

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

ارائه دهنده: دکتر زینب سرپرست

استاد گرامی: دکتر تفرشی




بیمارستان ضیائیان

گروه زنان



*Systematic Review*

## Genital Warts in Women Vaccinated against HPV in Childhood: A Systematic Review

Renata Malheiro <sup>1</sup>, César Magalhães <sup>2</sup> , Cláudia Camila Dias <sup>3,4</sup> , Acácio Gonçalves Rodrigues <sup>1,3</sup>  
and Carmen Lisboa <sup>1,3,5,\*</sup> 

<sup>1</sup> Division of Microbiology, Department of Pathology, Faculty of Medicine, University of Porto, 4200-319 Porto, Portugal; up201807521@g.uporto.pt (R.M.); agr@med.up.pt (A.G.R.)

<sup>2</sup> Department of Dermatology and Venereology, Gaia and Espinho Local Health Unit, 4434-502 Porto, Portugal; cesar.magalhaes@ulsge.min-saude.pt

<sup>3</sup> Centre for Health Technology and Services Research/ Health Research Network (CINTESIS@RISE), Faculty of Medicine, University of Porto, 4200-319 Porto, Portugal; camila@med.up.pt

<sup>4</sup> Department of Community Medicine, Information and Health Decision Sciences (MEDCIDS) and Knowledge Management Unit, Faculty of Medicine, University of Porto, 4200-319 Porto, Portugal

<sup>5</sup> Department of Dermatology and Venereology, University Hospital Center of São João, 4200-319 Porto, Portugal

\* Correspondence: carlis@med.up.pt

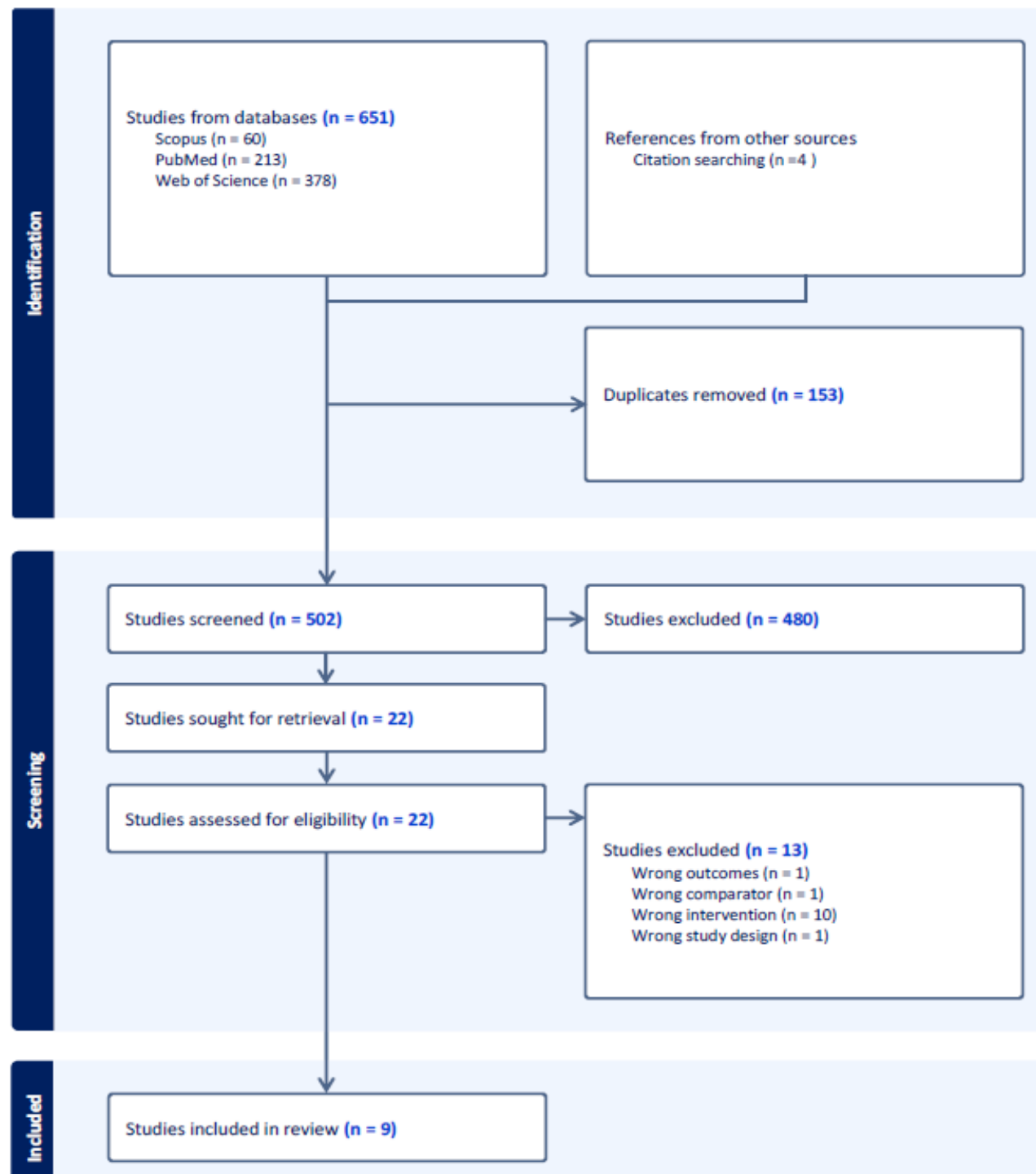
# INTRODUCTION

- **HPV**

- THE MOST PREVALENT SEXUALLY TRANSMITTED DISEASE AMONG YOUNG WOMEN
- 194 / 100.000
- 96% HPV 6 AND 11
- CERVICAL CANCER, PRE-MALIGNANT LESIONS, GWS AND ...
- NATIONAL IMMUNIZATION PROGRAMS IN EUROPE
- 3 TYPES OF HPV VACCINE

# MATERIALS AND METHODS

- STUDIES PUBLISHED BETWEEN 1 JANUARY 2008 AND 1 SEPTEMBER 2023



# RESULTS

Blomberg M.  
et al., 2013 [17]  
Prospective cohort  
Denmark

4vHPV vaccine  
(vaccinated: at  
least 1 dose)  
Vaccinated  
3.1 years;  
unvaccinated  
3.5 years

Vaccinated vs. unvaccinated  
according to age of  
vaccination:  
9–11 years:  
0.0 vs. 2.8  
12–13 years:  
3.0 vs. 5.5  
14–15 years:  
29.4 vs. 34.6  
16–17 years:  
87.5 vs. 264.7  
18–19 years:  
256.0 vs. 385.9

Dominiak-  
Felden G. et al.,  
2015 [20]  
Retrospective  
cohort Belgium

4vHPV vaccine  
Fully  
vaccinated

Unvaccinated: 111.7  
Fully vaccinated  
with first dose:  
<15 years: 8.7  
15–17 years: 11.3  
≥18 years: 53.2  
Partially vaccinated:  
1 dose: 70.5  
2 doses: 33.8

Navarro-Illana E. et al., 2017 [10] Retrospective cohort Spain (Valencia)	4vHPV vaccine 2008–2010; 2vHPV $\geq$ 2011 Vaccinated: at least 1 dose of 4vHPV vaccine. Unvaccinated: no 4vHPV and received 2vHPV vaccine (any dose).	Unvaccinated! 4vHPV: 94.07 4vHPV Vaccinated: 1 dose: 27.56 2 doses: 22.28 3 doses: 18.92
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Perkins R. et al., 2017  
[23]  
Retrospective cohort  
United States of  
America

4vHPV vaccine

0 or 1 dose was  
associated with  
more GWs  
than 3 doses.  
The effectiveness of 2  
doses was similar to 3  
doses.  
The risk of GWs  
increased with age



- THE HIGHEST INCIDENCE RATES OF GWS ---> IN WOMEN  
VACCINATED AT 17–19 YEARS OLD WITH LESS THAN TWO DOSES.

- AMONG WOMEN VACCINATED AT 19 YEARS OR OLDER, THE INCIDENCE OF GWS WAS FOUND TO BE SIMILAR TO THAT OF UNVACCINATED WOMEN, REGARDLESS OF THE NUMBER OF DOSES ADMINISTERED

# DISCUSSION

- AGE
- NUMBER OF DOSES
- OTHER DETERMINANTS

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• **THANK YOU FOR YOUR ATTENTION**