

Supplementary File 4a. AIC-selected logistic regression model statistics for 6% response threshold. Bolded odds ratio values and p-values indicate statistical significance ($\alpha = 0.05$).

	WEDG		WEDG+V-ARCH	
	Clinically-Accessible	Laboratory Derived	Clinically-Accessible	Laboratory Derived
Responder : Non-Responder	22:31	22:31	20:33	20:33
Model AIC	68.786	68.998	58.340	57.563
Model Likelihood Ratio (p-value)	<i>p</i> 0.010	0.011	<0.001	<0.001
H&L Goodness of Fit (p-value)	<i>p</i> 0.622	0.195	0.180	0.127
AUC ROC (c)	<i>c</i> 0.736	0.717	0.864	0.861
	95%CI (0.600, 0.875)	(0.575, 0.862)	(0.749, 0.978)	(0.747, 0.974)
Odds Ratios by Predictor Variable				
	<u>Knee Align (Clin)</u>	<u>Gait Speed (Lab)</u>	<u>Gait Speed (Clin)</u>	<u>Gait Speed (Lab)</u>
OR	1.203	1.438	1.800	2.003
95%CI	(0.995, 1.455)	(1.005, 2.056)	(1.162, 2.787)	(1.247, 3.217)
<i>p</i>	<i>0.056</i>	0.047	0.008	0.004
	<u>Gait Speed (Clin)</u>	<u>KL Grade</u>	<u>KL Grade</u>	<u>Sex</u>
OR	1.400	0.329	0.330	0.118
95%CI	(0.985, 1.990)	(0.099, 1.094)	(0.073, 1.499)	(0.017, 0.794)
<i>p</i>	<i>0.061</i>	<i>0.070</i>	<i>0.151</i>	0.028
			<u>Sex</u>	<u>KL Grade</u>
OR			0.149	0.201
95%CI			(0.026, 0.866)	(0.044, 0.928)
<i>p</i>			0.034	0.040
			<u>Knee Align (Clin)</u>	<u>Ankle Eversion (Lab)</u>
OR			1.221	1.274
95%CI			(0.965, 1.545)	(0.936, 1.736)
<i>p</i>			<i>0.097</i>	<i>0.124</i>

Abbreviations: AIC = Akaike information criterion, AUC = Area under curve, BMI = body mass index, FFI = Foot function index, FPI = foot posture index, H&L = Hosmer & Lemeshow, KL = Kellgren & Lawrence, OR = odds ratio, ROC = Receiver operating characteristic

Supplementary File 4b. AIC-selected logistic regression model statistics for 10% response threshold. Bolded odds ratio values and p-values indicate statistical significance ($\alpha = 0.05$).

	WEDG		WEDG+V-ARCH	
	Clinically-Accessible	Laboratory Derived	Clinically-Accessible	Laboratory Derived
Responder : Non-Responder	16:37	16:37	12:41	12:41
Model AIC	61.298	63.249	37.917	30.071
Model Likelihood Ratio (p-value)	<i>p</i> 0.009	0.022	<0.001	<0.001
H&L Goodness of Fit (p-value)	<i>p</i> 0.846	0.670	0.354	0.999
AUC ROC (c)	<i>c</i> 0.782	0.731	0.968	0.976
	95%CI (0.642, 0.922)	(0.575, 0.887)	(0.920, 1.000)	(0.937, 1.000)
Odds Ratios by Predictor Variable				
	<u>KL Grade</u>	<u>KL Grade</u>	<u>Knee Align (Clin)</u>	<u>Knee Align (Lab)</u>
OR	0.250	0.183	2.308	2.890
95%CI	(0.060, 1.045)	(0.046, 0.734)	(1.182, 4.666)	(1.069, 7.810)
<i>p</i>	0.058	0.016	0.015	0.036
	<u>Age</u>	<u>Age</u>	<u>Gait Speed (Clin)</u>	<u>Gait Speed (Lab)</u>
OR	1.109	1.072	2.502	3.944
95%CI	(0.995, 1.237)	(0.973, 1.181)	(1.177, 5.316)	(1.200, 12.965)
<i>p</i>	0.061	0.157	0.017	0.024
	<u>Knee Align (Clin)</u>		<u>Age</u>	<u>Sex</u>
OR	1.253		1.264	0.001
95%CI	(0.986, 1.591)		(1.012, 1.577)	(<0.001, 1.071)
<i>p</i>	0.065		0.038	0.052
			<u>KL Grade</u>	<u>KL Grade</u>
OR			0.078	0.023
95%CI			(0.005, 1.147)	(<0.001, 1.159)
<i>p</i>			0.063	0.059
			<u>Sex</u>	<u>Age</u>
OR			0.113	1.222
95%CI			(0.009, 1.440)	(0.985, 1.517)
<i>p</i>			0.093	0.068

Abbreviations: AIC = Akaike information criterion, AUC = Area under curve, BMI = body mass index, FFI = Foot function index, FPI = foot posture index, H&L = Hosmer & Lemeshow, KL = Kellgren & Lawrence, OR = odds ratio, ROC = Receiver operating characteristic