

**Additional File 2.** The 16 most frequent RIAs ranked by importance (survey round two) on a numerical analogue scale 0-100 for each item. Abbreviations: see table 2. Highlighted in grey: RIAs that correspond to the T5L (3)

Rank	Intervention to Avoid, categorized (short name)	Median (IQR)	Mean (SD)
1	antibiotics	100 (8)	91.7 (18.6)
2	duplicated tests	99 (11)	89.3 (19.9)
3	low back pain imaging	97 (12)	88.5 (19.9)
4	lipid measurements	91 (25)	83.2 (22.0)
5	routine chest X-ray	90 (27)	81.2 (23.9)
6	PSA screening	81 (46)	73.2 (27.7)
7	MRI of the knee joint	80 (44)	72.1 (27.1)
8	cerebral imaging	80 (35)	75.3 (23.6)
9	statins	78 (42)	71.0 (26.9)
10	iron infusion	75 (40)	69.0 (27.3)
11	intramuscular injection	70 (59)	63.2 (33.4)
12	vitamin D3 measurement	69 (41)	63.8 (30.2)
13	CRP or blood count	64 (50)	61.0 (31.6)
14	routine check-up	62 (48)	61.2 (30.8)
15	routine follow-up encounter	56 (43)	58.4 (29.5)
16	routine ECG	53 (48)	55.8 (29.8)