

## ABI Exam Outline

This outline provides a step-by-step procedure for conducting the basic ABI examination. For a more detailed description of each step, refer to Summit Doppler's ABI Diagnostic Examination Guide.

1. **LEFT ARM PRESSURE** - With patient lying down, take the left brachial pressure. Record the value on the ABI / Risk Assessment Form.
2. **RIGHT ARM PRESSURE** - Take the right brachial pressure and record the value on the report form.
3. **RIGHT ANKLE WAVEFORM\*** - Acquire arterial pulse with the Doppler at the right foot and print the waveform prior to taking the ankle pressure. Attach the waveform to the report form and mark the appropriate boxes.
4. **RIGHT ANKLE PRESSURE** - Take the right ankle pressure and record the value on the report form.
5. **LEFT ANKLE WAVEFORM\*** - Acquire arterial pulse with the Doppler at the left foot and print the waveform prior to taking the ankle pressure. Attach the waveform to the report form and mark the appropriate boxes.
6. **LEFT ANKLE PRESSURE** - Take the left ankle pressure and record the value on the report form.
7. **CALCULATE ABI VALUES** - Calculate the ABI for both sides. (For each side, divide the ankle pressure by the higher of the two arm pressures.)

*\* LifeDop ABI Vascular System only. Press the RED button on the side of the LifeDop to print the PREVIOUS four seconds of waveform data. To obtain optimum Doppler waveforms, be sure to maintain a 45 degree angle between the probe and artery. Use plenty of gel and minimize probe pressure that could compress the artery.*

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## Ankle Brachial Index (ABI) Examination Guide



LifeDop  
ABI  
VASCULAR SYSTEM

# Ankle/Brachial Index Chart

## Ankle Pressure (mmHg)

Ankle Pressure (mmHg)	Brachial Pressure (mmHg)																																
	200	195	190	185	180	175	170	165	160	155	150	145	140	135	130	125	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40
200	1.00	.98	.95	.93	.90	.88	.85	.83	.80	.78	.75	.73	.70	.68	.65	.63	.60	.58	.55	.53	.50	.48	.45	.43	.40	.38	.35	.33	.30	.28	.25	.23	.20
195	1.03	1.00	.97	.95	.92	.90	.87	.85	.82	.79	.77	.74	.72	.69	.67	.64	.62	.59	.56	.54	.51	.49	.46	.44	.41	.38	.36	.33	.31	.28	.26	.23	.21
190	1.05	1.03	1.00	.97	.95	.92	.89	.87	.84	.82	.79	.76	.74	.71	.68	.66	.63	.61	.58	.55	.53	.50	.47	.45	.42	.39	.37	.34	.32	.29	.26	.24	.21
185	1.08	1.05	1.03	1.00	.97	.95	.92	.89	.86	.84	.81	.78	.76	.73	.70	.68	.65	.62	.59	.57	.54	.51	.49	.46	.43	.41	.38	.35	.32	.30	.27	.24	.22
180	1.11	1.08	1.06	1.03	1.00	.97	.94	.92	.89	.86	.83	.81	.78	.75	.72	.69	.67	.64	.61	.58	.56	.53	.50	.47	.44	.42	.39	.36	.33	.31	.28	.25	.22
175	1.14	1.11	1.09	1.06	1.03	1.00	.97	.94	.91	.89	.86	.83	.80	.77	.74	.71	.69	.66	.63	.60	.57	.54	.51	.49	.46	.43	.40	.37	.34	.31	.29	.26	.23
170	1.18	1.15	1.12	1.09	1.06	1.03	1.00	.97	.94	.91	.88	.85	.82	.79	.76	.74	.71	.68	.65	.62	.59	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.24
165	1.21	1.18	1.15	1.12	1.09	1.06	1.03	1.00	.97	.94	.91	.88	.85	.82	.79	.76	.73	.70	.67	.64	.61	.58	.55	.52	.48	.45	.42	.39	.36	.33	.30	.27	.24
160	1.25	1.22	1.19	1.16	1.13	1.09	1.06	1.03	1.00	.97	.94	.91	.88	.84	.81	.78	.75	.72	.69	.66	.63	.59	.56	.53	.50	.47	.44	.41	.38	.34	.31	.28	.25
155	1.29	1.26	1.23	1.19	1.16	1.13	1.01	1.06	1.03	1.00	.97	.94	.90	.87	.84	.81	.77	.74	.71	.68	.65	.61	.58	.55	.52	.48	.45	.42	.39	.35	.32	.29	.26
150	1.33	1.30	1.27	1.23	1.20	1.17	1.13	1.10	1.07	1.03	1.00	.97	.93	.90	.87	.83	.80	.77	.73	.70	.67	.63	.60	.57	.53	.50	.47	.43	.40	.37	.33	.30	.27
145	1.38	1.34	1.31	1.28	1.24	1.21	1.17	1.14	1.10	1.07	1.03	1.00	.97	.93	.90	.86	.83	.79	.76	.72	.69	.66	.62	.59	.55	.52	.48	.45	.41	.38	.34	.31	.28
140	1.43	1.39	1.36	1.32	1.29	1.25	1.21	1.18	1.14	1.11	1.07	1.04	1.00	.96	.93	.89	.86	.82	.79	.75	.71	.68	.64	.61	.57	.54	.50	.46	.43	.39	.36	.32	.29
135	1.48	1.44	1.41	1.37	1.33	1.30	1.26	1.22	1.19	1.15	1.11	1.07	1.04	1.00	.96	.93	.89	.85	.81	.78	.74	.70	.67	.63	.59	.56	.52	.48	.44	.41	.37	.33	.30
130	1.54	1.50	1.46	1.42	1.38	1.35	1.31	1.27	1.23	1.19	1.15	1.12	1.08	1.04	1.00	.96	.92	.88	.85	.81	.77	.73	.69	.65	.62	.58	.54	.50	.46	.42	.38	.35	.31
125	1.60	1.56	1.52	1.48	1.44	1.40	1.36	1.32	1.28	1.24	1.20	1.16	1.12	1.08	1.04	1.00	.96	.92	.88	.84	.80	.76	.72	.68	.64	.60	.56	.52	.48	.44	.40	.36	.32
120	1.67	1.63	1.58	1.54	1.50	1.46	1.42	1.38	1.33	1.29	1.25	1.21	1.17	1.13	1.08	1.04	1.00	.96	.92	.88	.83	.79	.75	.71	.67	.63	.58	.54	.50	.46	.42	.38	.33
115	1.74	1.70	1.65	1.61	1.57	1.52	1.48	1.43	1.39	1.35	1.30	1.26	1.22	1.17	1.13	1.09	1.04	1.00	.96	.91	.87	.83	.78	.74	.70	.65	.61	.57	.52	.48	.43	.39	.35
110	1.82	1.77	1.73	1.68	1.64	1.59	1.55	1.50	1.45	1.41	1.36	1.32	1.27	1.23	1.18	1.14	1.09	1.05	1.00	.95	.91	.86	.82	.77	.73	.68	.64	.59	.55	.50	.45	.41	.36
105	1.90	1.86	1.81	1.76	1.71	1.67	1.62	1.57	1.52	1.48	1.43	1.38	1.33	1.29	1.24	1.19	1.14	1.01	1.05	1.00	.95	.90	.86	.81	.76	.71	.67	.62	.57	.52	.48	.43	.38
100	2.0	1.95	1.90	1.85	1.80	1.75	1.70	1.65	1.60	1.55	1.50	1.45	1.40	1.35	1.30	1.25	1.20	1.15	1.10	1.05	1.00	.95	.90	.85	.80	.75	.70	.65	.60	.55	.50	.45	.40
95	2.11	2.05	2.0	1.95	1.89	1.84	1.79	1.74	1.68	1.63	1.58	1.53	1.47	1.42	1.37	1.32	1.26	1.21	1.16	1.11	1.05	1.00	.95	.89	.84	.79	.74	.68	.63	.58	.53	.47	.42
90	2.22	2.17	2.11	2.06	2.0	1.94	1.89	1.83	1.78	1.72	1.67	1.61	1.56	1.50	1.44	1.39	1.33	1.28	1.22	1.17	1.11	1.06	1.00	.94	.89	.83	.78	.72	.67	.61	.56	.50	.44
85	2.35	2.29	2.24	2.18	2.12	2.06	2.0	1.94	1.88	1.82	1.76	1.71	1.65	1.59	1.53	1.47	1.41	1.35	1.29	1.24	1.18	1.12	1.06	1.00	.94	.88	.82	.76	.71	.65	.59	.53	.47
80	2.50	2.44	2.38	2.31	2.25	2.19	2.13	2.06	2.0	1.94	1.88	1.81	1.75	1.69	1.63	1.56	1.50	1.44	1.38	1.31	1.25	1.19	1.13	1.06	1.00	.94	.88	.81	.75	.69	.63	.56	.50

### Index

Above 1.30
0.90 to 1.30
0.70 to 0.89
0.40 to 0.69
0.39 and Below

### Assessment/Condition

Incompressible Artery
Normal
Mild Disease
Moderate Disease
Severe Disease

CPT Code: **93922** Non-invasive physiologic studies of upper or lower extremity arteries, single level, bilateral.

ICD9 Codes: **440 Atherosclerosis**  
 440.2 Of native arteries of the extremities  
 440.20 Atherosclerosis of the extremities, unspecified  
 440.21 Atherosclerosis of the extremities with intermittent claudication  
 440.22 Atherosclerosis of the extremities with rest pain  
 440.23 Atherosclerosis of the extremities with ulceration  
 440.24 Atherosclerosis of the extremities with gangrene

### 442 Other Aneurysm

442.3 Of artery of lower extremity

### 443 Other Peripheral Vascular Disease

443.9 Peripheral vascular disease, unspecified



Verify with your local Medicare and insurance providers for current reimbursements and applicable requirements for your area.