

Survey round 2: Linear models for RIA category importance ratings

RIA category	model	sex = female				age/10				language region = non-German				practice location = periurban				practice location = rural				practice type = group practice				practice type = hospital			
		est	CI lower	CI upper	p	est	CI lower	CI upper	p	est	CI lower	CI upper	p	est	CI lower	CI upper	p	est	CI lower	CI upper	p	est	CI lower	CI upper	p	est	CI lower	CI upper	p
antibiotics	univariate	0.60	-1.48	2.68	0.57	-1.19	-2.02	-0.37	0.00	-2.57	-5.20	0.07	0.06	-1.29	-3.66	1.08	0.29	0.02	-2.39	2.43	0.99	3.59	1.27	5.91	0.00	4.12	1.24	7.01	0.01
	adjusted	-0.46	-2.71	1.80	0.69	-0.92	-1.91	0.07	0.07	-2.75	-5.44	-0.06	0.04	-0.47	-2.90	1.97	0.71	0.49	-2.02	3.00	0.70	2.85	0.43	5.28	0.02	2.90	-0.34	6.14	0.08
duplicated tests	univariate	1.02	-1.21	3.25	0.37	-0.84	-1.73	0.05	0.06	-0.45	-3.27	2.38	0.76	0.47	-2.08	3.01	0.72	0.04	-2.54	2.63	0.97	3.79	1.22	6.36	0.00	-0.19	-3.39	3.00	0.91
	adjusted	-0.50	-3.00	1.99	0.69	-1.19	-2.29	-0.10	0.03	-0.93	-3.90	2.05	0.54	0.25	-2.45	2.95	0.86	-0.02	-2.80	2.76	0.99	3.01	0.32	5.69	0.03	-1.73	-5.32	1.87	0.35
low back pain imaging	univariate	0.32	-1.91	2.56	0.78	-0.75	-1.64	0.14	0.10	-1.61	-4.44	1.22	0.27	0.56	-1.99	3.10	0.67	0.06	-2.52	2.64	0.96	3.05	0.50	5.60	0.02	1.23	-1.95	4.40	0.45
	adjusted	-0.67	-3.15	1.82	0.60	-0.59	-1.68	0.50	0.29	-1.08	-4.04	1.88	0.47	0.72	-1.97	3.40	0.60	-0.32	-3.08	2.45	0.82	2.71	0.04	5.38	0.05	0.57	-3.00	4.15	0.75
lipid measurements	univariate	2.59	0.13	5.06	0.04	-0.99	-1.97	0.00	0.05	-1.74	-4.86	1.38	0.28	-2.02	-4.83	0.79	0.16	0.38	-2.47	3.23	0.80	7.31	4.49	10.10	0.00	7.41	3.89	10.90	0.00
	adjusted	2.12	-0.63	4.87	0.13	0.21	-1.00	1.41	0.74	-0.96	-4.23	2.32	0.57	-1.04	-4.01	1.93	0.49	0.90	-2.16	3.95	0.57	6.96	4.01	9.91	0.00	7.29	3.34	11.20	0.00
routine chest X-ray	univariate	3.28	0.59	5.96	0.02	-1.66	-2.73	-0.59	0.00	3.53	0.13	6.92	0.04	-0.13	-3.19	2.94	0.94	-1.44	-4.55	1.67	0.36	5.28	2.22	8.34	0.00	1.53	-2.28	5.34	0.43
	adjusted	1.47	-1.50	4.43	0.33	-1.44	-2.74	-0.14	0.03	3.59	0.05	7.13	0.05	0.46	-2.75	3.66	0.78	-2.26	-5.56	1.04	0.18	4.23	1.04	7.42	0.01	-0.97	-5.23	3.30	0.66
PSA screening	univariate	4.30	1.18	7.42	0.01	-2.52	-3.76	-1.27	0.00	1.80	-2.15	5.74	0.37	-1.72	-5.28	1.85	0.35	-3.42	-7.04	0.20	0.06	7.76	4.21	11.30	0.00	13.10	8.73	17.60	0.00
	adjusted	2.38	-1.07	5.82	0.18	-0.82	-2.33	0.70	0.29	1.97	-2.14	6.08	0.35	-0.15	-3.88	3.58	0.94	-1.28	-5.12	2.56	0.51	6.85	3.14	10.60	0.00	11.40	6.43	16.40	0.00
MRI of the knee joint	univariate	5.97	2.93	9.01	0.00	-0.05	-1.27	1.17	0.94	4.45	0.60	8.29	0.02	1.12	-2.36	4.60	0.53	-2.47	-6.00	1.06	0.17	5.62	2.12	9.12	0.00	5.33	0.98	9.69	0.02
	adjusted	7.11	3.74	10.50	0.00	1.62	0.14	3.10	0.03	4.99	0.97	9.02	0.02	1.27	-2.38	4.92	0.50	-1.61	-5.37	2.15	0.40	5.72	2.09	9.35	0.00	6.34	1.48	11.20	0.01
cerebral imaging	univariate	1.44	-1.22	4.11	0.29	-0.45	-1.52	0.61	0.40	-0.97	-4.33	2.39	0.57	0.22	-2.82	3.26	0.89	-0.25	-3.33	2.83	0.87	3.31	0.27	6.35	0.03	1.46	-2.33	5.24	0.45
	adjusted	0.64	-2.32	3.60	0.67	-0.41	-1.71	0.89	0.53	-0.69	-4.21	2.84	0.70	-0.45	-3.65	2.75	0.79	-1.34	-4.63	1.95	0.43	2.83	-0.35	6.01	0.08	0.46	-3.80	4.72	0.83
statins	univariate	5.73	2.71	8.74	0.00	-1.52	-2.72	-0.31	0.01	-5.01	-8.82	-1.19	0.01	-5.70	-9.14	-2.27	0.00	1.19	-2.30	4.68	0.50	6.81	3.34	10.30	0.00	7.90	3.59	12.20	0.00
	adjusted	5.77	2.44	9.10	0.00	0.07	-1.39	1.54	0.92	-4.27	-8.24	-0.29	0.04	-5.19	-8.80	-1.58	0.00	1.63	-2.08	5.34	0.39	5.33	1.74	8.91	0.00	6.35	1.55	11.10	0.01
iron infusion	univariate	8.89	5.85	11.90	0.00	-0.25	-1.48	0.98	0.69	3.12	-0.76	7.01	0.12	-1.46	-4.97	2.05	0.41	-1.48	-5.04	2.08	0.42	4.64	1.14	8.15	0.01	-9.88	-14.20	-5.52	0.00
	adjusted	8.95	5.60	12.30	0.00	-0.52	-1.99	0.96	0.49	3.45	-0.55	7.45	0.09	-3.09	-6.72	0.53	0.09	-4.25	-7.99	-0.52	0.03	2.66	-0.95	6.26	0.15	-13.30	-18.20	-8.51	0.00
intramuscular injection	univariate	8.41	4.66	12.10	0.00	-2.36	-3.86	-0.86	0.00	12.70	7.96	17.30	0.00	-6.67	-10.90	-2.40	0.00	-7.89	-12.20	-3.56	0.00	8.94	4.64	13.20	0.00	16.00	10.60	21.30	0.00
	adjusted	7.41	3.32	11.50	0.00	0.65	-1.15	2.45	0.48	13.60	8.69	18.50	0.00	-3.25	-7.68	1.18	0.15	-4.87	-9.44	-0.31	0.04	8.70	4.30	13.10	0.00	14.40	8.52	20.30	0.00
vitamin D3 measurement	univariate	-0.39	-3.80	3.02	0.82	-1.57	-2.93	-0.22	0.02	6.30	2.02	10.60	0.00	-2.15	-6.03	1.73	0.28	-1.40	-5.35	2.54	0.48	6.01	2.12	9.89	0.00	10.10	5.28	15.00	0.00
	adjusted	-2.59	-6.35	1.17	0.18	-0.94	-2.59	0.72	0.27	7.83	3.34	12.30	0.00	-0.87	-4.95	3.20	0.67	-0.12	-4.31	4.07	0.95	6.35	2.30	10.40	0.00	9.25	3.83	14.70	0.00
CRP or blood count	univariate	5.78	2.23	9.33	0.00	-2.45	-3.86	-1.03	0.00	16.40	12.00	20.80	0.00	-7.49	-11.50	-3.46	0.00	-7.45	-11.50	-3.36	0.00	6.19	2.14	10.20	0.00	15.90	10.80	20.90	0.00
	adjusted	4.29	0.45	8.14	0.03	-0.06	-1.75	1.63	0.94	15.70	11.10	20.30	0.00	-4.54	-8.70	-0.38	0.03	-3.72	-8.00	0.57	0.09	6.18	2.04	10.30	0.00	13.90	8.38	19.50	0.00
routine check-up	univariate	3.33	-0.15	6.81	0.06	-0.82	-2.20	0.57	0.25	-4.42	-8.80	-0.05	0.05	-1.32	-5.29	2.64	0.51	0.06	-3.97	4.08	0.98	3.97	0.01	7.94	0.05	12.40	7.50	17.40	0.00
	adjusted	4.21	0.36	8.06	0.03	1.59	-0.10	3.28	0.07	-4.28	-8.88	0.31	0.07	-0.59	-4.75	3.58	0.78	1.46	-2.83	5.75	0.50	3.98	-0.17	8.12	0.06	14.00	8.43	19.50	0.00
routine follow-up encounter	univariate	-1.58	-4.92	1.76	0.35	-0.46	-1.79	0.88	0.50	-1.93	-6.13	2.27	0.37	5.38	1.59	9.17	0.01	3.60	-0.24	7.45	0.07	5.61	1.81	9.41	0.00	-2.82	-7.55	1.91	0.24
	adjusted	-2.86	-6.55	0.83	0.13	-1.16	-2.78	0.46	0.16	-0.50	-4.90	3.91	0.83	3.67	-0.33	7.66	0.07	0.27	-3.84	4.38	0.90	5.44	1.47	9.41	0.01	-3.28	-8.59	2.04	0.23
routine ECG	univariate	3.37	0.01	6.73	0.05	0.74	-0.60	2.08	0.28	12.60	8.47	16.80	0.00	0.28	-3.55	4.10	0.89	-2.50	-6.39	1.38	0.21	5.21	1.38	9.04	0.01	1.00	-3.76	5.77	0.68
	adjusted	4.45	0.80	8.11	0.02	2.02	0.42	3.63	0.01	13.60	9.26	18.00	0.00	1.17	-2.79	5.13	0.56	-1.03	-5.11	3.04	0.62	6.67	2.74	10.60	0.00	3.25	-2.01	8.52	0.23

Legend:
Presented are coefficients b (est)* with 95% confidence intervals (CI) and p -values from the models "importance ~ a + bx" (univariate model) and "importance ~ a + bx + b₂x₂ + ... + b₅x₅" (adjusted model). (Not shown: Log-linear models were fitted to log-transformed ratings with similar results which are provided on request.)
*Coefficients refer to reference levels sex = male, language region = German, practice location = urban, practice type = single practice, or to an age increase by 10 years, respectively.
Colours indicate (formal) significance with thresholds of $\alpha_1 = 0.05$ (yellow) and $\alpha_2 = 0.05 / (16 * 7) = 0.000446$ (red).