

ASCO-EAU COLLABORATIVE GUIDELINES ON PENILE CANCER

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Introduction

Penile cancer has a significant impact on quality of life (QoL) in many ways and there remain many unmet needs to address. The Guidelines Panel have chosen to stress the importance of QoL in penile cancer in the introduction to these Guidelines to underline that the significant emotional, social and physical needs are to be discussed and addressed early in a patient's pathway, through a holistic and multidisciplinary approach.

Epidemiology, aetiology and pathophysiology

The incidence of penile cancer increases with age, with a peak in the sixth decade but it does occur in younger patients. Penile cancer is most common in regions with a high prevalence of human papillomavirus (HPV), and approximately one third to half of cancer cases are attributed to HPV-related carcinogenesis. A slight increase in incidence is seen in Western/developed countries, most likely caused by higher infection rates of HPV, which is a trend also observed in other cancers.

Human papillomavirus infection is the main risk factor for penile cancer. Several other risk factors for penile cancer have been identified, including phimosis, chronic penile inflammation, lichen sclerosus, smoking, ultraviolet A phototherapy and low socio-economic status.

Staging and classifications systems

The 9th edition of the UICC/AJCC Tumour, Node, Metastasis (TNM) classification system, published in 2025, does not differ from the 8th edition and should be used for the staging and classification of penile cancer (Table 1).

Table 1: UICC/AJCC 9th edition TNM clinical and pathological classification of penile cancer

Clinical classification	
T - Primary tumour	
TX	Primary tumour cannot be assessed
T0	No evidence of primary tumour
Tis	Carcinoma <i>in situ</i> (Penile Intraepithelial Neoplasia – PeIN)
Ta	Non-invasive localised squamous cell carcinoma*
T1	Tumour invades subepithelial connective tissue
T1a	Tumour invades subepithelial connective tissue without lymphovascular invasion or perineural invasion and is not poorly differentiated
T1b	Tumour invades subepithelial connective tissue with lymphovascular invasion or perineural invasion or is poorly differentiated

T2	Tumour invades corpus spongiosum with or without invasion of the urethra
T3	Tumour invades corpus cavernosum with or without invasion of the urethra
T4	Tumour invades other adjacent structures
N - Regional lymph nodes	
cNX	Regional lymph nodes cannot be assessed
cN0	No palpable or visibly enlarged inguinal lymph nodes
cN1	Palpable mobile unilateral inguinal lymph node
cN2	Palpable mobile multiple or bilateral inguinal lymph nodes
cN3	Fixed inguinal nodal mass or pelvic lymphadenopathy, unilateral or bilateral
M - Distant metastasis	
cM0	No distant metastasis
cM1	Distant metastasis
Pathological classification	
The pT categories correspond to the clinical T categories	
The pN categories are based upon biopsy or surgical excision	
pN - Regional lymph nodes	
pNX	Regional lymph nodes cannot be assessed
pN0	No regional lymph node metastasis
pN1	Metastasis in one or two inguinal lymph nodes (unilateral)
pN2	Metastasis in more than two unilateral inguinal nodes or bilateral inguinal lymph nodes
pN3	Metastasis in pelvic lymph node(s), unilateral or bilateral or extranodal extension of regional lymph node metastasis

pM - Distant metastasis	
pM1	Distant metastasis microscopically confirmed
G - Histopathological grading	
GX	Grade of differentiation cannot be assessed
G1	Well differentiated
G2	Moderately differentiated
G3	Poorly differentiated
G4	Undifferentiated

**Including verrucous carcinoma.*

Pathology

Squamous cell carcinoma (SCC) accounts for over 95% of penile malignancies. Different histological subtypes of penile SCC with distinct growth patterns, clinical aggressiveness and HPV associations have been identified. Numerous mixed forms exist, with the warty-basaloid form being the most common (50-60%). Penile intraepithelial neoplasia (PeIN) is considered the precursor lesion of penile SCC.

Other malignant lesions of the penis include melanocytic and sarcomatoid lesions, mesenchymal tumours, lymphomas, and metastases, all of which are extremely rare in comparison to SCC.

Pathology report

For standardisation and data collection purposes, the dataset template from the International Collaboration on Cancer Reporting should be used when possible. The pathology report must include the anatomical site of the primary tumour, the histological type of SCC, grade, perineural invasion, depth of invasion, vascular invasion (venous/lymphatic), irregular growth pattern of and front of invasion, urethral invasion, invasion of corpus spongiosum/cavernosa, surgical margins and p16 immunohistochemistry (IHC) results.

Recommendations for the pathological assessment of tumour specimens	Strength rating
The pathological evaluation of penile carcinoma specimens must include the pTNM stage and an assessment of tumour grade.	Strong
The pathological evaluation of penile carcinoma specimens must include an assessment of p16 by immunohistochemistry.	Strong
The pathological evaluation of penile carcinoma specimens should follow International Collaboration on Cancer Reporting dataset synoptic report.	Strong

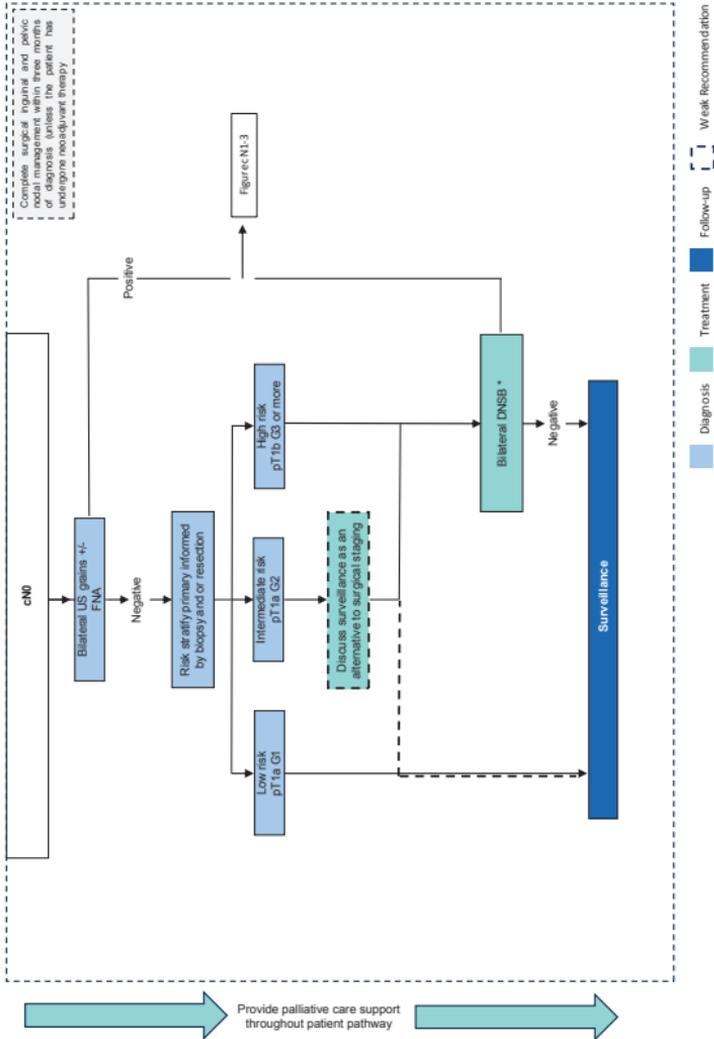
TNM = Tumour, Node, Metastasis.

Diagnostic evaluation

Physical examination

Physical examination should include inspection and palpation of the entire penis (to identify potential skip lesions) and both groins. The dimensions, anatomic location, and extent of local invasion should be noted. Physical examination is a reliable method for estimating penile tumour size and clinical T stage. Careful palpation of both groins for enlarged/pathologic inguinal lymph nodes (LNs) must be part of the initial physical examination of patients suspected of having penile cancer.

Figure 1: Clinically cN0 management



* If DSNB is not available, perform ILND (open or video-endoscopic).

DSNB = dynamic sentinel node biopsy; FNA = fine-needle aspiration; ILND = inguinal lymphadenectomy; US = ultrasound.

Penile biopsy

A biopsy of the primary tumour should be obtained when there is doubt about the exact nature of the lesion. However, even in clinically obvious cases, histological confirmation can facilitate treatment decisions. Histological confirmation is necessary to guide management when treatment is planned with topical agents, radiotherapy or laser surgery.

Imaging of the primary tumour

- Magnetic resonance imaging (MRI) can be helpful in case of uncertainty, if the tumour invades the cavernosal bodies (cT3), and if organ-sparing treatment options are considered.
- Ultrasound (US) can be considered if MRI is not available.

Lymph node staging

The presence and extent of LN metastasis is the most important prognostic factor for survival of penile cancer. There are data showing that survival is better when LN metastases are removed in a micro-metastatic state (before they become palpable [cN0]).

As current non-invasive staging options such as computed tomography (CT) or positron emission tomography (PET)/CT are not reliable enough to detect micro-metastatic disease (and should not be routinely performed), surgical staging is recommended in cN0 patients at high risk of having occult LN involvement (\geq pT1b). pT1aG2 tumours are considered intermediate risk. In patients with low-risk tumours (pT1aG1), the risk of metastases is too low to justify surgical staging. Inguinal lymph node dissection (ILND) is the most reliable surgical staging procedure, but is associated with the highest morbidity. Dynamic sentinel node biopsy (DSNB) has shown high diagnostic accuracy and low morbidity, especially in high-volume centres. Inguinal US plus fine-needle aspiration

cytology (FNAC) of sonographically abnormal nodes can reduce the need of DSNB when tumour positive, allowing for earlier therapeutic treatment of node-positive disease.

In cN+ patients, obtaining pathological confirmation (by biopsy) and additional imaging for staging pelvic LNs and distant sites is recommended. Imaging with ¹⁸F-Fluorodeoxyglucose-PET/CT showed higher sensitivity/specificity than CT alone.

Recommendations for diagnosis and staging	Strength rating
Primary tumour	
Perform a detailed physical examination of the penis and external genitalia, recording morphology, size and location of the penile lesion, including extent and invasion of penile (adjacent) structures.	Strong
Perform MRI of the penis/primary tumour (artificial erection not mandatory) when there is uncertainty regarding corporal invasion and/or the feasibility of (organ-sparing) surgery. If MRI is not available, offer US as alternative option.	Weak
Obtain a pre-treatment biopsy of the primary lesion when malignancy is not clinically obvious, or when non-surgical treatment of the primary lesion is planned (e.g., topical agents, laser, radiotherapy).	Strong
Inguinal LNs	
Perform a physical examination of both groins. Record the number, laterality and characteristics of any palpable/suspicious inguinal LNs.	Strong

Clinically node-negative (cN0)	
If there are no palpable/suspicious nodes (cN0) at physical examination, offer surgical LN staging to all patients at high risk of having micro-metastatic disease (T1b or higher).	Strong
In case of T1aG2 disease, also discuss surveillance as an alternative to surgical staging in patients willing to comply with strict follow-up.	Weak
When surgical staging is indicated, offer DSNB. If DSNB is not available and referral is not feasible, or if preferred by the patient after being well informed, offer (open or video-endoscopic).	Strong
If DSNB is planned, perform inguinal US first, with FNAC of sonographically abnormal LNs.	Strong
Clinically node-positive (cN+)	
If there is a palpable/suspicious node at physical examination (cN+), obtain (image-guided) biopsy to confirm nodal metastasis before initiating treatment.	Strong
In cN+ patients, stage the pelvis and exclude distant metastases with FDG-PET/CT or CT of the chest and abdomen before initiating treatment.	Strong

CT = computed tomography; DSNB = dynamic sentinel node biopsy; FNAC = fine-needle aspiration cytology; FDG = Fluorodeoxyglucose; ILND = inguinal lymph node dissection; LN = lymph nodes; MRI = magnetic resonance imaging; PET = positron emission tomography; US = ultrasound.

Disease management

Treatment of the primary tumour

The main aims of treatment of the primary tumour are complete tumour removal, which has to be balanced against optimal organ preservation without compromising oncological control.

Superficial non-invasive disease (PeIN, Ta)

Circumcision should be the primary surgical option and close monitoring before starting additional treatment has been advocated.

Topical therapies

Topical therapy with imiquimod or 5-fluorouracil (5-FU) are effective non-invasive first-line treatment options.

Laser ablation

Laser ablation is an alternative treatment option.

Surgery

Extensive PeIN, residual PeIN in resection margins, or recurrent disease after ablative or topical therapy can be treated by surgical excision/glans resurfacing.

Invasive disease confined to the glans (cT1/T2)

Treatment choice depends on tumour size, histology, stage, grade, localisation and patient preference. Minimal resection margins (> 1 mm) were shown to be oncologically safe. Therefore, organ-sparing treatment (circumcision, wide local excision, glans resurfacing, glanslectomy) should be offered when feasible. Although associated with higher recurrence rates compared to amputative surgery, these were shown to have little impact on long-term survival. The higher recurrence-free survival rates observed after amputative

surgery need to be weighed against the negative impact on sexual function and QoL.

Glansectomy

Patients with tumours confined to the glans and prepuce, not eligible for wide local excision or glans resurfacing, are good candidates for glansectomy. Patients with poor vascular function, diabetes, immunosuppression, or previous radiation to the groin area are less suitable for graft application due to higher failure rates.

Partial penectomy

Partial amputative surgery is generally reserved for more advanced disease (\geq T3). Data suggest that recurrence-free rates after amputative surgery were superior to penile-sparing surgery, indicating that a wider resection is protective against local recurrence and should always be discussed as an alternative option.

Radiotherapy

Radiotherapy, either external beam radiotherapy (minimum dose 60 Gy) or brachytherapy (the latter for lesions $<$ 4 cm in diameter), is an alternative organ-preserving approach in selected patients with T1–2 lesions. Reported results are best with brachytherapy.

Local recurrence after organ-sparing surgery

A second organ-sparing procedure can be performed in the absence of corpus cavernosum invasion. In large or high-stage recurrence, partial or total amputation is required, unless unresectable or concurrent with nodal or distant metastatic recurrence.

Locally advanced disease (T3–T4)

For patients staged \geq cT3, (partial or total) amputative surgery is standard. Radical amputation and urinary diversion by perineal urethrostomy is reserved for those patients in whom a resection with tumour-free margins would result in the inability to void standing upright or without wetting the scrotum.

Recommendations for penile intra-epithelial neoplasia (PeIN), Ta–cT1/T2 and T3–T4 disease	Strength rating
Offer a balanced and individualised discussion on benefits and harms of possible treatment options with the goal of shared decision-making.	Strong
Inform patients that organ-sparing procedures and glanulo-preputial epithelium-preserving techniques are associated with a higher risk of local recurrence compared to amputative surgery.	Strong
Topical therapy	
Offer topical therapy with 5-fluorouracil or imiquimod to patients with biopsy-confirmed PeIN.	Weak
Clinically assess treatment effects after a treatment-free interval and in cases of doubt, perform a biopsy. If topical treatment fails, it should not be repeated.	Weak
Laser ablation	
Offer laser ablation using CO ₂ or Nd:YAG laser to patients with biopsy-confirmed PeIN, Ta or T1 lesions.	Weak

Organ-sparing treatment: surgery (circumcision, wide local excision, glansectomy and glans resurfacing)

Offer organ-sparing surgery and reconstructive techniques to patients with lesions confined to the glans and prepuce (PeIN, Ta, T1–T2) and who are willing to comply with strict follow-up.	Strong
Perform intra-operative frozen section analysis of resection margins in cases of doubt on the completeness of resection.	Weak
Offer salvage organ-sparing surgery to patients with small recurrences not involving the corpora cavernosa.	Weak
Organ-sparing treatment: radiotherapy (external beam radiation therapy and brachytherapy)	
Offer radiotherapy to selected patients with biopsy-confirmed T1 or T2 lesions.	Strong
Amputative surgery (partial- and total penectomy)	
Offer partial penectomy, with or without reconstruction, to patients with invasion of the corpora cavernosa (T3) and those not willing to undergo organ-sparing surgery or not willing to comply with strict follow-up.	Strong
Offer total penectomy with perineal urethrostomy to patients with large invasive tumours not amenable to partial amputation.	Strong
Offer amputative surgery to patients with large local recurrences or corpora cavernosa involvement.	Weak

Multimodal therapy	
Offer induction chemotherapy followed by surgery to responders or chemoradiotherapy to patients with non-resectable advanced primary lesions or to patients with locally-advanced disease who refuse surgical management.	Weak

Treatment of cN1–2 disease

The management of regional LNs is decisive for patient survival. The presence and extent of nodal involvement is singularly the most important prognostic factor in patients with penile cancer.

- ¹ Fascial sparing ILND or open radical ILND; sparing the saphenous if possible.
- ² Ipsilateral open radical ILND; sparing the saphenous vein, if possible.
- ³ Offer minimally invasive ILND to patients with cN1-2 disease only as part of a clinical trial.
- ⁴ Do not offer video endoscopic ILND.
- ⁵ Cisplatin and taxane-based chemotherapy.
- ⁶ ILND is an option where DSNB is not feasible or preferred by the patient.
- ⁷ The term bulky is generally used to indicate a high suspicion of extranodal extension.

CAP = chest, abdomen and chest; cRXT = chemoradiotherapy; CT = computed tomography; CXT = chemotherapy; DSNB = dynamic sentinel node biopsy; FNA = fine-needle aspiration; ILND = inguinal lymphadenectomy; MDT = multidisciplinary team meeting; NAC = neoadjuvant chemotherapy; PET = positron emission tomography; (p)PLND = (prophylactic) pelvic lymph node dissection; RXT = radiotherapy; US = ultrasound.

Radical inguinal lymph node dissection

Open radical ILND remains the standard of care for patients with cN1–2 disease (including patients after positive DSNB). Radical ILND carries significant morbidity due to impaired lymph drainage from the legs and scrotum. Minimally invasive (video-endoscopic) approaches have emerged, although largely confined to cN0 patients, with short follow-up data precluding incorporation in the current Guidelines.

Recommendations for cN1-2 disease	Strength rating
In patients with cN1 disease, offer either ipsilateral: <ul style="list-style-type: none"> • fascial-sparing inguinal lymphadenectomy (ILND) • open radical ILND, sparing the saphenous vein if possible. 	Strong
In patients with cN2 disease offer ipsilateral open radical ILND, sparing the saphenous vein if possible.	Strong
Offer minimally-invasive ILND to patients with cN1–2 disease only as part of a clinical trial.	Strong
Offer neoadjuvant chemotherapy (NAC) as an alternative approach to upfront surgery in selected patients with bulky mobile inguinal nodes or bilateral disease (cN2) who are candidates for cisplatin and taxane-based chemotherapy.	Weak
Complete surgical inguinal and pelvic nodal management within three months of diagnosis (unless the patient has undergone prior NAC).	Weak

Prophylactic pelvic lymph node dissection

In most cases, prophylactic pelvic lymph node dissection (PLND) represents a staging procedure that can identify candidates for early adjuvant therapy, although in select patients it may also provide a therapeutic benefit. Among various predictors, the number of positive inguinal LN and presence of extranodal extension is associated with positive ipsilateral pelvic LN metastasis.

Recommendations for prophylactic pelvic lymph node dissection (PLND)	Strength rating
Offer open or minimally-invasive prophylactic ipsilateral PLND to patients if: <ul style="list-style-type: none"> • three or more inguinal nodes are involved on one side on pathological examination; • extranodal extension is reported on pathological examination. 	Weak
Complete surgical inguinal and pelvic nodal management within three months of diagnosis (unless the patient has undergone neoadjuvant chemotherapy).	Weak

Clinical N3 disease (cN3)

Patients with a fixed inguinal mass (i.e., to the skin or underlying structures) or pelvic lymphadenopathy are defined as cN3.

- Surgery alone will rarely cure patients with cN3 disease;
- Even when technically feasible, up-front surgery is associated with significant complications, which may delay or prevent delivery of adjuvant therapy;
- About half of cN2–3 patients respond to combination chemotherapy. Responders that subsequently undergo consolidative inguinal/pelvic lymphadenectomy have an overall survival chance of about 50% at five years;
- Inguinal lymphadenectomy in cN3 patients often requires resection of overlying skin to effectively remove a fixed bulky nodal mass;
- The available literature includes virtually no cN3 patients to assess the efficacy or safety of minimally-invasive ILND.

Recommendations for cN3 disease	Strength rating
Offer neoadjuvant chemotherapy (NAC) using a cisplatin- and taxane-based combination for patients with pelvic lymph node involvement or those with extensive inguinal involvement (cN3), in chemotherapy candidates in preference to upfront surgery.	Weak
Offer surgery to patients responding to NAC in whom resection is feasible.	Strong
Offer surgery to patients who have not progressed during NAC, but resection is feasible. See also (chemo) radiation.	Weak
Do not offer video-endoscopic inguinal lymphadenectomy.	Strong

Multimodal chemotherapy/radiotherapy in management of (regional) lymph nodes

Systemic therapy

Neoadjuvant chemotherapy

Given the poor outcome of upfront surgery, neoadjuvant chemotherapy is a potentially-suitable approach for patients with pelvic- and/or extensive/fixed inguinal LN involvement (cN3), or selected patients with (bulky) bilateral involvement (cN2). In non-responding patients, the potential benefits of surgery should be re-evaluated as prognosis is poor in these patients.

Adjuvant chemotherapy

There are no strong data supporting the use of adjuvant chemotherapy to improve overall survival following surgical resection of the primary tumour and involved LNs. However, in a subset of healthy patients at very high risk of recurrence, after a balanced discussion of risks and benefits of adjuvant chemotherapy, it can be offered.

Recommendation for neoadjuvant and adjuvant chemotherapy	Strength rating
Offer neoadjuvant chemotherapy using a cisplatin- and taxane-based combination for patients with pelvic lymph node (LN) involvement or those with extensive inguinal involvement (cN3), in chemotherapy candidates in preference to upfront surgery.	Weak
Offer chemotherapy as an alternative approach to upfront surgery in selected patients with bulky mobile inguinal nodes or bilateral disease (cN2) who are candidates for cisplatin and taxane-based chemotherapy.	Weak
Have a balanced discussion of risks and benefits of adjuvant chemotherapy with high-risk patients with surgically resected disease, in particular with those with pathological pelvic LN involvement (pN3). See also section on post-operative radiotherapy.	Weak

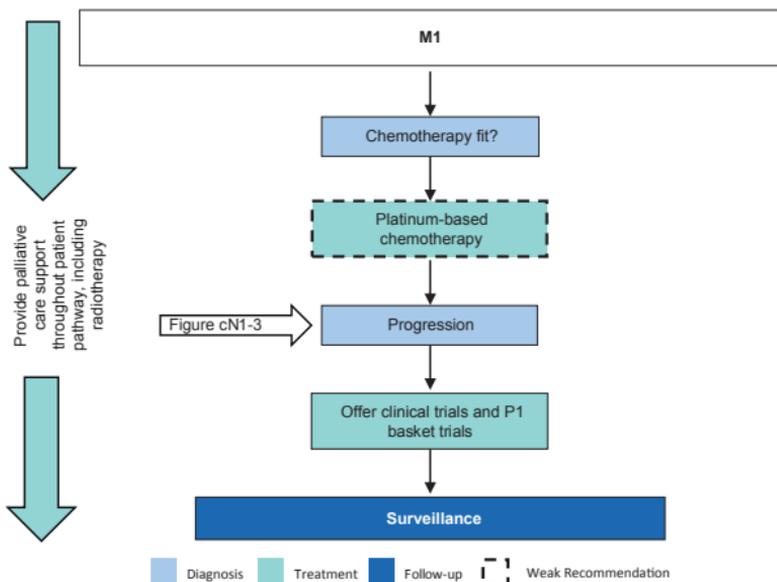
Radiotherapy

Primary (definitive) and adjuvant radiotherapy for node-positive penile cancer remains controversial since there is no level 1 evidence. Radiotherapy is being used in some institutions in the management of regional LNs for penile SCC, based on evidence and experience with other SCC sites (such as head/neck and vulvar carcinomas). As in other SCC sites, HPV status may also predict increased responsiveness to combined chemo-radiotherapy.

Recommendations for radiotherapy	Strength rating
Offer adjuvant radiotherapy (with or without chemosensitisation) to patients with pN2/ N3, including those with prior neoadjuvant chemotherapy.	Weak
Offer definitive radiotherapy (with or without chemosensitization) to patients unwilling or unable to undergo surgery.	Weak
Offer radiotherapy (with or without chemo-sensitisation) to cN3 patients who are not candidates for multi-agent chemotherapy.	Weak

Palliative therapies for advanced disease

Figure 3: Systemic and palliative therapies for advanced disease



P1 = Phase I studies.

Systemic therapy

- Low-level data support the use of platinum-based chemotherapy as the preferred approach in first-line palliative systemic therapy. Choices include triplet regimens (docetaxel, cisplatin + 5-FU [TPF]; paclitaxel, ifosfamide + cisplatin [TIP]) and doublets (Cisplatin/5-FU [PF]; paclitaxel/carboplatin), where doublets appear to have less toxicity.
- Effective second-line palliative chemotherapy regimens are lacking. Second-line chemotherapy in multiple studies was associated with a median overall survival of ≤ 6 months.
- Initial phase II or basket studies assessed anti-epidermal growth factor receptor therapy or checkpoint inhibition in advanced disease with mixed results, so not enough data are available for incorporation in the current Guidelines.
- Therefore, inclusion of patients with advanced penile SCC into trials is highly recommended.
- If trials are not available, molecular characterisation may be performed to assess candidacy for tumour-agnostic therapies.

Role of radiotherapy in palliation

Radiotherapy is frequently necessary for palliation of penile cancer, and should be customised for unique presentations as necessary: e.g., ulcerative fixed LNs or dermal lymphatic spread. While standard palliative regimens should be readily employed, providers should be aware that re-treatment may be necessary.

Recommendations for systemic and palliative therapies for advanced penile cancer	Strength rating
<i>Systemic therapies</i>	
Offer patients with distant metastatic disease, platinum-based chemotherapy or combination clinical trials as the preferred approach to first-line palliative systemic therapy.	Weak
Do not offer bleomycin because of the pulmonary toxicity risk.	Strong
Offer patients with progressive disease under platinum chemotherapy the opportunity to enrol in clinical trials, including experimental therapies within phase I or basket trials.	Strong
<i>Radiotherapy</i>	
Offer radiotherapy for symptom control (palliation) in advanced disease.	Strong

Follow-up

From an oncological perspective, surveillance is important, as early detection of recurrence may increase the likelihood of curative treatment. Local or regional nodal recurrences usually occur within two years of primary treatment. A suggested schedule is provided in Table 2.

Table 2: Follow-up regime for penile cancer

Interval of surveillance		Examinations and investigations	Minimum duration of follow-up
Years 1–2	Years 3–5		
Recommendations for follow-up of the primary tumour			
*Penile-preserving treatment	3-monthly	6-monthly Regular physician or self-examination. Repeat biopsy after topical or laser treatment for PeIN (optional).	5 years
*Amputation	3-monthly	Annually Regular physician or self-examination.	5 years
Recommendations for follow-up of the inguinal nodes			
*Surveillance	3-monthly the first year, 6-monthly the second year	6-monthly Regular physician or self-examination.	5 years
*pN0	3-monthly	No LN follow-up required Regular physician or self-examination. Consider 3-monthly US ± FNAC during first year, 6-monthly the second year, and end follow-up thereafter in patients capable of self-examination of the penis.	5 years
pN+	3-monthly	6-monthly Regular physician or self-examination. CT chest/abdomen or ¹⁸ F-DG-PET/CT if available.	5 years

* Self-examination can be considered in capable patients for penile-preserving, amputation, surveillance and pN0 after two years, with easy access back to clinic if needed.

CT = computed tomography; ¹⁸FDG = ¹⁸F-Fluorodeoxyglucose; FNAC = fine-needle aspiration cytology; LN = lymph node; PeIN = penile intra-epithelial neoplasia; PET = positron emission tomography; US = ultrasound.

Quality of life

Penile cancer has a significant impact on QoL in many ways and there remain many unmet needs to address. Surveillance is not just about assessing for recurrent disease, and males may require more frequent appointments with different members of the multidisciplinary team than suggested above to deliver patient support services and address QoL challenges. Access to psychological support, counselling and psychosexual therapy are critical components of a holistic and multidisciplinary patient support service.

Ideally, following nodal surgery, patients would be referred to specialist lymphoedema services for assessment and management before any significant lymphoedema occurs.

Centralisation of penile cancer services

Centralisation of penile cancer services have a number of advantages in addition to delivering these important supportive services to patients. These include provision of an environment where multidisciplinary discussion of cases can occur along with specialist pathological review, delivery of high-volume penile-preserving- and nodal surgery, more accurate DSNB and minimally invasive surgery. In addition, patients should be able to access a larger team of specialists, including psychological and lymphoedema survivorship services. Centralisation of penile cancer services also creates opportunities for research and running clinical trials with a larger number of patients in a rare disease.

Recommendations for follow-up and quality of life	Strength rating
<p>Deliver penile cancer care as part of an extended multidisciplinary team comprising of urologists specialising in penile cancer, specialist nurses, pathologists, uro-radiologists, nuclear medicine specialists, medical and radiation oncologists, lymphoedema therapists, psychologists, counsellors, palliative care teams for early symptom control, reconstructive surgeons, vascular surgeons and sex therapists.</p>	Strong
<p>Refer all patients with suspected or confirmed penile cancer to a high-volume expert centre for multidisciplinary evaluation and management. If direct referral is not feasible, ensure pre-treatment discussion with such a centre, including use of European Reference Networks where available.</p>	Strong
<p>Follow-up with males after penile cancer treatment, initially three-monthly for two years then less frequently to assess for recurrent disease and to offer patient support services through the extended multidisciplinary team. At discharge, recommend self-examination with easy access back to the clinic as local recurrence can occur late.</p>	Strong
<p>Discuss the psychological impact of penile cancer and its treatments with the patient and offer psychological support and counselling services.</p>	Strong

Discuss the negative impact of treatments for the primary tumour on penile appearance, sensation, urinary and sexual function, so that the patient is better prepared for the challenges they may face.	Strong
Discuss the potential impact of lymphoedema as a consequence of inguinal and pelvic lymph node treatment with the patient; assess patients for it at follow-up; and refer to lymphoedema therapists early.	Strong

This short booklet text is based on the more comprehensive EAU Guidelines accessible on the website:
<http://www.uroweb.org/guidelines/>.