DATE: April 29, 2016

TO: Physician Assistant Class of 2018

FROM: Pat Kenney-Moore, EdD, PA-C
Associate Director/Academic Coordinator

SUBJECT: Required Diagnostic Medical Equipment

As the beginning of the 2016-17 academic year approaches, it is time to start thinking about the purchase of the medical equipment that will be used during the Physical Diagnosis course and throughout your medical career. You will spend a great deal of time learning and practicing physical examination skills and will have opportunities to examine patients at medical sites in the Portland metropolitan area as part of your academic year experience. Therefore, it is important to have high quality medical equipment at the start of the program.

The faculty and staff are looking forward to the start of a full and exciting year and the opportunity to get to know each member of the Class of 2018. In the next few weeks you will be receiving additional information regarding student orientation. In the meantime, begin locating your medical equipment and enjoy the rest of your spring!
The following pages describe the required medical equipment for all incoming physician assistant students. These are pieces of equipment that you will use regularly in class, in clinic and in individual practice in order to master your physical examination skills. Purchase prices listed are estimates and may vary depending on the vendor you ultimately choose to utilize. On average, students can expect to spend $900-$1,500 for equipment that will be used for many years to come. As with most things, you get what you pay for, so prepare to “bite the bullet” and buy reliable, high quality equipment. Any equipment you already own must be this level of quality or better in order to be considered acceptable. Keep in mind that most equipment gets more sophisticated every year, so hand-me-down equipment may not be sufficient, especially if it is more than a few years old. The model numbers listed are correct and available for purchase, but in some cases they may not appear on a particular vendor site. Therefore, please be sure to order the model numbers as listed below. Please contact Pat at kenneymp@ohsu.edu if you have older equipment and would like to know if it will meet program requirements.

Diagnostic Set: This is the most expensive item you will purchase as it includes an ophthalmoscope, an otoscope, a convertible rechargeable handle and a hard case for protection. The model with the nasal illuminator is recommended as it aids in the nasal examination, but either model is acceptable. Welch-Allyn is the standard of the industry in the United States and has an excellent warranty program. Purchase the regular sized unit - the miniature penlight version does not have the same optics, is inadequate for your needs and will not be acceptable for use in class.

REQUIRED Welch-Allyn Diagnostic Set + Macroview:

CHOOSE ONE OF THE FOLLOWING:

97210-MC with nasal illuminator OR 97200-MC without nasal illuminator
This version includes a convertible handle allowing either the use of the nickel-cadmium battery OR disposable C-cell batteries. If you are planning on doing work out in the field away from electricity, this is the most versatile model

97210-M with nasal illuminator OR 97200-M without nasal illuminator
This version includes all the required components and the nickel-cadmium battery but does not convert to disposable batteries

In addition to the diagnostic set, you will also need the following attachment for the otoscope

Insufflator Bulb: Attachment to the otoscope for examining the ear.

REQUIRED: Welch-Allyn 23804
This will fit the new models. If you have an older model you will need to make sure to locate an insufflator bulb that will fit your model.

Stethoscope: These instruments vary widely in quality. A stethoscope is a personal item and is often chosen for how comfortable it feels while it is worn. In addition to comfort, you must also consider the quality of the sound you can hear. Therefore, it must have a diaphragm AND bell (either separately or combined in a “tunable” diaphragm) and should have double tubing (within a single tube) to enable you to discriminate between subtle sounds. While there are more expensive stethoscopes than the ones we have listed, these will provide excellent auscultatory acoustics. Stethoscopes vary in length
according to use. The typical length is 27”, although a 22” alternative is available. The best length is one that fits comfortably around your neck without falling off.

**REQUIRED:** (Choose one)
- 3M, Littman Master Cardiology
- 3M, Littman Cardiology III
- Welch-Allyn, Harvey Elite
- OR a stethoscope of equal or better quality

**Sphygmomanometer:** A regular adult-sized, non-latex cuff is required. Some clinicians find that the models that have hand-held dials are easier to manage than the ones with the dials attached to the cuff itself. This is a personal preference and does not affect the effectiveness of the cuff.

**REQUIRED:** (Choose one)
- Welch-Allyn DS58-11 with cuff (traditional pressure release)
- OR
- Welch-Allyn 5098-27 DS66 with cuff (trigger pressure release)
- OR A Non-Latex BP cuff of equal or better quality

In addition to the diagnostic set, stethoscope and blood pressure cuff, there are some smaller items that are used routinely and need to be included in your medical kit.

**Tuning Forks:** You will need two different tuning forks to assess for hearing acuity and vibratory sensation.
- (1) 128 Hz
- (1) 512 Hz

**Percussion Hammer:** We recommend the simple tomahawk style. The neurological style is acceptable as long as the sensory testing pin is discarded.

**Penlight:** Purchase inexpensive penlights in quantity or consider one with replaceable batteries. **Do Not** purchase a penlight with a halogen bulb

**Rosenbaum Pocket Eye Chart:** These are pocket sized, laminated charts to assess visual acuity. **Do Not** purchase a pocket sized Snellen chart.

**Flexible retractable fabric tape measure:** Used to measure around body contours.

**Antibacterial Hand Gel:** A small bottle to keep with your medical equipment to ensure you can wash your hands in any circumstance.

*Please obtain the above items and ensure receipt prior to your arrival on campus. We will be using these in class beginning June 30th.*

**Scrubs** – Prior to the start of Summer B term on August 9th, students are required to obtain a set of scrubs for FOCA (Foundations of Clinical Anatomy). Scrubs can be purchased at various locations including: Affordable Scrubs 6767 SW Macadam ([http://www.affordablescrubsportland.com/](http://www.affordablescrubsportland.com/)), NW Scrubs ([http://www.nwscrubs.com/](http://www.nwscrubs.com/)), ScrubMed ([https://www.scrubmed.com/](https://www.scrubmed.com/)), Steeles ([http://www.steeles.com/categories/scrubs](http://www.steeles.com/categories/scrubs)), Walmart, etc. These will become soiled and are typically discarded at the conclusion of the class so an inexpensive set (or a used set) is just fine.
Where to Purchase Your Medical Equipment?

The following information will direct you to some of the available resources for purchasing medical equipment. After reviewing the information, decide which option works best for you.

You can purchase the equipment through many websites, either directly from the manufacturer, authorized dealers, or other sources. Some sources may offer discounts for students. We recommend that you compare prices prior to any purchase.

If you and your classmates decide to do a group order, please have it delivered to a student address. Unfortunately, the program is unable to coordinate or accept student medical equipment group order deliveries.

*Any equipment you already own must be equal to or higher quality than the required equipment or you will be expected to upgrade.*

**WELCH ALLYN** – Students can purchase equipment through the Welch Allyn website for discounted prices. To take advantage of the direct buy, visit their website at [http://www.welchallyn.com/](http://www.welchallyn.com/)
Click on “Students” in the upper right hand corner of the website, then select “Medical Students” “Shop Now” link located at the very bottom of the page

To see the discounted price of the item, you’ll need to check-in as a student. Select the items first, add them to your cart, and then create an account by selecting My Account or View Price. If you are new to Welch Allyn, you’ll need to register as a new customer. A new page will pop up asking you to provide first name, last name, email address, etc. Year of Graduation is 2018. Select program “Physician Assistant” and then Select Your School (currently there are 2 choices for OHSU and either one will work “Oregon Health Sciences Univ – PA”). Select the items you want to purchase and add them to your cart.

Please note: the equipment model numbers listed are correct and available for purchase, but in some cases they may not appear as an option on a particular vendor site. Therefore, please be sure to order the model numbers as provided.

**LITTMAN STETHOSCOPES** – Official 3M Littman website: [http://solutions.3m.com/wps/portal/3M/en_US/Littmann/stethoscope/](http://solutions.3m.com/wps/portal/3M/en_US/Littmann/stethoscope/) (you can’t purchase directly on this site, but does provide an overview of the products)
[http://www.stetho3mscope.com/](http://www.stetho3mscope.com/) (this site offers medical equipment, not just stethoscopes)

**AMAZON** – At [Amazon.com](http://www.amazon.com), you will find the medical equipment located under Health & Personal Care or by entering the product name or equipment number.

**OHSU Virtual Bookstore** - [http://www.ohsu.edu/xd/education/student-services/student-center/virtual-stores/medical-equipment/index.cfm](http://www.ohsu.edu/xd/education/student-services/student-center/virtual-stores/medical-equipment/index.cfm) Medical Equipment ordered via the OHSU Virtual Store can be sent to OHSU for you to pick up when you arrive on campus. This may be convenient for those of you who are travelling and/or may not have a permanent Portland address.

**STEELE SUPPLY COMPANY** - Student and professional medical equip supplier [http://steeles.com/](http://steeles.com/)
Although the program doesn’t coordinate group orders, students are welcome to set up a group order on their own (with delivery to a student address and distribution outside of class time) or purchase equipment individually. Steeles has coordinated group orders in the past, so feel free to work with them and fellow students if you’re interested. [http://www.steeles.com/student/](http://www.steeles.com/student/)
**Purchasing Used Equipment** – As a means of saving money, some students have found used equipment for sale. As with all such purchases, we recommend that the buyer beware! Oto-Ophthalmoscopes more than 5 years old may not have up-to-date optics and it may be difficult to determine if a unit is fully functional. Be sure to deal with reputable sellers if you choose to use previously owned equipment. Remember, any equipment you already own must be equal to or higher quality than the required equipment or you will be expected to upgrade.

**You are expected to have the necessary equipment by the time the Physical Diagnosis class begins on June 30th,** so please be sure you allow enough time for shipment of your equipment. You should factor in 2-3 weeks for shipping.

**White Coats** – There is no need to purchase a white coat prior to entering; you will be provided with 2 short (hip-length), long sleeved, blazer style white jackets embroidered with the OHSU school logo for all clinical experiences while a student at OHSU. During the first weeks of class (July 11th), the program will provide sample sizes for students to try on. The program will place a single order for white coats for all students – these are intended to last through graduation.