Name: Natália Pereira

Country: Portugal

Affiliation: Directorate-General of Health

Function: Head of Vaccines, Immunization and Biological Products

Unit

Main expertise:

Specialist in national immunization programmes, with experience in planning, implementing, monitoring and evaluating vaccination strategies.

Leadership in public health initiatives, having coordinated the DGS Task Force during the COVID-19 pandemic.

Regular collaboration with national and international bodies, including ECDC, WHO and OECD.





Session 4: Implementation and delivery of adult vaccination services in Portugal

From DGS Perspective



Adult immunization in Portugal: successes, lessons learned and the way forward

Natália Pereira

Directorate-General of Health

Vaccines, Immunization and Biological Products
Unit



Adult Vaccination | A Life-Course Strategy

- 1. Life-course vaccination approach
- 2. Continuous **scientific evaluation**: translation of evidence into clinical guidance
- 3. Alignment with EU and international recommendations, adapted to the Portuguese epidemiological and healthcare context.





Blue Book of Vaccines

- <u>Blue Book of Vaccines</u>: National immunization programme and other immunization strategies
- Collaborative technical reference that aims to provide information on vaccines and immunoglobulins, keeping pace with their rapid scientific and technological development, as well as with changes in disease epidemiology
- Continuously updated document that enables real-time adjustments to vaccination and immunisation recommendations
- It supports evidence-based vaccination strategies and the dissemination of reliable, accessible information, reinforcing Portugal's commitment to modern, adaptable vaccination policies





Parte 1 : Programa Nacional de Vacinação

Vacinação de adultos*

Ao longo da vida, a proteção adquirida através da vacinação efetuada durante a infância, pode diminuir para algumas doenças (conhecido como araning vacinal), o que pode justificar a recomendação de administração de doses adicionais de reforço, que garantam a manutenção da proteção. Por outro lado, o envelhecimento é acompanhado por um decréscimo natural da imunidade, processo conhecido por imunossenescência, ternando os individuos idoses mais vulneráveis a infoções."

Durante a gravidez, alterações no sistema imunitário podem tomar a grávida mais suscetivel a infeções e, a vacinação da grávida, para além de contribuir para a sua proteção individual, contribui também para a proteção do recém-nascido nos seus primeiros meses de vida.

Algumas doenças crónicas ou medicamentos podem levar a um estado de imunossupressão, podendo justificar a vacinação de grupos de risco específicos em idade adulta.

Avacinação de adultos pode ser importante, também, no contexto de viagens internacionais para países endémicos para determinadas doenças e para a manutenção da imunidade de grupo, protegendo os indivíduos suscetíveis da população.²

Tal como as estratégias para grupos com circunstâncias especiais, a maioria das estratégias vacinais disponíveis para adultos têm em consideração critérios de risco acrescido (idade mais avançada, comorbilidades ou contextos de risco) que se traduzem numa relação de riscobeneficio adequada para a implementação de uma estratégia populacional custo-efetiva.

Durante toda a vida, recomendam-se as vacinas elencadas no Quadro n.º 1.

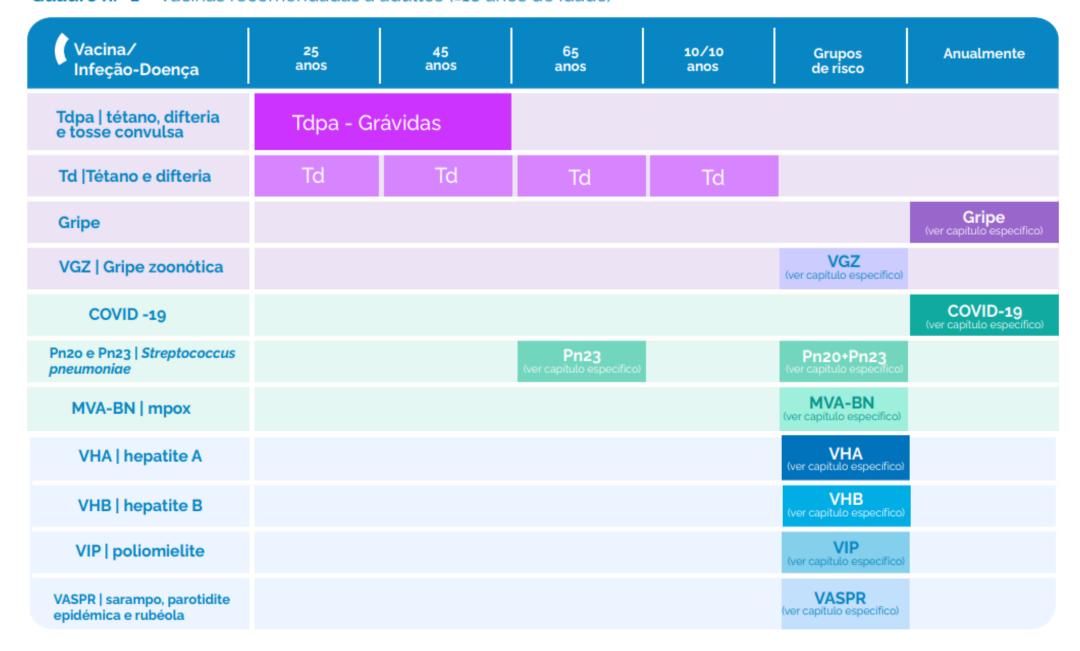
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Adult Vaccination | A Life-Course Strategy

Adult vaccination in National Vaccination Program

- Healthy adults and ageing population: chronic diseases and immunosuppression; pregnancy, occupational risk and travel.
- Consider increased risk criteria (older age, comorbidities or risk contexts).
- Appropriate risk-benefit relationship for implementing a cost-effective population strategy.

Quadro n.º 1 - Vacinas recomendadas a adultos (≥18 anos de idade)





Adult Vaccination | Systems Supporting

1. Information systems

- a. Electronic Vaccination Registry | VACINAS®
- b. Dashboards | Monitoring Vaccination Data





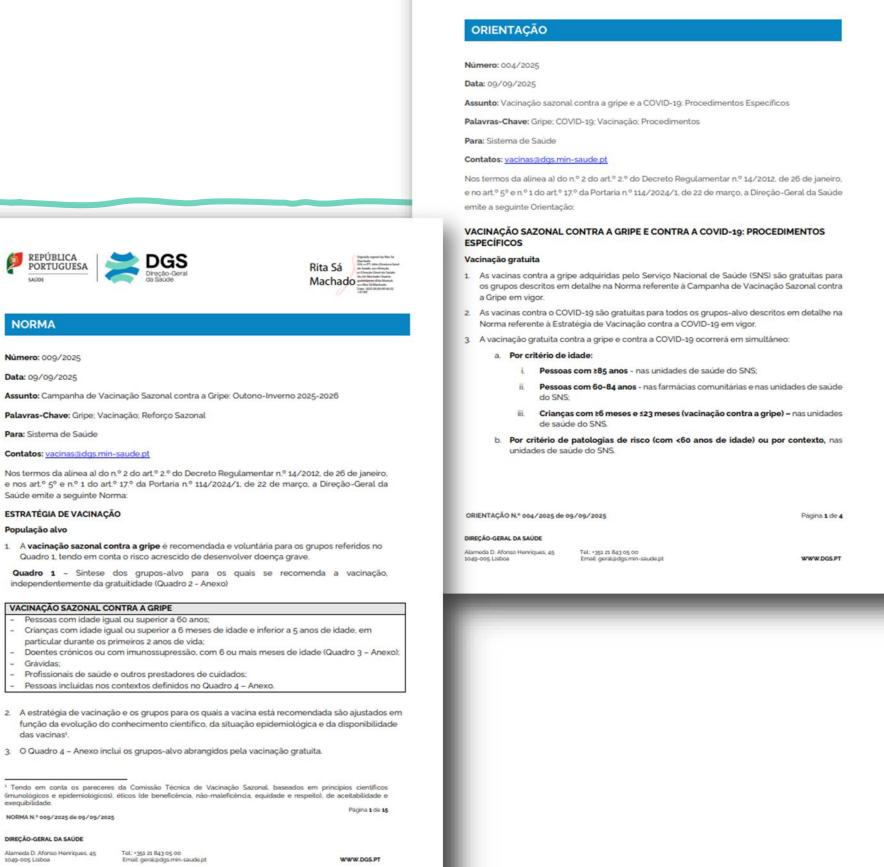




Adult Vaccination | Systems Supporting

- Legal and Technical-Normative documents
- Clinical guidelines and Blue Book of Vaccines
- Integrated care pathways







Adult Vaccination | Systems Supporting

3. Health Communication

- a. National Communication Campaigns | Seasonal Vaccination Campaign
- b. Television programs and Social Networks
- c. Reliance on community partners and public figures
- d. Sending reminder SMS | Call for eligible candidates







Adult Vaccination | Stakeholders and Delivery Channels

Governance and Stakeholders:

Ministry of Health

DGS | National Coordinator

Partners |

| Portuguese National Health Service Executive Board | Shared Services Of The Ministry Of Health | National Authority of Medicines and Health Products | SUCH | Central Administration of the Health System | INSA

> | Regional Vaccination Delegations | Local Health Units | Vaccination points

Vaccination points:

- 1. Primary healthcare Units
 - 2. Hospitals
 - 3. Pharmacies
- 4. Occupational health services
- 5. Other contexts: at-home vaccination: elderly and long-term care institutions; prisons; local points defined for Homeless People





Adult Vaccination | Training and Professional Engagement

1. Healthcare professionals are central to adult vaccination

- 2. Strong clinical recommendations significantly influence acceptance
- 3. Continuous professional education
- 4. Communication and recommendation skills | Motivational interviewing and vaccine confidence
- Interdisciplinary collaboration
- 6. Harmonization of clinical practices





Adult Vaccination | Current Challenges

- 1. Low Coverage Rates | Missed opportunities
- 2. Vaccine Hesitancy and Misinformation
- 3. Complex Guidelines
- 4. Healthcare System Barriers
- 5. Resource and Workforce Limitations
- 6. Adult recall and reminder limitations





Adult Vaccination | Improvements Needed

- 1. Enhance Public Awareness
- 2. Improve Access and Convenience
- 3. Strengthened recall systems
- 4. Enhanced digital decision-support
- 5. Monitor and Evaluate





Adult Vaccination | Evaluation of Strategies

Vaccination strategies in Portugal are continuously evaluated based on evolving scientific evidence, epidemiological trends and real-world performance data.

- 1.Coverage Monitoring
- 2.Program Effectiveness | Evaluate campaign outcomes; Measure impact on disease incidence
- 3. Professional Engagement Metrics
- 4. Patient Feedback and Satisfaction | Accessibility, convenience, and communication
- 5. System and Process Evaluation
- 6.Continuous Improvement | Refine strategies, optimize resources, and improve outreach.





Adult Vaccination | Future Challenges

- 1. Emerging Infectious Diseases
- 2. Vaccine hesitancy and misinformation
- 3. Aging Population and Comorbidities
- 4. Healthcare System Constraints
- 5. Policy and Guideline Updates
- 6. Technology and Digital Integration
- 7. Sustainability and equity





Conclusion

- 1. Adult vaccination as strategic priority
- 2. Evidence-based continuous improvement
- 3. Commitment to collaboration





Thank you!

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