EU CanScreen
European Joint Action on Cancer Screening

Whitebook for new cancer screening implementation

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I declare no conflict of interest related to this presentation

The three new area for cancer screening

- **Lung Cancer:** Low-dose computed tomography (**LDCT**) screening for current and heavy former smokers (integrated with smoking cessation support).
- **Prostate Cancer:** Organized testing using **prostate-specific antigen (PSA)** blood tests combined with risk-adapted follow-up (such as MRI).
- **Gastric Cancer:** Helicobacter pylori "screen-and-treat" strategies targeted in high-incidence regions.

Aims and background of the Whitebook

- To provide a hamonised European methodology with performance indicators for cancer screening on
- lung
- gastric
- prostate cancer

to facilitate and support their implemetation in the member states

Background evidence coming from:

- Randomised international studies, reports from piot studies, systematic reviews/metaanalyses

- global networks

- national, international pilots

- EU-wide implementation studies:
- SOLACE
- TOGAS
- PRAISE-U

Building blocks of the Whitebook

- Current state of play in control of lung, gastric and prostate cancer
- Potential modes of prevention
- Current landscape
- Benefit/harm balance
- Cost/benefit ratio
- Screening-related workflow
- Potential KPIs to establish/maintain high-quality screening programs
- Call for policy-makers

- Three main chapters covering
- Lung
- Gastric
- Prostate cancer screening

  - Risk group identification
  - Type of screening
  - Potential combination of preventive efforts
  - Clinical pathway management

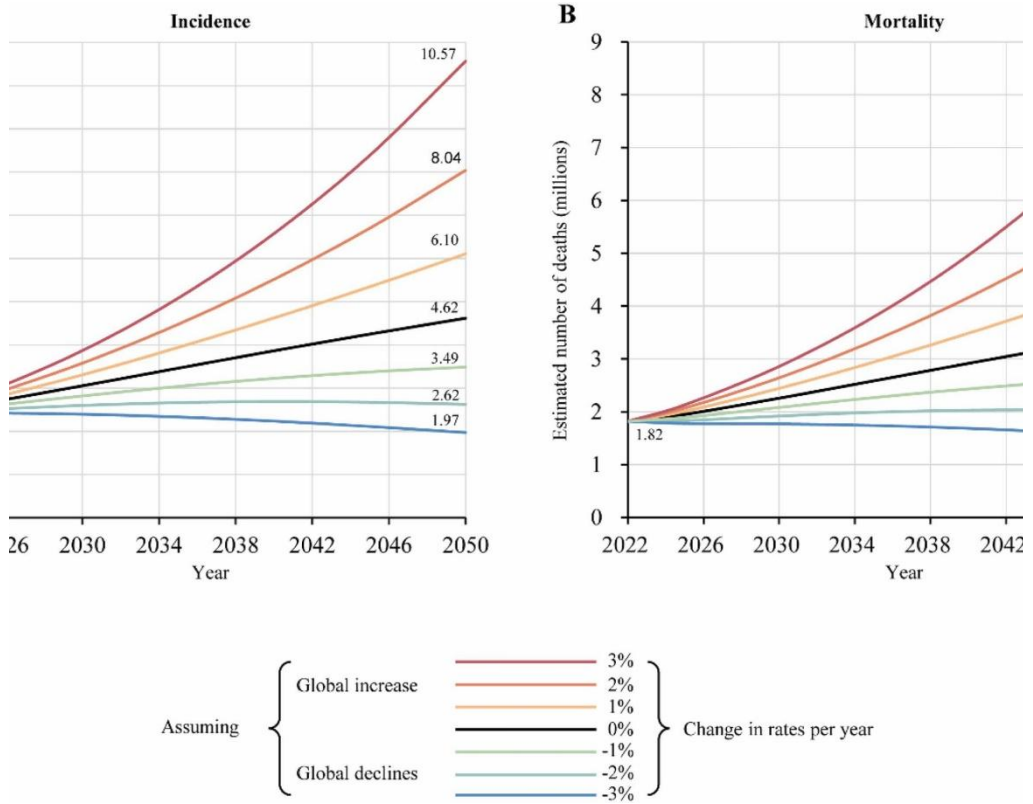
Key steps covered in the screening process

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1. **Eligibility**
   - Definition
   - Identification
2. **Invitation**
   - GP
   - Mediators
   - Occupational health
3. **LDCT site**
   - Administrator
   - CT assistant
   - Extra personal
4. **Waiting period for the results**
   - Cessation
5. **After the results**
   - Clinical patient pathway

Lung cancer: need for prevention

- Incidence and mortality will increase
- **unless an annual reduction of 3 % or more in rates is attained.**
- Identify and execute targeted interventions to enhance advancements in **the prevention** and management of lung cancer.



Zhou J, Xu Y, Liu J, Feng L, Yu J, Chen D. Global burden of lung cancer in 2022 and projections to 2050: Incidence and mortality estimates from GLOBOCAN. Cancer Epidemiol. 2024 Dec;93:102693

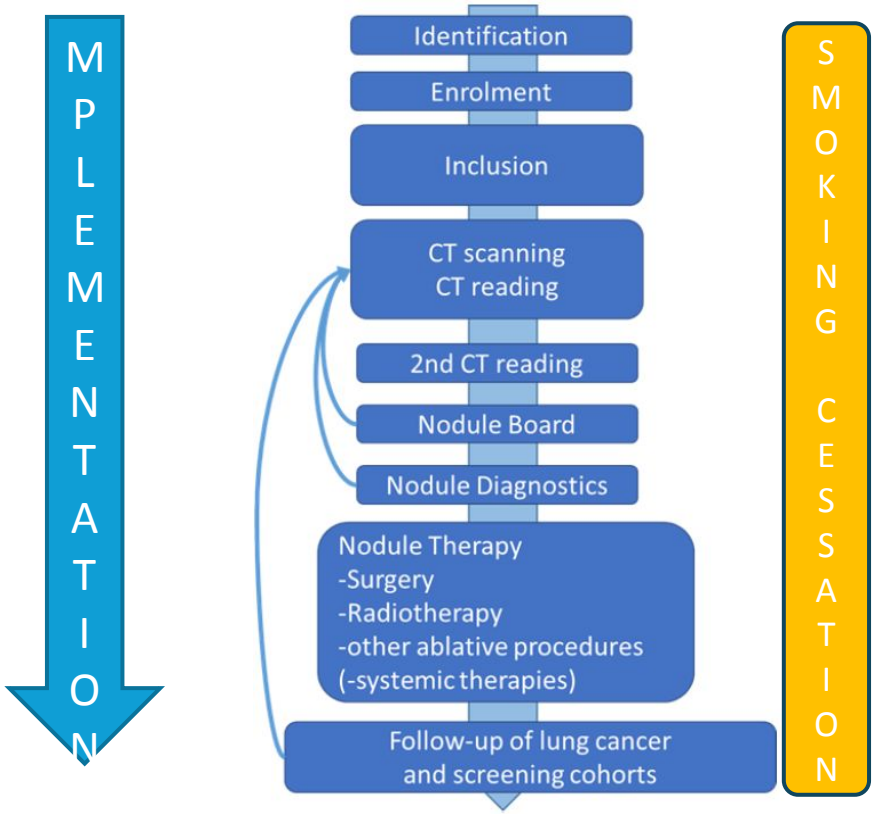
Tornyi I et al. Individual and population level bnefits of lung cancer screening Eur Respir Rev 2026. in press

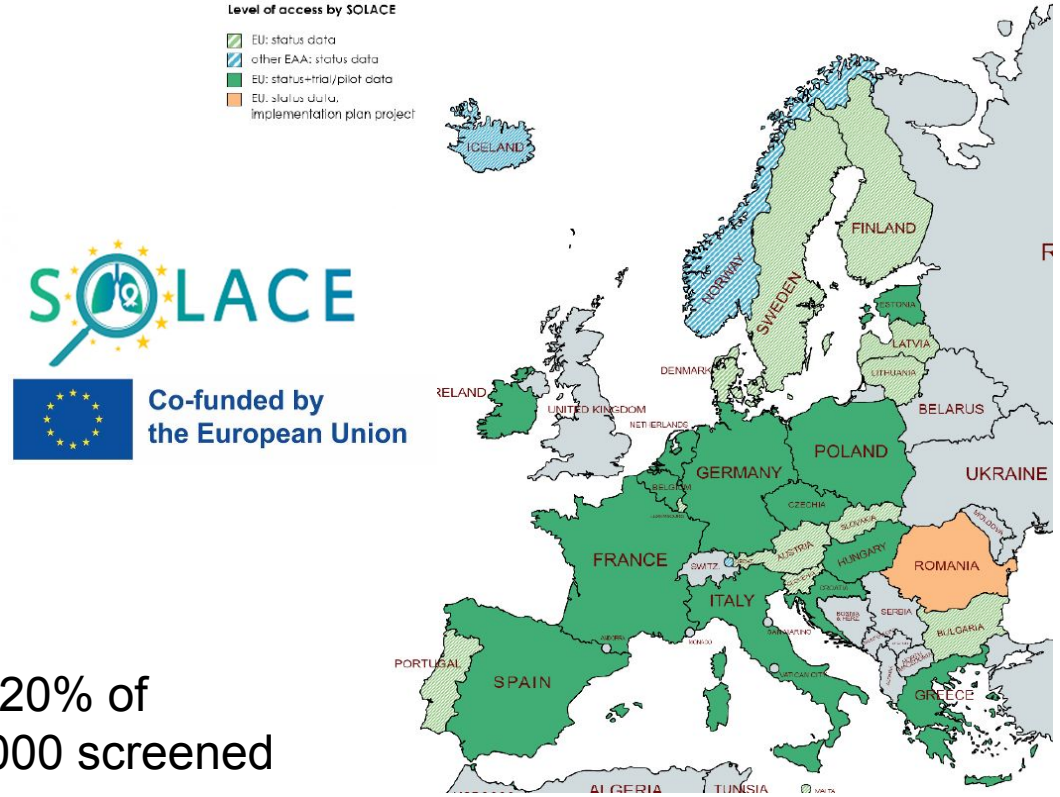
Prevention of lung cancer

- **Primary prevention:**
  - Tobacco control
    - Prevent pople to become smokers
    - Support smoking cessation programmes
- **Secondary prevention:**
  - LDCT screning for high-risk individuals
- **Coupling of primary and secondary prevention**
  - Smoking cessation support coupled to LCS



SOLACE: facilitating implementation of LCS





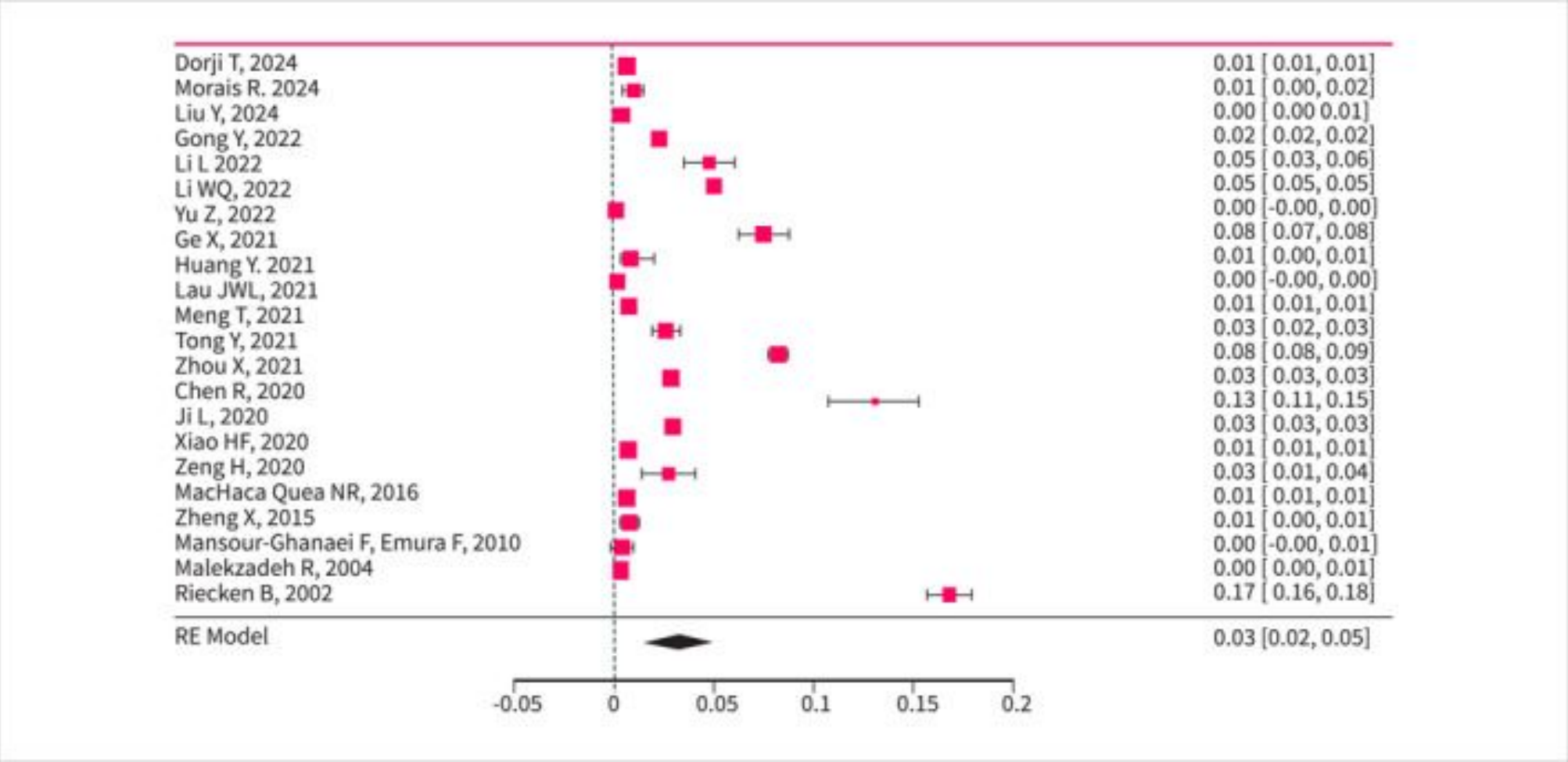
SOLACE

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In >20% of 15.000 screened

Kauczor HU, von Stackelberg O, Nischwitz E, Chorostowska-Wynimko J, Hierath M, Mathonier C, Prosch H, Zolda P, Revel MP, Horváth I, Vašáková MK, Powell P, Samarzija M, Blum TG; and SOLACE Consortium. Strengthening lung cancer screening in Europe: fostering participation, improving outcomes, and addressing health inequalities through collaborative initiatives in the SOLACE consortium. Insights Imaging. 2024 Oct 22;15(1):252.

Gastric cancer screening effectiveness



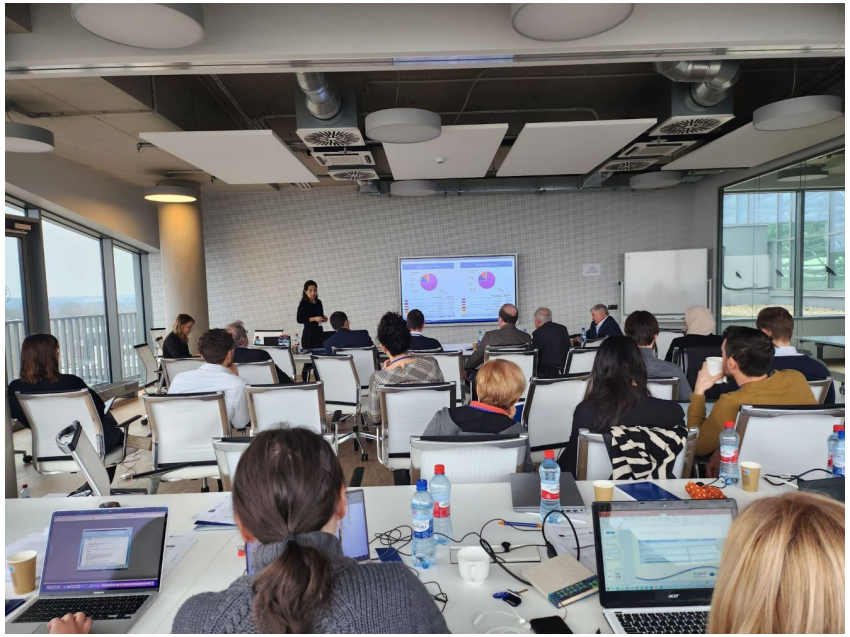
Mourato MB et al UN Eur Gastroent J 2025;13:1715-1729

Building on the achievements of TOGAS

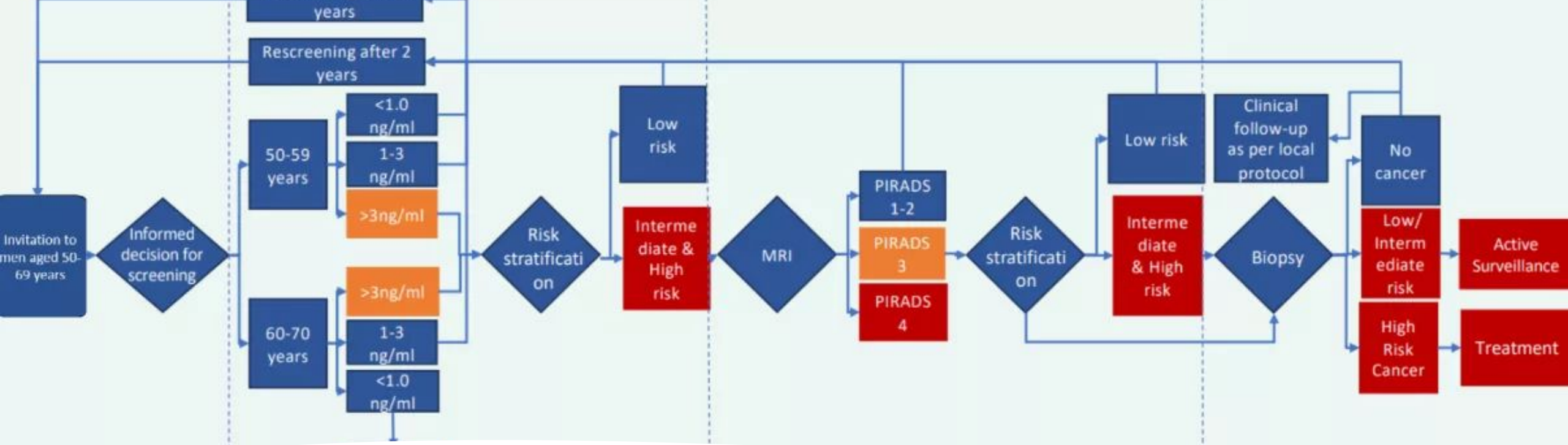
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***Helicobacter pylori* Screen-and-Treat Programs for Gastric Cancer Prevention - IARC Working Group Report**
NEJM 2026;394:1131-1137

Overview of Gastric Cancer Prevention Initiatives in Europe
Leja M et al. 2026;31:e126







Building on the results of PRAISE-U

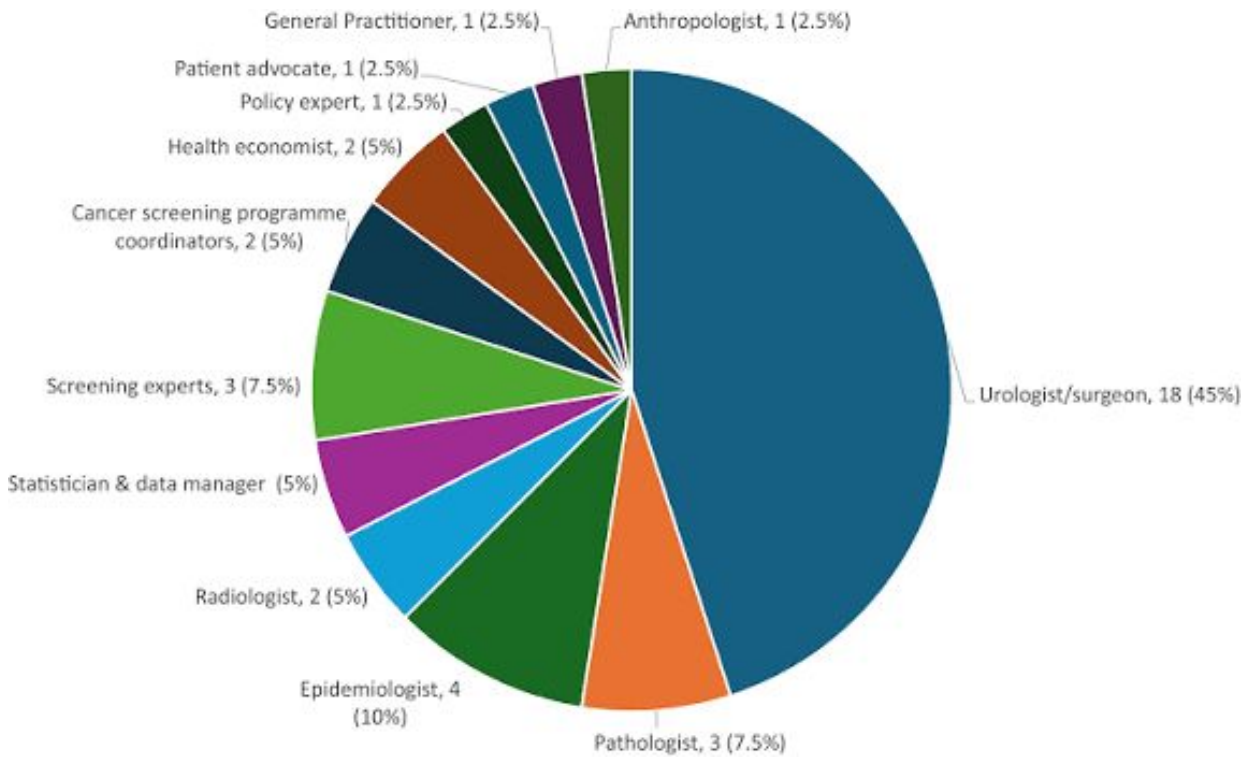
Mapping the readiness landscape for prostate cancer screening in Europe: analysis of health system capacity across the PRAISE-U pilots

Palaniraja S et al. EClinicalMedicine 2026 Aug 6:99:104093.

The future of prostate cancer screening in the European Union: PRAISE-U project

J Gomez Rivas Actas Urol Esp (Engl Ed) 2026;50:501919

Prostate cancer screening KPIs



Monitoring of prostate cancer screening in the European Union: development of key performance indicators through
the PRAISE-U project
Singh D et al. eClinicalMed 2025;80:103022

EUCanScreen White Book

- Policy recommendations and implementation blueprints for health authorities to

Expanding Screening Targets

Harmonizing Healthcare Data

Bridging Health Disparities

Thank you

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