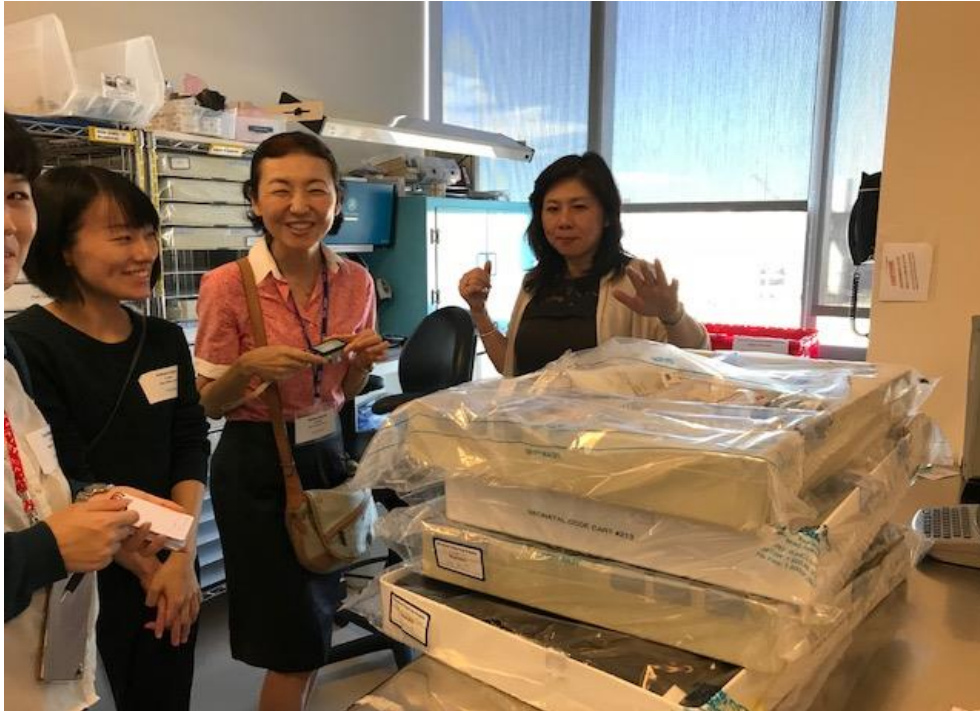


Best Practices in Pharmacy Education  
Osaka University School of Pharmacy visit to UCSF  
October 22, 2017 – October 25, 2017

**1a. Robotic Pharmacy.** by Pharmacy Director Rita Jew, Pharm. D.

Note: Approximately one in twenty hospital patients were harmed by an adverse drug event (ADE). ADEs occur during ordering, transcribing, dispensing or administering a drug. (Agency for Healthcare Research and Quality, US Department of Health and Human Services, June 2017, <<https://psnet.ahrq.gov/primers/primer/23/medication-errors>>)



Chiharu-san    Maeda-sensei    Rita Jew, Pharm. D.

1b. Robot which dispenses medications in either pill form or liquid form. This robot insures accuracy of type and dosage of medicine. It is also places a bar code on the medicine to insure it is administered to the correct patient.



1c. Closed circuit video monitoring robot. Chiharu-san in background on left



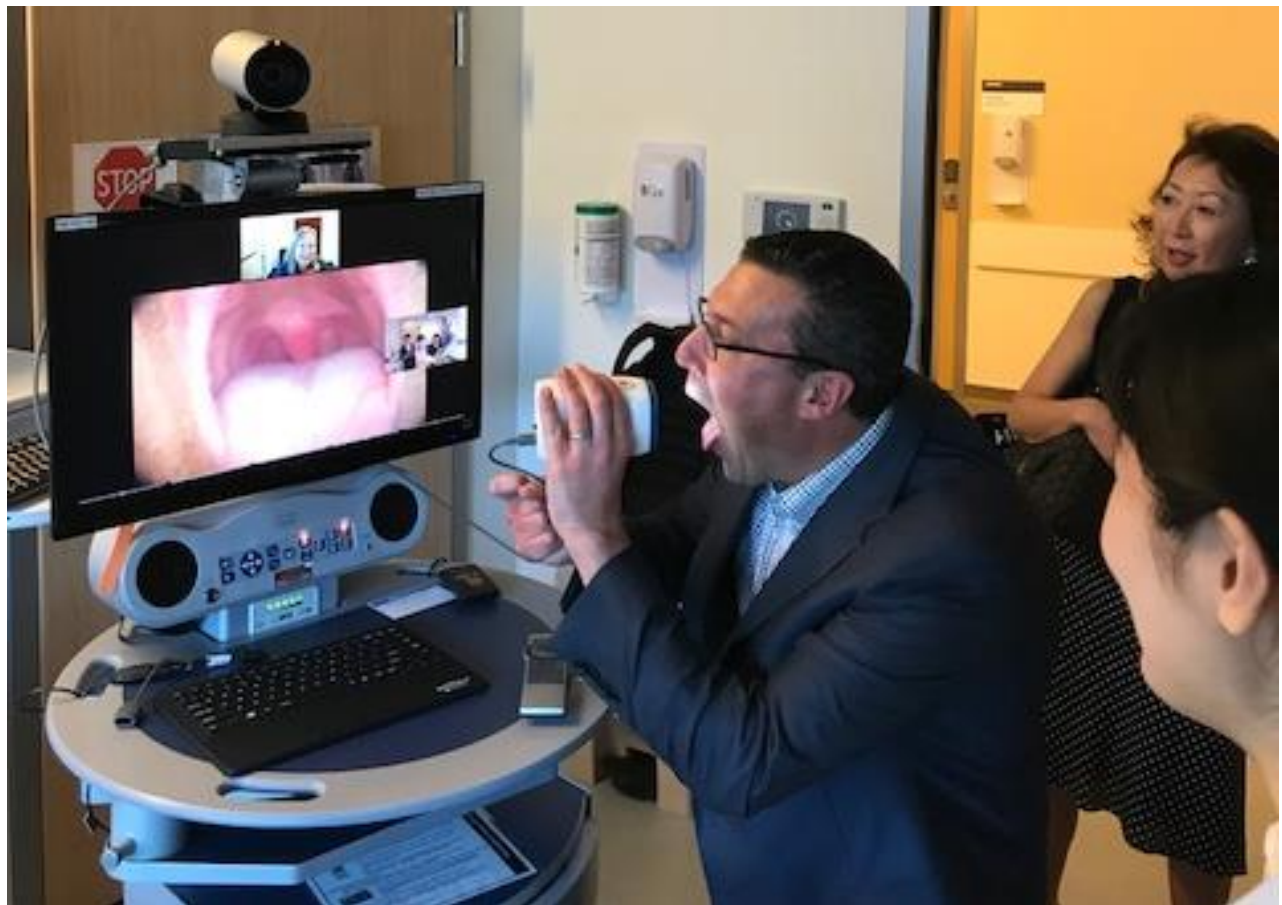
1d. Robot which retrieves medicines from storage. This robot also maintains an electronic record of amount of medicine available and expiration date of stored medicine.



**2. Telemedicine.** by Seth Bokser, M.D. Telemedicine allows doctors in a distant location to examine and video conference with patient. Telemedicine robot is on right partially hidden behind Professor Maeda.



2b. Dr. Bokser shows how another distant doctor can perform a close up visual examination of Dr. Bokser's throat.  
Note #1: small upper image on computer screen is face of the other doctor in distant location.  
Note #2: small image on right side of computer screen is view the distant doctor sees of hospital room



**3. Operating Room Visit.** by Josh Connelly, D.D.S., M.P.H. Dr. Connelly showed the participants the various uses of technology in the operating room. In some of the robotic surgery operating rooms there may be as many as 8 video and computer screens used by the surgeons, anesthesiologists, and nurses.



**5. Code Blue Procedure & Crash Cart.** by Pauline Chin R.N., M.S. A “Code Blue” is an emergency when a patient’s heart stops. The “Crash Cart” is the mobile cart with an AED, medicines and oxygen need to keep the patient alive. Ms. Chin explained how UCSF pharmacists are called to all Code Blues at UCSF. Below is an image of Ms. Chin and the Crash Cart.



Maeda-sensei   John   Debbie   Ms. Chin, RN, MS   Crash Cart   Maeda-sensei   Chiharu-san   Yuki-san

4. Awarding of Certificates of Participation by Dean Don Kishi, Academic Dean of UCSF School of Pharmacy



Yuki-san

Chiharu-san

Maeda-sensei

Dean Kishi

Maeda-sensei

John

Debbie