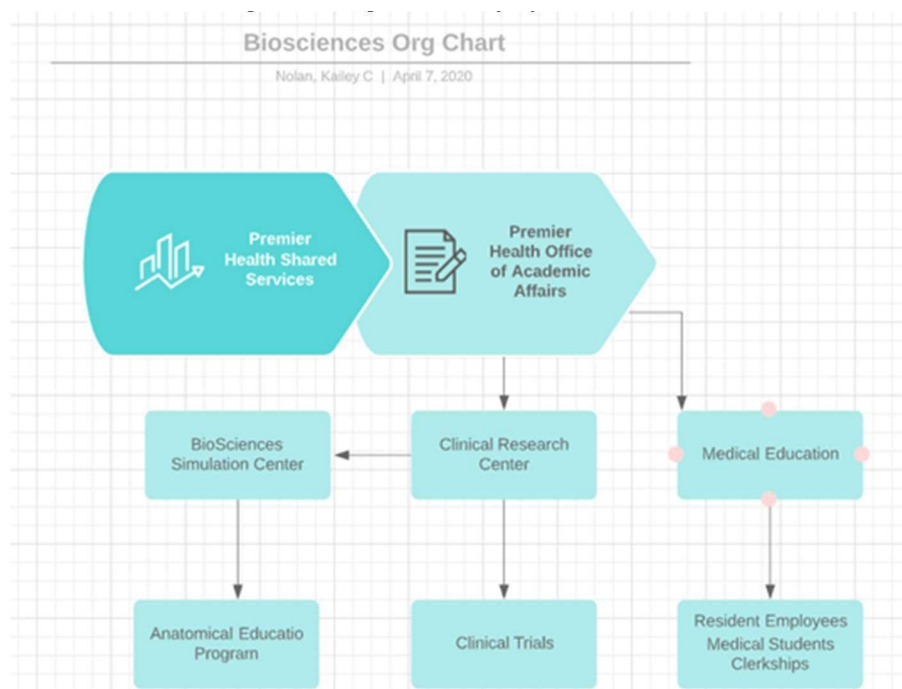


Title	The Combined Anatomical Gift Program at Wright State University Boonshoft School of Medicine and Hospital Based Premier Health Academic Affairs (PHAF) Anatomical Education Program (AEP) <u>Names of internal and external stakeholders</u> Premier Health Academic Affairs (PHAF) Wright State University, Boonshoft School of Medicine (BSOM) Anatomical Gift program Wright State University College of Nursing Woodland Cemetery Dayton Mortuary Services
Executive Summary	<u>Mission</u> To sustain an anatomy-based educational program using fresh frozen cadavers to teach procedural anatomy and procedural skill. Donating a human body to the BSOM is a lasting and valuable contribution to medical education. These gifts to BSOM are essential for instructing medical personnel in human anatomy and are invaluable for the training of future physicians and medical specialists. <u>Goals & Activities</u> • To provide an accessible learning environment for gross anatomy, tissue banking, and procedural skills enhancement • To improve the practical skills of providers and clinical staff to improve care delivered to hospital patients • To provide a platform for biotechnical, biomedical and pharmacological enhancements in clinical and translational research • To provide an opportunity for surgical sub-specialties to train residents and fellows in a low stress arena • To use for quality improvement exercises in procedural specialties to achieve better outcomes • To provide an opportunity for procedural innovation and research
Program Vision	Increase the impact and accessibility of a traditional training method, cadaveric dissection, in teaching new skills and learning anatomy. This is meant to enhance the current trend in medical curricula which is inclined towards student-centered, integrated, clinical application models.
Background/ Supporting Information	<u>Assertions</u> • Dissection continues to remain a cornerstone of anatomy curriculum • Dissection helps to build disciplined independent skills which are essential requirements in procedural specialties • Simulated procedures prepare medical personnel, especially in emergency triage, increasing situational readiness
Goals, Action Steps, and Outcomes	The human cadaver remains the gold standard for anatomic training and is highly useful when incorporated into continuing medical education programs. This highly valuable resource is often not cost effective for programs unless used to its full potential in a multidisciplinary approach. The BSOM Anatomical Gift Program strives to coordinate multiple uses of individual cadavers to better utilize anatomical resources and potentiate the availability of cadaver training.

Program Structures, Reach, and Partners	<u>Anatomical Gift Program at BSOM - Medical School</u> • Maintains an active registry through a website page, similar to other medical schools, which does not require advertisement due to the incentivized coverage of transportation, cremation and burial costs. The donor must register themselves. Registration cannot be performed by a family member. • Monetary support for mortuary transportation from place of death to BSOM for serology testing • All donors are serology tested through LabCorp (48 hr. lab) while at BSOM • BSOM coordinates the contract with Woodland Cemetery for cremation • \$1600 donor cost includes serology and cremation and is charged to Premier Health Academic Affairs (PHAF) • Faculty paid stipend if not a volunteer • Provides Lab Instructors • Curriculum Overview • Annual burial at BSOM Rock of Fields Cemetery, ashes placed in single wood box for all donors at single grave site
	<u>Premier Health Academic Affairs (PHAF)-Miami Valley Hospital</u> • Physical facilities (Gross anatomy Labs, 24 hour Versatrak monitored coolers, supply storage –meeting FDA standards, camera and security agreement) • Monetary support for: 1, BSOM donor cost \$1600 each for serology and cremation 2. Mortuary Transportation \$250 per donor from BSOM for serology > (PHAF) Miami Valley Hospital (AEP) > Cremation at Woodland Cemetery> Burial at BSOM Rock of Fields Cemetery 3. Donation and budgeted laboratory supplies (access to expired products) 4. Instructors 5. Part Time Position Support



Expenses	EXPENSES ANNUAL: Donor Charge (160 annual at \$1600 each) \$256,000 All Other Charges (Salary and Benefits, Supplies, Transportation) \$108,500 Annual Total \$364,500																				
Evaluation Plan	<u>Annual Traffic to the Lab</u> # 3,461 Doctors, Medical Students, RN's <u>Partnering Departments</u> <table><tr><td>Dermatology Fellowship/ Residency</td><td>Plastic Surgery</td><td>Care Flight Staff</td></tr><tr><td>General Surgery</td><td>Orthopedics</td><td>Dental/Maxillofacial Programs</td></tr><tr><td>Obstetrics and Gynecology</td><td>Medical Device Industry</td><td>Laparoscopic Surgery Fellowship</td></tr><tr><td>Family Medicine Residency</td><td>Anesthesiology</td><td>BSOM Clerkship</td></tr><tr><td>APRN Training Program</td><td>Trauma Surgery</td><td>Cardiovascular Surgery</td></tr><tr><td>Sports Medicine</td><td>EMT/EMS</td><td>WPAF Ground Surgical</td></tr></table>			Dermatology Fellowship/ Residency	Plastic Surgery	Care Flight Staff	General Surgery	Orthopedics	Dental/Maxillofacial Programs	Obstetrics and Gynecology	Medical Device Industry	Laparoscopic Surgery Fellowship	Family Medicine Residency	Anesthesiology	BSOM Clerkship	APRN Training Program	Trauma Surgery	Cardiovascular Surgery	Sports Medicine	EMT/EMS	WPAF Ground Surgical
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Challenges and Recommendations	- While rare, the AGP has encountered events where there are no donor gifts coming into the registry. The BSOM has capacity to store 8 frozen cadavers to use if a registry participant does not decrease when an educational event is scheduled. - Revenue generation by creating relationships with industry sponsors such as device education and demonstration has created a small but useful stream of income for the department. - Research Studies involving cadavers, while not human subject research should be evaluated by a committee for strain of resources, storage constraints and budget. - Working with an anatomic procurement program in the public sector ie medical school vs private donation center is an essential ethical consideration. Medical Schools can provide a decreased cost to the requestor (Premier Health) for donor gifts. Donations and tissue are formalized, documented properly and maintained with the upmost respect. Private procurement programs cost on average 3x more, are generally not as fresh and usually cannot offer full cadaveric bodies. - BSOM holds donors until at least 36 hours post death which bypasses the limitations of rigor mortis and significantly expands the availability for learning. Freezing the bodies and then thawing them for use provides more flexibility in accessing specimens for planned educational events.																				

Staffing Resources	Full-time professional staff position • Coordinates operational activities in the anatomy laboratory, providing support services to faculty and technicians. This entails approximately 30 hours/week overseeing students in the laboratory. • Develops and implements policies, procedures, and standards for lab operations to ensure the efficiency, effectiveness, and quality control of the laboratory and compliance with federal, state, and University regulations and standards • Maintains supplies, lab ware, and instruments essential to the operation of the lab • Coordinates with faculty and student teaching assistants the grading of student laboratory reports • Works with department faculty to maintain a safe and productive laboratory environment • Attends interdisciplinary department meetings
References	Blaschko SD, Brooks HM, Dhuy SM, Charest-Shell C, Clayman RV, McDougall EM. Coordinated multiple cadaver use for minimally invasive surgical training. JSLs. 2007;11(4):403–407. Kay RD, Manoharan A, Nematollahi S, et al. A novel fresh cadaver model for education and assessment of joint aspiration. J Orthop. 2016;13(4):419–424. Published 2016 Sep 15. doi:10.1016/j.jor.2016.09.003 Amini R, Camacho LD, Valenzuela J, et al. Cadaver Models in Residency Training for Uncommonly Encountered Ultrasound-Guided Procedures. J Med Educ Curric Dev. 2019;6:2382120519885638. Published 2019 Nov 19. doi:10.1177/2382120519885638