

## Restricted

ANNEX D (Taken from MOH's Screening Test Review Committee 2019)

### **LIST OF CATEGORY 2 SCREENING TESTS<sup>1</sup>**

No.	Screening Test	Disease	High Risk Group
1.	Abdominal Ultrasonography	Abdominal Aortic Aneurysm	Men aged 65 to 75 who have ever smoked
2.	Alpha-Fetoprotein	Liver Cancer	Hepatitis B carrier or individuals with liver cirrhosis
3.	Ankle Brachial Index	Peripheral Vascular Disease	Individuals with diabetes mellitus; Individuals aged 50-70 yrs and are smokers or with both hypertension and hyperlipidaemia
4.	Antenatal and Pregnancy Screening Tests	Antenatal and Foetal abnormalities (Congenital)	All pregnant women
5.	Apolipoprotein A and B	Coronary Heart Disease	Individuals with intermediate Coronary Heart Disease risk
6.	Audiometry	Hearing Loss in adults	Individuals exposed to excessive noise
7.	Bone Mineral Density Scan	Osteoporosis	Individuals with high Osteoporosis risk e.g. high OSTA score
8.	Chest X-ray	Tuberculosis (TB)	Close Contacts; Foreigners from countries with high disease prevalence
9.	CT Colonography	Colorectal Cancer	Individuals above 50 yrs not going for screening colonoscopy or FIT
10.	CT Coronary Calcium Score	Coronary Heart Disease	Individuals with intermediate coronary heart disease risk
11.	Down Syndrome Screening	Down Syndrome	All pregnant women

<sup>1</sup> Category 2 screening tests are suitable for individual-level decisions; the screening tests may be useful for high-risk populations, or there is evidence that the screening tests are effective, but favourable cost-effectiveness has not been established.

Restricted

## Restricted

No.	Screening Test	Disease	High Risk Group
12.	Electrocardiography	Coronary Heart Disease	Individuals with intermediate Coronary Heart Disease risk
13.	Faecal immunochemical test (FIT) – DNA test	Colorectal Cancer	Individuals aged 50 yrs and above
14.	Full Blood Count	Anaemia (Iron-deficiency)	All pregnant women, women of childbearing age, high risk infants, high risk children
15.	Hepatitis B Screen	Hepatitis B Infection	All pregnant women; Asymptomatic Singapore residents with no known hepatitis B carrier status and have not been previously vaccinated; Healthcare workers; Immigrants from countries where Hepatitis B is endemic; Persons with known exposure to HBV; Persons on chronic haemodialysis; Intravenous drug abusers; Persons who have undergone invasive procedures in healthcare facilities with inadequate infection control practices; Persons with HBV-positive or at-risk sex partners; HIV patients
16.	Hepatitis C Screen	Hepatitis C Infection	Children born to HCV-positive mothers; Persons with known exposure to HCV; Persons on chronic haemodialysis; Intravenous drug abusers; Persons who have undergone invasive procedures in healthcare facilities with inadequate infection control practices; Persons with HCV-positive or at-risk sex partners; Healthcare workers; HIV patients
17.	hsCRP	Coronary Heart Disease	Individuals with intermediate Coronary Heart Disease risk
18.	Human Immunodeficiency Virus (HIV) screen	Human Immunodeficiency Virus Infection	All pregnant women; Healthcare workers; Individuals with active TB infection; Individuals with at-risk sexual behaviour; Intravenous drug abusers, Persons with HIV-positive or at-risk sex partners; Persons with known HIV exposure
19.	Interferon-Gamma Release Assay	Tuberculosis (TB)	Close contacts of TB; High-risk individuals: HIV, patients receiving anti-TNF agents, dialysis, transplants (solid organ and haematological)

Restricted

## Restricted

20.	Kidney Function Test	Kidney Disorder/ Dysfunction	Individuals with Diabetes Mellitus or Hypertension or Cardiovascular Disease; Individuals aged 50 yrs and above who are smokers; Individuals with a family history of End-Stage Renal Failure
-----	----------------------	------------------------------	---

No.	Screening Test	Disease	High Risk Group
21.	Low-dose CT Screening	Lung Cancer	Individuals aged between 55-74 who have smoked $\geq 30$ pack years and are continuing to smoke; Individuals aged between 55 to 74 who have smoked $\geq 30$ pack years but quit $<15$ years ago
22.	MRI/ MRA Brain	Cerebral Aneurysm	Individuals with a personal or family history of 2 or more first-degree relatives with subarachnoid haemorrhage; Individuals with Autosomal Dominant Polycystic Kidney Disease
23.	MRI Breast	Breast Cancer	Proven BRCA carriers; Women at high genetic risk for Breast Cancer;  Women with Breast Injection augmentation that severely impairs evaluation of the breasts on mammography and sonography
24.	Nasopharyngoscopy	Nasopharyngeal Carcinoma	Individuals with a first degree relative with Nasopharyngeal Carcinoma
25.	Oesophago-Gastro Duodenoscopy	Gastric Cancer	Individuals with Hereditary Non-Polyposis Colon Cancer or Lynch Syndrome
26.	Pelvis X-ray (Antero posterior)	Spastic Hip Displacement	Children with Cerebral Palsy
27.	Prostate-Specific Antigen (PSA)	Prostate Cancer	Men aged 50 to 70 yrs; High-risk men such as men with a strong family history of Prostate Cancer may be offered screening at an earlier age
28.	Retinal Fundal Photography	Diabetic Retinopathy	All individuals with Diabetes Mellitus

Restricted

## Restricted

29.	ROP Screen	Retinopathy of Prematurity	Infants with birth weight <1500g; Gestational age < 32 wks; Prolonged oxygen use
30.	Rubella Serology	Rubella	All pregnant women
31.	Stool for ova, cyst and parasites	Intestinal Parasitic Infection	Immigrants from countries with high disease prevalence

No.	Screening Test	Disease	High Risk Group
32.	Syphilis Enzyme Immunoassay (EIA)	Syphilis	All pregnant women; Individuals with at-risk sexual behaviour; HIV patients
33.	Thalassemia Screen	Thalassemia	Pregnant women from ethnic groups with high disease prevalence; Individuals with a family history of Thalassemia
34.	Thyroid Function Test	Thyroid disorder	Obese individuals; Individuals with autoimmune disease; Pregnant women with Diabetes Mellitus or Adrenal Disease
35.	Transvaginal Ultrasound	Ovarian Cancer	BRCA carriers
36.	Treponema Pallidum Particle Agglutination / Treponema Pallidum Haemagglutination	Syphilis	All pregnant women; Individuals with at-risk sexual behaviour
37.	Treadmill Stress Test	Coronary Heart Disease	Individuals with an intermediate Coronary Heart Disease risk
38.	Tuberculin Skin Test	Tuberculosis (TB)	Close contacts of TB
39.	Tumour Marker for NPC (EBV-EA-EBNA-1)	Nasopharyngeal Carcinoma (NPC)	Individuals with a first degree relative with NPC

Restricted

## Restricted

40.	Ultrasound Hepatobiliary System	Liver Cancer	Hepatitis B carriers; Individuals with liver cirrhosis
41.	Ultrasound Pelvis	Endometrial Cancer	Individuals with Hereditary non-polyposis colon cancer or Lynch syndrome
42.	Urine Analysis	Kidney Disorder/ Dysfunction	Individuals with Diabetes Mellitus or Hypertension or Cardiovascular Disease; Individuals aged 50 yrs and above who are smokers; Individuals with a family history of End-Stage Renal Failure
43.	Urine or Cervical/Urethral swab for PCR	Chlamydia and Gonorrhoea	Individuals with at-risk sexual behaviour
<b>No.</b>	<b>Screening Test</b>	<b>Disease</b>	<b>High Risk Group</b>
44.	Urine Microalbumin/ Creatinine ratio	Diabetic Albuminuria/ Nephropathy	All individuals with Diabetes Mellitus
45.	Vaginal and Rectal swab	Maternal colonisation with GBS in pregnancy	All pregnant women between 35 and 37 weeks gestation.

Restricted