

## Penile cancer scope updated search, from Feb 01 2022 to May 1 2025

### Epidemiology/etiology n=319

Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>

#### Search Strategy:

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
  - 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)
  - 3 or/1-2 (17033)
  - 4 exp Epidemiology/ (5245695)
  - 5 epidemiolog\*.ti,ab,kf. (1299467)
  - 6 (etiolog\* or aetiolog\*).ti,ab,kf. (1090650)
  - 7 (incidence or prevalence or global or trend\*).ti,kf. (1296481)
  - 8 (causes or causation\* or causality or risk or risks or association\*).ti,kf. (3037271)
  - 9 or/4-8 (9998829)
  - 10 3 and 9 (3089)
  - 11 case report/ or case reports/ or case report.ti. (5849770)
  - 12 10 not 11 (2757)
  - 13 (conference abstract or conference review).pt. (5507432)
  - 14 12 not 13 (2194)
  - 15 limit 14 to english (1955)
  - 16 (animals/ or animal/) not (humans/ or human/) (6569380)
  - 17 15 not 16 (1948)
  - 18 limit 17 to yr="2022 -Current" (455)
  - 19 limit 18 to dt=20220201-20250501 use medall [Limit not valid in Embase; records were retained] (114)
  - 20 limit 18 to dc=20220201-20250501 use oemezd (307)
  - 21 (2023\* or 2024\* or 2025\*).ep. (3241734)
  - 22 18 and 21 (68)
  - 23 19 or 20 or 22 (422)
  - 24 Anonymous.au. and "clinicaltrials.gov".so. (499167)
  - 25 23 not 24 (414)
  - 26 (Erratum or corrigendum or "correction to").ti. (558356)
  - 27 25 not 26 (413)
  - 28 remove duplicates from 27 (319)
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### Pathology n=369

Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>

#### Search Strategy:

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
- 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)

- 3 or/1-2 (17033)
  - 4 exp Pathology/ (1884109)
  - 5 (patho\* or histolog\*).ti,ab,kf. (7297000)
  - 6 (biops\* or feature\* or characteristic\*).ti,kf. (1288276)
  - 7 or/4-6 (9351552)
  - 8 3 and 7 (6460)
  - 9 case report/ or case reports/ or (case report or case series).ti. (5912310)
  - 10 8 not 9 (4037)
  - 11 (conference abstract or conference review).pt. (5507432)
  - 12 10 not 11 (3203)
  - 13 limit 12 to english (2746)
  - 14 (animals/ or animal/) not (humans/ or human/) (6569380)
  - 15 13 not 14 (2715)
  - 16 limit 15 to yr="2022 -Current" (567)
  - 17 limit 16 to dt=20220201-20250501 use medall [Limit not valid in Embase; records were retained] (167)
  - 18 limit 16 to dc=20220201-20250501 use oomezd (348)
  - 19 (2023\* or 2024\* or 2025\*).ep. (3241734)
  - 20 16 and 19 (114)
  - 21 17 or 18 or 20 (522)
  - 22 Anonymous.au. and "clinicaltrials.gov".so. (499167)
  - 23 21 not 22 (513)
  - 24 (Erratum or corrigendum or "correction to").ti. (558356)
  - 25 23 not 24 (511)
  - 26 remove duplicates from 25 (369)
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## **Survivorship/supportive care n= 337**

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**Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>  
Search Strategy:**

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
- 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)
- 3 or/1-2 (17033)
- 4 exp survivorship/ (12778)
- 5 exp Palliative Care/ (226217)
- 6 (survivor\* or survival or survived or mortality or death\*).ti,ab,kf. (7768168)
- 7 (palliative or palliation).ti,kf. (121786)
- 8 (living with or supporting care or supportive care).ti,ab,kf. (253977)
- 9 or/4-8 (8125461)
- 10 3 and 9 (3681)
- 11 case report/ or case reports/ or case report.ti. (5849770)
- 12 10 not 11 (3237)
- 13 (conference abstract or conference review).pt. (5507432)

- 14 12 not 13 (2521)
  - 15 limit 14 to english (2280)
  - 16 (animals/ or animal/) not (humans/ or human/) (6569380)
  - 17 15 not 16 (2275)
  - 18 limit 17 to yr="2022 -Current" (601)
  - 19 limit 18 to dt=20220201-20250501 use medall [Limit not valid in Embase; records were retained] (242)
  - 20 limit 18 to dc=20220201-20250501 use oomezd (307)
  - 21 (2023\* or 2024\* or 2025\*).ep. (3241734)
  - 22 18 and 21 (167)
  - 23 19 or 20 or 22 (556)
  - 24 Anonymous.au. and "clinicaltrials.gov".so. (499167)
  - 25 23 not 24 (547)
  - 26 (Erratum or corrigendum or "correction to").ti. (558356)
  - 27 25 not 26 (547)
  - 28 remove duplicates from 27 (337)
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## **Immunotherapy n=99 (new search)**

**Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>  
Search Strategy:**

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
- 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)
- 3 or/1-2 (17033)
- 4 exp immunotherapy/ (739625)
- 5 exp immunomodulation/ (527145)
- 6 (immuonmodulation\* or immunomodulatory or Immune modulation\* or immune therap\* or Immunotherap\* or immuno-therap\* or immunosuppression\* or immunoradiotherap\* or radioimmunotherap\* or Immunosuppressive\*).ti,ab,kf. (1033271)
- 7 ((Human papillomavirus or HPV) adj5 vaccin\*).ti,ab,kf. (37891)
- 8 or/4-7 (1583836)
- 9 3 and 8 (740)
- 10 case report/ or case reports/ or case report.ti. (5849770)
- 11 9 not 10 (602)
- 12 (conference abstract or conference review).pt. (5507432)
- 13 11 not 12 (518)
- 14 limit 13 to english (491)
- 15 (animals/ or animal/) not (humans/ or human/) (6569380)
- 16 14 not 15 (491)
- 17 limit 16 to yr="2022 -Current" (180)
- 18 limit 17 to dt=20220101-20250501 use medall [Limit not valid in Embase; records were retained] (70)
- 19 limit 17 to dc=20220101-20250501 use oomezd (95)

- 20 (2023\* or 2024\* or 2025\*).ep. (3241734)
  - 21 17 and 20 (46)
  - 22 18 or 19 or 21 (169)
  - 23 Anonymous.au. and "clinicaltrials.gov".so. (499167)
  - 24 22 not 23 (161)
  - 25 (Erratum or corrigendum or "correction to").ti. (558356)
  - 26 24 not 25 (161)
  - 27 remove duplicates from 26 (99)
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## **Prognostic and predictive markers of outcome and treatment strategies n=161**

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**Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>**

### **Search Strategy:**

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
- 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)
- 3 or/1-2 (17033)
- 4 (Human papillomavirus or HPV).ti,kf. (109060)
- 5 ((Human papillomavirus or HPV) adj2 (treat\* or therap\* or intervention\* or manage\*)).ab. (5846)
- 6 ((predict\* or prognos\*) and (marker\* or biomarker\*)).ti,kf. (154853)
- 7 biomarker\*.ti. (322343)
- 8 ((predict\* or prognos\*) and (marker\* or biomarker\*) and (Human papillomavirus or HPV) and (p53 or p53)).ab. (578)
- 9 or/4-8 (524981)
- 10 3 and 9 (1433)
- 11 case report/ or case reports/ or case report.ti. (5849770)
- 12 10 not 11 (1271)
- 13 (conference abstract or conference review).pt. (5507432)
- 14 12 not 13 (1128)
- 15 limit 14 to english (1057)
- 16 (animals/ or animal/) not (humans/ or human/) (6569380)
- 17 15 not 16 (1055)
- 18 limit 17 to yr="2022 -Current" (308)
- 19 limit 18 to dt=20220101-20250501 use medall [Limit not valid in Embase; records were retained] (137)
- 20 limit 18 to dc=20220101-20250501 use oemzd (157)
- 21 (2023\* or 2024\* or 2025\*).ep. (3241734)
- 22 18 and 21 (94)
- 23 19 or 20 or 22 (297)
- 24 Anonymous.au. and "clinicaltrials.gov".so. (499167)
- 25 23 not 24 (288)
- 26 (Erratum or corrigendum or "correction to").ti. (558356)

- 27 25 not 26 (288)  
28 remove duplicates from 27 (161)
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## Genomics n=52

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**Database: Embase <1974 to 2025 June 06>, Ovid MEDLINE(R) ALL <1946 to June 06, 2025>**  
**Search Strategy:**

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**Database: Embase <1974 to 2025 June 10>, Ovid MEDLINE(R) ALL <1946 to June 10, 2025>**  
**Search Strategy:**

- 1 exp \*penis cancer/ or exp \*Penile Neoplasms/ (14065)
  - 2 ((penile or penis) and (cancer\* or carcin\* or malig\* or tumor\* or tumour\* or neoplasia or neoplasm\*)).ti,kf. (11810)
  - 3 or/1-2 (17033)
  - 4 exp Genomics/ (355734)
  - 5 genomic\*.ti,kf. (261585)
  - 6 (p53 or TP53 or p-53 or TP-53).ti,ab,kf. (326885)
  - 7 or/4-6 (839962)
  - 8 3 and 7 (434)
  - 9 case report/ or case reports/ or case report.ti. (5849770)
  - 10 8 not 9 (390)
  - 11 (conference abstract or conference review).pt. (5507432)
  - 12 10 not 11 (307)
  - 13 limit 12 to english (301)
  - 14 (animals/ or animal/) not (humans/ or human/) (6569380)
  - 15 13 not 14 (298)
  - 16 limit 15 to yr="2022 -Current" (91)
  - 17 limit 16 to dt=20220101-20250501 use medall [Limit not valid in Embase; records were retained] (33)
  - 18 limit 16 to dc=20220101-20250501 use oemezd (45)
  - 19 (2023\* or 2024\* or 2025\*).ep. (3241734)
  - 20 16 and 19 (29)
  - 21 17 or 18 or 20 (83)
  - 22 Anonymous.au. and "clinicaltrials.gov".so. (499167)
  - 23 21 not 22 (82)
  - 24 (Erratum or corrigendum or "correction to").ti. (558356)
  - 25 23 not 24 (82)
  - 26 remove duplicates from 25 (52)
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