

Comparison of Restech to Impedance

First direct correlation of proton pump (H/K-ATPase) expression in human laryngeal epithelium with pharyngeal pH monitoring in patients with suspected laryngopharyngeal reflux

Becker, Valentin¹; Drabner, Romina¹; Schmid, Roland M.¹; Saur, Dieter¹; Graf, Simone Barbara²; Bajbouj, Monther¹

1. Klinikum rechts der Isar, Munich, Germany. 2. Klinikum rechts der Isar, Munich, Germany.

Restech Impedance agreement	Gender	Age	Restech agreement with outcome	Impedance agreement with outcome	Epithelium /Glands	Immuno- histo	Therapy response
1	m	74	+	+	-	-	+
2	f	49	+	-	-	-	-
3	m	78	+	+	-	-	-
4	m	57	-	-	-	-	-
5	m	46	+	-	-	-	+
6	f	59	+	+	+	+	+
7	m	53	-	-	-	-	-
8	f	40	-	-	-	-	-
9	m	52	+	+	-	-	+
10	m	46	+	-	-	-	-
11	f	62	+	-	+	-	+
12	f	77	+	-	-	-	-
13	f	63	-	-	-	-	-
14	m	51	+	-	-	-	-
15	f	64	+	-	-	-	+
16	f	75	+	-	-	-	+
17	m	55	-	+	-	-	-
18	m	53	+	-	-	-	+
19	f	75	+	-	-	-	+
20	m	65	-	+	-	-	-

1. 100% of positive responders 9/9 were identified by Restech - 0 false negatives
2. 33% of positive responders 3/9 were identified by Impedance - 6 false negatives
3. Restech has little concordance with Impedance 8 / 20 cases --- 40% agreement
4. Impedance predicts patient response 11 / 20 cases -- 60% predictive value
5. Restech predicts patient response 15 / 20 cases - 75% predictive value