Knowledge items	Evidence for most appropriate response	MAR	MAR range	MAR test area
What is the likelihood that a 50-year- old patient having cancer at the time you choose to refer the patient to a cancer fast-track pathway?	Evidence for cancer symptoms' PPVs: Hamilton W. Br J Cancer 2009. The CAPER studies: five case-control studies aimed at identifying and quantifying the risk of cancer in symptomatic primary care patients. 3-8% The actual risk of cancer when the GP refers might be higher than the symptoms PPV since the patient could present more signs. If the PPV for cancer is over 5-10% the patient perhaps should have been referred at an earlier time point. Evidence for PPV for diagnosing cancer in fast track referrals: Meechan et al. Br J Gen Pract. 2012: Variation in use of the 2-week referral pathway for suspected cancer: a cross-sectional analysis. All cancer types: 9-14% Guldbrandt et al. PLoS One 2014: Implementing Direct Access to Low-Dose Computed Tomography in General Practice—Method, Adaption and Outcome. 10.2% (Lung cancer) Evidence for PPV for diagnosing cancer in fast track referral for a 50-year-old patient. Baughan. Br J Gen Pract. 2011: Urgent suspected cancer referrals from general practice: audit of compliance with guidelines and referral outcomes. 40-49 years: 8.6%, 50-59 years: 14.3%	5%	2-10%	2% ≥R≤ 10%
What is the likelihood that a patient aged 40 years or more, who is smoker, has lung cancer the second time s/he presents with haemoptysis in your practice?	Evidence for PPV of a repeated cancer symptom for lung cancer: Hamilton W. MD thesis, 2005: Towards earlier diagnosis of cancer in primary care: a population-based case-control study of colorectal, lung and prostate cancer. 12%	12%	5-20%	5% ≥R≤20%
What is the likelihood that a patient aged 40 years or more has colorectal cancer the first time that s/he presents with unintended weight loss and new onset of constipation in your practice?	Evidence for PPV of combined cancer symptoms for colorectal cancer: Hamilton W. BJC 2009: The CAPER studies: five case-control studies aimed at identifying and quantifying the risk of cancer in symptomatic primary care patients. 3%	3%	2-6%	2% ≥ R≤ 6%
What is the likelihood that a lung cancer cannot be detected on a chest x-ray at the time of diagnosis?	Evidence for risk of negative chest X-ray despite lung cancer Bjerager. PhD thesis: Delay in diagnosis and treatment of lung cancer. 18% Stapley et al: Negative chest X-rays in primary care patients with lung cancer. Br J Gen Pract. 2006 23% Quekel et al. Chest 1999: Miss rate of lung cancer on the chest radiograph in clinical practice. 19%	20%	15-25%	R≥ 15%
What is the proportion of patients with colorectal cancer who presented an alarm symptom as the first sign of the disease to his/her general practitioner?	Evidence for initial symptom presentation for cancer patients Nielsen et al. Ugeskr. Læger [Weekly Journal for Physicians (Danish medical journal)].2010: Symptom presentation in cancer patients in general practice. 49%	49%	40-60%	R≤ 60%
What is the proportion of patients with ovarian cancer who can be detected by a pelvic examination in general practice at the time of diagnosis?	Evidence for that pelvic examination is not useful to exclude the risk of ovarian cancer Hamilton et al. BMJ 2009: Risk of ovarian cancer in women with symptoms in primary care: population based case-control study. 33%	33%	25-41%	R≤ 41%