## Putting It All Together Summary Check List – All Skills

How do you perform the examination in a way that is complete, makes sense and yet is not awkward or prolonged? Is it OK to mix together different areas of the exam or should each system be explored as a block? Answering these questions and putting together a smooth exam is quite challenging. There is no single right way to do this. Any approach should:

- 1. Cover all aspects of the examination such that you have a reasonable chance of identifying pathology that might be present.
- 2. Be readily reproducible, allowing you to perform the exam the same way, all the time.
- 3. Keep patient gymnastics to a minimum (i.e. limit the number of times that the patient has to get up and down).
- 4. Link together sections which, although disconnected physiologically, are connected spatially. For example, inspection and examination of the feet for edema and peripheral arterial disease is part of the cardiovascular exam yet is described below following the exam of the abdomen.
- 5. Allow you to be efficient and perform the exam with an economy of movement (i.e. minimize the number of times that you pick up and put down instruments, move from one side of the patient to the other, etc.).

It will take time, thought and practice before you come up with a system that works for you. I encourage you to experiment while choreographing your own moves. It's helpful to practice the "mental aspects" of the PE by writing down the components of the exam, in the order in which you plan to perform them. If you can write it from memory, then you're a step closer to gaining mastery of this material. The approach described below keeps the movement of the examiner to a minimum, limits the frequency with which the patient has to get up and down, and is reasonably logical, thorough and efficient. There is a lot of room for flexibility.

Recognize that when caring for patients, the exam is somewhat modularized, with physicians performing selected aspects (e.g. cardiac, abdominal, pulmonary) to investigate particular symptoms. For example, evaluation of a 20 year old with knee pain after an injury would be limited to a detailed lower extremity exam, as exploring other regions (e.g. heart, lung) in this situation would be very unlikely to reveal important information. Conversely, an older person with a chief complaint of "weakness" (a concern with many possible explanations) would require a comprehensive evaluation. Knowing which examination module(s) to apply in any situation takes practice and experience, something that you will gain in the coming years.

The checklist which follows includes all elements that are part of a very comprehensive screening exam. Recognize that there are many additional maneuvers (not described here) which would be appropriate in specific clinical situations. You will learn these techniques (and the times when they should be performed) in the coming years. Pelvic, breast, male genital, rectal and detailed musculoskeletal/joint exams have been omitted.

Vital Signs:	<b>Pulmonary</b>
□ Wash Hands	Observation and Inspection
☐ Ask patient to put on gown and sit	☐ General observation of breathing, note if using
□ General observation	accessory muscles/general respiratory effort
☐ Measure pulse, both radial arteries	□ Note shape of chest and spine
□ rate	<u>Palpation</u>
□ rhythm	□ Assess chest excursion
, □ volume	☐ Assess tactile fremitus (*special test)
□ Measure respiratory rate	Percussion
□ Measure blood pressure	□ Percuss posterior lung fields, top to
□ Examine hands, fingers, nails	bottom→comparing side to side
= 2/minine names, migers, mans	☐ Identify amount of diaphragmatic descent with
Head and Neck	Inhalation (*special test)
□ Observation face, head, neck & scalp	☐ Percuss right antero-lateral chest (middle lobe)
□ Palpation lymph node, parotid and salivary gland	and anterior lobes (bilateral)
regions	Auscultation
☐ Assess auditory acuity (crude test hearing loss)	☐ Listen w/diaphragm to posterior lung fields, top
☐ If hearing loss, perform Weber & Rinne	to bottom→comparing left w/right
Tests 512 Hz fork (CN 8) (*special test)	☐ Listen to right middle lobe area
☐ Ear: external and internal (otoscope)	☐ Listen to anterior lung fields
□ Nose: observation, nares/mucosa (otoscope)	□ Listen over trachea
□ Oropharynx:	□ Assess for egophany (*special test)
☐ Inspect w/light from otoscope & tongue	
depressor→uvula, tonsils, tongue, mucosa	Cardiovascular:
☐ "Ahh" to help see back of throat	□ Drape appropriately
☐ Inspect teeth & salivary gland ducts	☐ Examiner stands on right side of patient's body
☐ Thyroid: Observation, palpation	□ Patient lying w/head of table elevated ~ 30°
	Observation & Palpation
<b>Eye Exam, Including Ophthalmoscopy:</b>	☐ Inspect precordium – visible PMI, other contours
☐ Observe external eye structures — lid, sclera, pupil	□ Palpation of RV and LV (heaves, thrills); Determination of PMI
□ Visual acuity (hand-held card – CN2)	
□ Visual fields (confrontation – CN 2)	Auscultation
□ Extra-ocular movements (CN 3, 4, 6)	☐ S1 and S2 in 4 valvular areas w/diaphragm; note rate, rhythm
<u>Using Ophthalmoscope:</u>	□ Try to identify physiologic splitting S2
□ Examine external eye structures (lids, sclera,	☐ Assess for murmurs, characterize if
pupil, iris, conjunctiva)	•
□ Check pupillary response to light – direct and	present  ☐ Assess for extra heart sounds (S3, S4)
consensual (CN 2 & 3)	w/bell over LV
□ Red reflex	Carotid artery
□ Retinal exam – identifying: Optic disc, arteries,	□ Palpation
veins, color of retina, and macular area.	☐ Auscultation
	Internal Jugular Vein
	☐ Measure jugular venous pressure

<u>Abdomen</u>	□ memory- 3 objects (cat, number 7 and
☐ Lay patient flat. Drape appropriately – allowing	table) repeat immediately and after 5
exposure of abdomen but not rest of body	minutes
Observe & inspect abdomen	<ul> <li>Abstract thinking- similarity and</li> </ul>
□ Shape, scars, color, symmetry, protrusions	difference between orange and ball.
Auscultation	□ Mental Status Exam
□ Listen w/diaphragm to 4 quadrants	□ Mood- as described by patient
□ Note quantity and quality of bowel sounds	☐ Affect- observed by examiner could be
☐ Listen for bruits centrally & over renal arteries	congruent or incongruent to described
(*special test)	mood,
Percussion	□ Speech- rate, tone, production,
□ Percuss all quadrants	☐ Thought process- linear, goal directed
□ Percuss liver span	or circumstantial, tangential,
□ Percuss area of spleen, stomach	disorganized,
<u>Palpation</u>	☐ Thought content- delusions, suicidal or
□ Palpate all quadrants superficially	homicidal ideations/intent/plan,
□ Palpate all deeply	□ Insight- good, partial, poor,
☐ Try to identify liver edge (w/inspiration)	□ Judgment- what would you do if you
□ Palpate region of spleen	found a sealed, addressed, stamped
□ Palpate area of aorta (*special test)	envelope on the ground?
<b>Lower Extremities (continuation of C/V)</b>	□ Cranial Nerves – A few covered (above) in Eye
Assess femoral area (you don't have to do this on	and Head/Neck sections. Described 1 thru 12 here:
fellow students)	$\Box$ CN 1 – assess smell
☐ Palpation for nodes	$\Box$ CN 2 – visual acuity, visual fields
☐ Palpate femoral pulse	□ CN 2 & 3 pupillary response to light
☐ Auscultation femoral artery (for bruits)	$\Box$ CN 3, 4, & 6 – extra-ocular movements
(*special test)	□ CN 5 sensory & motor face; corneal reflex
Assess knees (non-mechanical exam)	(sensory 5, motor 7) – (Describe only)
□ color, swelling	□ CN7 – facial expression; smile, puff
□ palpate popliteal artery pulse	cheeks, close eyes against resistance
Assess ankles/feet:	□ CN8 – hearing assessment
□ Color	If hearing loss, Webber and Rinne as per
□ Temperature	H&N section (*special test)
□ Check cap refill	□ CN 9 & 10 – gag, palate rise
□ Check for edema	□ CN 11 – neck turn/shoulder shrug
<u>Pulses</u>	□ CN12 – tongue movement
□ Dorsalis pedis artery	☐ Motor testing (patient seated):
□ Posterior tibial artery	□ muscle bulk of major groups (see below)
Neuro	□ tone of major groups (see below)
□ Higher Cognitive Function	□ strength of major groups – shoulders,
□ level of consciousness,	elbows, wrists, hand, hips, knees, ankle
Orientation to time, place, person and	, , , , , , ,
situation	
□ attention – subtract 7 from 100	

□ Sensory testing - in distal lower extremities:
□ pain
□ light touch
□ proprioception
□ vibration – 128 Hz tuning fork
□ Reflexes
□ biceps
□ brachioradialis
□ triceps
□ patellar
□ achilles
□ Babisnki assessment
□ Coordination (finger→nose, heel→shin, rapid
alternating finger movements, hand supination
$\leftarrow \rightarrow$ pronation,)
☐ Gait, Romberg
□ Wash Hands
*Special test denotes a maneuver that would only
be done in selected circumstances - based on the patient's symptoms and clinical presentation.

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