Supplemental Figure 1. Levels of distinctions in analysis

Distinction 1: Whether there is Distinction 2: Further distinctions based on evidence-base to support validity of Distinction 3: Further distinctions based on the test as a diagnostic or screening different implications for medical overuse different implications for medical overuse tool for the stated condition (i) Professional recommendations for asymptomatic screening or not Cat. 1 There are professional There are professional recommendations for screening recommendations against the asymptomatic populations or use of this test based on higher risk groups using this test concerns for medical overuse Evidence-based tests (e.g. Choosing Wisely or NICE 'Do Not Do' recommendations) There are *no* professional recommendations for screening The test has low specificity & Cat. 2 asymptomatic populations or low sensitivity higher risk groups using this test The test has low pre-test probability (ii) Used to indicate health vs disease The test is sold as a commercial Cat. 3 'health check' that would not be The test in itself is not used as such in a clinical setting Non-evidence-based tests recognised by the general medical community The test is not recognised by the The test is for a condition that **4B** Cat. 4 medical community for the is not recognised by the general purpose that it states medical community