to:

1. Offer more remote clinics and hospital out of the state to access optimal pediatric emergency care.
2. Offer level 3 and 4 patients quicker and real time tele visits where they would otherwise wait in our lobby for hours only to be seen for a few minutes. This is most poignant during surge times in the winter where many have simple colds and/or communicable diseases for which staying home has many public health advantages. This is early in the effort and we are applying for a HRSA grant as well as meeting with ACEP Telemedicine team and providers of the hardware and software. Now, I am supporting the CONA group once they have completed thematic analyses of interviews of outside EDs, I will be working with manuscript writing and editing.

In January 2023 I was selected as the site lead for an initiative funded by the Chancellor's Strategic Funds. This will evaluate our collective experience and wellness in our positions and identify opportunities for improvement. These surveys and town halls' data will be transmitted to leadership towards understanding real paths to improvement. We have engaged with the team at Blue Beyond to explore a variety of perspectives to help generate a report regarding our opportunities for improved physician work experience at BCH

I have also been a mentor in the UCSF Catalyst Program, giving advice to young medical entrepreneurs in their product or service ideation, strategy, regulatory pathway, intellectual property strategy and ideas on go-to-market. I have already been involved with three such projects and find the collaboration with the entrepreneurs and other advisors stimulating. Charles Hart, PhD is leading this program.

Finally, I have just been taken on to the Faculty Development Committee in the Department of Emergency Medicine.

## UNIVERSITY SERVICE

### UC SYSTEM AND MULTI-CAMPUS SERVICE

2014 - 2015	Concussion Care Plan and Emergency Department Evaluation algorithm. Implemented into EPIC, UCSF Benioff Children's Hospital Oakland (UBCHO)	Co-author
2014 - 2017	Neuro-critical Care Center of Excellence. ED liaison for creating guidelines for managing and follow up traumatic brain injury from initial evaluation to discharge from UBCHO hospital.	Emergency Department Liaison
2016 - 2018	Inpatient psychiatry investigation. Sought to investigate instituting in-patient psychiatry at UBCHO given large need. Communicated with administration and psychiatry team at UBCHO. Transition has put on hold.	Emergency Department Liaison
2019 - present	Tele-emergency medicine. Initiating investigation into implementing telemedicine to increase through-put and expand reach of Emergency Department. Now, the CONA project that evaluates needs of outside (referring) EDs is underway led by medical director. Thematic analysis of the ED interviews is almost complete and I will be part of the manuscript drafting and editing. We hope to submit it to a journal by late spring.	Emergency Department Liaison
2023 - 2024	Physician Experience lead at UCSF Benioff Children's Hospitals. An Initiative funded by the Chancellor's Strategic Funds. This will evaluate our collective experience and wellness in our positions and identify opportunities for improvement. These surveys and town halls' data will be transmitted to leadership towards understanding real paths to improvement. We have engaged with the team at Blue Beyond to explore a variety of perspectives to help generate a report regarding our opportunities for improved physician work experience at BCH	Site lead at UCSFBCHO



2022 - present UCSF Innovations, Catalyst Program. With my past experience in medical device innovation, I have become a mentor in the UCSF Venture' s Catalyst Program. I am working with start up project' s founders to guide them through ideation, intellectual property thinking, regulatory strategy and market execution. I find this aspect at UCSF exciting and very important for this institution to remain competitive and release meaningful therapies for its patients. I am working with Charles Hart, PhD (Executive Director of Catalyst) and Roopa Ramamoorthis (Senior Associate Director of Catalyst and InVent Fund). I have also met with David Morris, MD, Vice Provost of UCSF Innovations. We were discussing my becoming a larger part of UCIV or implementing a new Section on Innovation within DEM. He was intrigued on both fronts and we discussed my taking a few 'rounding out' courses at Cal to firm up my readiness for either.

UCSF Innovations  
Mentor

2023 - present Pediatric Emergency Medicine Scribe initiation. Beginning to look at options for implementing scribe services in the ED and Urgent Care as a way to facilitate and expedite patient care while at same time capturing optimal charting. This is ever more important as we endeavor to decrease patient waiting times, increase patient throughput and optimize billing. Interim Oakland site director, Al Johnson and I have been meeting with Sarah Beck, Director of Scribe Programs at UCSF Health. We completed the AI Scribe pilot project and have summarized the findings to the Division and am currently writing up the project for submission. Am also working with Aris Oates (Medical Director of Informatics at UC Health) on the ED rollout of AI.

Site lead

2023 - present Faculty Development Committee.

Member

## UCSF CAMPUSWIDE

2022 - present UCSF Innovations, Catalyst Program. With my past experience in medical device innovation, I have become a mentor in the UCSF Venture' s Catalyst Program. I am working with start up project' s founders to guide them through ideation, intellectual property thinking, regulatory strategy and market execution. I find this aspect at UCSF exciting and very important for this institution to remain competitive and release meaningful therapies for its patients. I am working with Charles Hart, PhD (Executive Director of Catalyst) and Roopa Ramamoorthis (Senior Associate Director of Catalyst and InVent Fund).

UCSF Innovations  
Mentor

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## SCHOOL OF MEDICINE

2022 - present Teaching School of Medicine students rotating through ZSFG Emergency Department. I have taught several courses (splinting, SIM labs) to these students at ZSFG. Teacher, mentor

## DEPARTMENTAL SERVICE

2000 - present Candidate Interview Panel: Pediatric Emergency Medicine Fellowship program, UCSF Benioff Children's Hospital Oakland (UBCHO) Interviewer

2003 - 2007 Surgical Review Committee: UBCHO ED Member

2014 - 2017 Neuro-Critical Care Center of Excellence: UBCHO ED Member

2019 - present NeuroTrauma committee: UBCHO. Research, discuss and implement practice guidelines and materials to unify approach to mild to severe TBI. This has paused since our director left and now we are interviewing new candidates. ED representative

2015 - present Trauma Review Committee: UBCHO ED Representative

2020 - present ED Telehealth initiative. Three of us in PEM have been looking at options for initiating a Telehealth program for several use scenarios including outside referring hospital use and for patients to use instead of coming to the ED or Annex. ED Representative

2019 - present Marin Health (aka Marin General Hospital) department of pediatrics. A team of UCSF ED and PICU physicians review cases from MH that were transferred to UCSF Benioff Children's Hospitals in order to learn outcomes and improvement opportunities. PEM Representative

2022 - 2023 PEM Division Wellness initiative for our off-site retreat in the fall of 2022. I initiated the questionnaire to investigate opportunities for wellness improvement. Then, worked with consulting agency Blue Beyond to put into a 2 day interactive presentation run by them. Finally, I have been following up on the summary responses and action items from this off-site in order to continue to keep opportunity improvement options at the top of our thinking. We will address them again formally at an upcoming Department off-site in May 2023. Committee member

2023 - present Faculty Development Service. I am just being onboarded to this important committee. Continue to participate and learn about its benefit to the department. Committee member



2023 - 2024 Faculty Experience, Cross Bay Committee. Now, working with the new Wellness Committee headed by Mary Mercer. Initial projects are out and the more important feasibility study by Blue Beyond is almost complete. Once done, we will evaluate how to proceed with funds to support wellness in the DEM and more importantly, see how this might translate to PEM in particular. Oakland Site member

## COMMUNITY AND PUBLIC SERVICE

2007 - 2016 Ross Public School Book Fair Parent Volunteer

2023 - present Dipsea Race Committee, medical tent. Helped to supervise medical volunteer with other UCSF medical staff. medical volunteer

2011 - 2019 Ross Valley Lacrosse Club Girl's Head Coach

2022 - present Parent Volunteer for both track and girls lacrosse teams. Parent Volunteer

## CONTRIBUTIONS TO DIVERSITY

### CONTRIBUTIONS TO DIVERSITY Contributions to Diversity, Equity & Inclusion Guidance

I have not been directly involved in a formal diversity program or education. However, I have worked at UBCHO for 22 years where over 70% of the patients are non-white and a significant proportion are non english speaking. As such, I am consistently taking into account patients/families' needs based on their diverse backgrounds and am always reminding students and residents the importance of this diversity in consideration of their care plan. Finally, I am medically fluent in Spanish which assists with my direct connection with Spanish speaking only families.

## RESEARCH AND CREATIVE ACTIVITIES

### RESEARCH AND CREATIVE ACTIVITIES SUMMARY

--Past. I have been involved with both my own initiated trials at UBCHO over 20 years as well as worked closely with our Pediatric Emergency Fellows' research projects. The main projects dealt with bronchiolitis predictive guidelines, 3% Saline for Bronchiolitis (the largest such trial at the time), concussion therapy intervention and a meta-analysis of intracranial injury prediction following trauma.

--Concussion intervention. I am currently working on determining the feasibility of a multi-site study for concussion management. This study, originating out of Children' National Hospital in Washington, DC will be an **NIH/NINDS funded** study of which we will receive funds to enroll patients and perform the requisite follow up. They did not get funding through NIH and now we will revise and submit to PCORI in DC.

--Concussion diagnosis. I am currently working on an industry-sponsored trial (Abbott Diagnostics) evaluating its TBI biomarker in children with mTBI. Our initial proposal was **awarded \$30,000** but we are currently revising our protocol and likely will seek more funds to perform a more comprehensive evaluation of the biomarker. As a large company, this is taking

some time. We did get IRB approval. Currently we are seeing if we can be included into the larger TRACKED-TBI national project and are undergoing a site review submission. This is ongoing and the UCSF TRACKED site (SFG) has asked us for a site review to participate at CHO.

I have also initiated an inquiry to both Abbott and BioMerieux (both have biomarkers) to perform a season-long study of the use of their biomarkers along with their existing on field evaluation and management of closed head injuries. I have reached out to the Sport Medicine folks at UCSF who are enthusiastic about the project.

**--Telehealth.** With Kevin Whitelaw, MD and Raj Daftary, MD, we have submitted a \$300,000 proposal to perform a feasibility study and project to create a PEM consult/transfer resource via telemedicine. This is from an organization called Doctor's Company Foundation to improve emergency care and access for critical access hospitals with little pediatric support.

This now became a smaller project but Dr Daftary is leading (and almost done) interviews at common EDs who send referrals to us. I will be part of the manuscript drafting and editing. We hope to submit it to a journal by late spring.

**--External.** Under the medical device company I founded, I was involved in 5 IRB-approved trials in the capacity of drafting the protocols, attaining independent IRB approval and working with principle investigators at each site. Finally, I had been involved in attaining several key grants for research and development totaling more than \$5.3M. Details below.

**INDUSTRY-LED CLINICAL RESEARCH** --Relates to Aardvark Medical, Inc, the company I founded in 2007. For each trial below, I drafted protocols, obtained independent IRB approval and worked closely with the site Principal Investigators.

**2008-Pilot Study** with Clearinse nasal wash system. N=21. Pediatrician feedback on first in human prototype. It was performed at 4 different clinical sites. Attained useful product requirement information as well as concept validation. White paper available.

**2010-2012-**Comparison of nasal wash aspirate (NWA) vs. nasal swab (NS) for flu testing for influenza testing. N=271. Performed at Dell Children's Hospital (Austin) and Advanced Pediatrics (Virginia) with assay partner Alere. Compared specimen quality and flu test results of NWA and NS taken from each patient with influenza-like illness. Found that NWA collected more accurate specimen when testing on lateral flow assays. White paper available.

**2012-**' Usability trial of Clearinse Nasal Wash System' . N=30. This was performed in conjunction with FDA input and their requirement to demonstrate safety and efficacy of the novel system in hands of non-professional users. White paper available.

**2017-**' Nasal wash aspirate vs. throat swab for diagnosis of strep pharyngitis' . N=100. Compared NWA specimen quality of NWA vs. throat swab in the diagnosis of strep pharyngitis. NWA proved inferior to throat swab, 70% vs. 98%. White paper available.

**RESEARCH AWARDS - CURRENT**

1. Primary submitter 40% % effort (PI)  
 BARDA/Health and Human Services 2/1/2020 10/01/2023  
 contract. Recently ended.  
 Grant Title: Home specimen collection of \$ Yr 1 Direct \$ Total Direct  
 nasal wash aspirates for subsequent Costs\$1,300,000 direct/yr Costs\$3,000,000 total  
 influenza testing. 1  
 Modify and study existing nasal wash aspirate device 'Clearinse' to create a home use  
 system for collecting flu specimens for subsequent transport to laboratories.  
 Spent 10 months writing and reviewing with BARDA ahead of its grant. These grant contracts  
 typically involve close collaboration with the BARDA team twice monthly. As I had planned,  
 my involvement in this project is now very limited and the funding has come to an end. The  
 projects and any trials performed were done by third parties.

**RESEARCH AWARDS - SUBMITTED**

1. Grant number Primary author of submission 75% % effort Chris Baker,  
 MD (PI)  
 BARDA/HHA 2020-02-01 2020-02-01  
 Grant Title: Home specimen collection of nasal wash \$ Yr 1 Direct \$ Total Direct  
 aspirates for subsequent COVID-19 testing Costs direct/yr 1 Costs total  
 Expand indication for nasal wash device from influenza to COVID-19  
 Primary author of initial submission and will be for any subsequent presentations. Awaiting  
 feedback from initial portal submission now. (2/14/2020)

**RESEARCH AWARDS - PAST**

1. Grant number Primary Investigator 40% % effort Chris Baker, MD Dr.  
 Wu (PI)  
 Thrasher Research Fund 2012 2012  
 Grant Title: Evaluation of Nebulized Hypertonic \$ Yr 1 Direct \$ Total Direct  
 Saline for the Treatment of Bronchiolitis Costs\$80,000 direct/yr Costs\$80,000 total  
 1  
 Multi-center study at Children's Hospital Oakland and Children's Hospital Los Angeles  
 Co-author of initial submission. Dr Wu initiated this grant.

**PEER REVIEWED PUBLICATIONS**

1. 1999 Baker PC, Kadish H, Schunk JE. Evaluatoin of Pediatric Cervical Spine  
 Injuries. Am J Emerg Med.1999;17(3);230-234.
2. 2000 Baker PC, Furnival R. Tuberous Scerlosis Presenting with a Bowel  
 Obstruction and an Aortic Aneurysm. Ped Emerg Care. 2000;16(4); 255-  
 257

3. 2001 Baker PC, Nelson DS, Schunk JE. The addition of Ceftriaxone to Oral Therapy Does not Improve Outcome in Febrile Children with Urinary Tract Infections. Arch Ped Adol Med. 2001;155, (2)135-139. Also presented at APA/SPR New Orleans, 1997.
4. 2005 Baker P, Mansour KM. Clinical predictors for intracranial injury following closed head injury in children. A meta-analysis and literature review. Poster presentation 2005 PAS conference, Washington, DC.
5. 2014 Wu S, Baker PC, Lang ME, et al. Nebulized Hypertonic Saline for Bronchiolitis: a randomized clinical trial. JAMA Pediatr. 2014 Jul;168(7):657-663
6. 2019 Osborne K, Baker P. Head cooling as a novel therapy for children with concussion. 2019. PAS, Philadelphia, poster presentation.
7. 2020 Baker P, Mansour K. Utility of novel intra-oral device in managing pain associated with acute otitis media. Ongoing research, 2020.

#### **NON-PEER REVIEWED PUBLICATIONS**

1. 1989 Muschler GF, Lane JM, Wentz J, Baker C. 1989. Segmental Femoral Defect Model in the Rat. Aebi M, Regazzoni P (ed): Bone Transplantation, New York, Springer

#### **REVIEW ARTICLES**

1. 2023 Acute Myocardial Infarction in Children, a review. This is an ongoing review for the group EB Medicine, a fast, bottom line resource for issues in Emergency Medicine and Pediatric Emergency Medicine.  
  
This has been a very long process as the topic is very niche with little data and mostly expert opinions. As such, there have been differing views between the editors and us authors. Editor in chief just approved for it to be peer reviewed.

#### **PATENTS ISSUED OR PENDING**

1. Family: Irrigation and Aspiration Device and Method
2. 2011 US 10226554 B2, Mar 12, 2019
3. US 9844613 B2, Dec 19, 2017
4. US 9839728 B2, Dec 12, 2017

5. US 9827355 B2, Nov, 28, 2017
6. US9750856B2, Sep 5, 2017
7. US89556324B2, Feb 17,2015
8. US8834408B2, Sept, 16, 2014
9. US8827945 B2 Sep 9, 2014
10. US8435207B2, May 7, 2013
11. US8414521B2, Apr 9, 2013
12. US7959597B2, June 14, 2011
- 13.
14. 2011 US201110282268A1 -"Methods and Systems for Delivery of Fluids and Aerosols to Tissue Surfaces, Cavities and Obstructed Passages such as Intranasal Ostia"
15. 2011 US20110282251A1 - Methods and Systems for Delivery of Acoustic Energy to Tissue Surfaces, Cavities and Obstructed Passages such as Intranasal Ostia

#### OTHER ACTIVITIES

1. **Medical Technology Innovation:**

Aardvark Medical, Inc, Ross, CA Founder, CMO

Devices that emulate hospital based procedures such as nasal lavage and upper respiratory specimen collection and transport

Conceived idea, derived proof of concept and assessed marketability

Raised \$4.2M in equity financing over 10 years for R&D, manufacturing and market

Worked through the FDA as a 510(k) clearance

Directed 6 IRB approved clinical trials

- . 17 US patents issued, more pending
- . **'Clearinse'** nasal wash system on the market
- . **'ClearinseCTS'** in development with contract with BARDA/HHS for influenza specimen collection
- . Grant contract was awarded in 2018. \$5.2M to modify existing device for their needs for a home collection system