Table \$8.4 Major pathological features and prognosis of small cell neuroendocrine carcinoma (SCNEC) at various anatomical sites^a (continued on next page)

Site	Macroscopic appearance	Histopathology	IHC	Grading	Cytology	Diagnostic molecular pathology	Diagnostic criteria	Staging	Prognosis
Head and neck		•							-
Middle ear / external auditory canal {32851892}	Polypoid mass	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, INSM1	High-grade by definition Mitoses not defined	Not clinically relevant for diagnosis on primary site; for SCNEC classic	No established role	Essential: NE morphology, with high-grade cytology, tumour necrosis, and high mitotic count; expression of cytokeratin(s) and NE markers (> 1) in strong and diffuse pattern Desirable: SSTR2–5; high Ki-67 labelling index	None	Poor prognosis; no large studies available
Sinonasal tract {19157501; 19685359; 21794118; 23740425; 24980293; 25457524; 25727332; 26880574; 27392929; 27529044; 27859290; 27938993; 28932042; 29438167; 29734873; 30248495; 30475447; 31161776; 31186531; 31763323; 32358042; 33090899; 33371727; 33433884}	Large and destructive mass with haemorrhage and necrosis	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, p16 Variable: chromogranin A, synaptophysin, INSM1	High-grade by definition Mitoses not defined	Not clinically relevant for diagnosis on primary site; SCNEC classic	No established role	Essential: NE morphology, with high-grade cytology, tumour necrosis, and high mitotic count; expression of cytokeratin(s) and NE markers (> 1) in strong and diffuse pattern Desirable: SSTR2–5; Ki-67 labelling index	Non-NE carcinoma	5-year survival rates as low as 13%; median survival time: 15 months
Oropharynx, oral cavity, and salivary glands {18038886; 22430343; 22301491; 23838856; 2421566; 24966986; 27392929; 27496009; 27818885; 29093415; 30475447; 31161776; 31463946; 31523135; 31920384; 33694290}	Ulcerated mass, rapid clinical presentation Salivary glands: large, infiltrative nodules with necrosis and haemorrhage	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, p16 Variable chromogranin A, synaptophysin, INSM1 Salivary glands: CK20+, MCPyV-	High-grade by definition Mitoses not defined	Not clinically relevant for diagnosis on primary site Salivary glands and metastasis deposit: SCNEC classic	No established role No UV radiation signature ISH for high-risk HPV is helpful	Essential: NE morphology, with high-grade cytology, tumour necrosis, and high mitotic count; expression of cytokeratin(s) and NE markers (> 1) in strong and diffuse pattern Desirable: SSTR2–5; Ki-67 labelling index	Non-NE carcinoma	Most have a poor prognosis, but few cases reported Oral cavity: median OS time of 21 months; 5-year OS rate of 27% Salivary glands: median OS time of 25 months, 5-year OS rate of 33%
Hypopharynx, larynx, trachea, and parapharyngeal space {22430343; 22433139; 23397781; 23397787; 24596175; 24980293; 25351497; 25457524; 25606844; 26173932; 26611246; 27392929; 27859290; 28559027; 29557536; 29909787; 31161776; 31437725}	Fleshy, ulcerated submucosal mass	SCNEC classic	Positive: p16 in HPV-associated cases	High-grade by definition Mitoses not defined	Not clinically relevant for diagnosis on primary site; for SCNEC classic	No established role	Essential: NE morphology, with high-grade cytology, tumour necrosis, and high mitotic count; expression of cytokeratin(s) and NE markers (> 1) in strong and diffuse pattern Desirable: SSTR2–5; Ki-67 labelling index	Non-NE carcinoma	70% advanced disease; 5-year OS rate of 5–20%
Thorax									
Lung {27873319; 33209646}	Typically perihilar mass but peripheral lesions may occur	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, TTF1, INSM1 Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate > 10 mitoses/ 2 mm² (average: 60 mitoses/2 mm²); Ki-67: > 50% (average: > 80%)	SCNEC classic (FNAB, bronchial aspirates and/or brushing)	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: one/two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	2-year OS rate: 10% in metastatic disease; 5-year OS rate: 25% in non- metastatic disease; median OS time: 12.7 months
Thymus {31042566; 20485130; 29201448}	Grossly invasive with frequent necrosis and haemorrhage	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, TTF1 Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate > 10 mitoses/ 2 mm² (average: 110 mitoses/2 mm²)	SCNEC classic (FNAB)	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Epithelial tumours of the thymus	Median survival time: 13.75 months (range: 13–26 months)
Digestive system									
Oesophagus {33847642; 33686305; 33980813}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, TTF1 in 70% Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	SCNEC classic	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median OS time range: 8–15 months; older age, upper third location, advanced stage, and no surgery or radiotherapy or chemotherapy are adverse prognostic factors
Stomach {33686305; 15226341; 28239029; 33359239; 25465415}	Large fungating masses deeply infiltrating the wall	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, TTF1 in 70% Variable: chromogranin A, synaptophysin, CDX2	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	SCNEC classic	Rare MMR-deficient status but potential clinical utility	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Poor prognosis; survival time: a few months (no large studies available)

IHC, immunohistochemistry; ISH, in situ hybridization; LCNEC, large cell neuroendocrine carcinoma; MCPyV, Merkel cell polyomavirus; MMR, mismatch repair; NE, neuroendocrine; OS, overall survival; TTF1, thyroid transcription factor 1; UV, ultraviolet.

*See also the relevant site-specific volumes of the WHO Classification of Tumours series, 5th ed.; vol. 9). https://publications.iarc.who.int/629.]], Thoracic tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Thoracic tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Pemale genital tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Breast tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Uninary and male genital tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 2). https://publications.iarc.who.int/591.]], Uninary and male genital tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 2). https://publications.iarc.who.int/591.]], and Skin tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 12). https://tumourslassification.iarc.who.int/610.]], and Skin tumours [[WHO Classification.iarc.who.int/640.]]. Lyon (France): International Agency for Research on Cancer; 2023. (WHO classification of Tumours Series, 5th ed.; vol. 12). https://tumourslassification.iarc.who.int/640.]]. https://tumourslassification.iarc.who.int/640.]

References: The in-text citations provided within curly brackets are PubMed reference numbers (PMIDs), searchable at https://pubmed.ncbi.nlm.nih.gov/.

Table \$8.4 Major pathological features and prognosis of small cell neuroendocrine carcinoma (SCNEC) at various anatomical sites (continued from previous page, continued on next page)

Site	Macroscopic appearance	Histopathology	IHC	Grading	Cytology	Diagnostic molecular pathology	Diagnostic criteria	Staging	Prognosis
Small intestine and ampulla	Large and invasive mass (median size: 25 mm)	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Poor prognosis; survival time: a few months (no large studies available)
Appendix {18197972}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, TTF1	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Poor prognosis; no large studies available
Colorectum {33135938; 28059096; 17063080; 29354876; 25465415}	Grossly similar to conventional adenocarcinoma	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, CDX2 (usually) Variable: chromogranin A, synaptophysin, TTF1	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	Usually not performed / not clinically relevant	Rare MMR-deficient status but potential clinical utility	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median OS times for patients with extensive and limited disease: 4.04 months and 21.82 months, respectively; administration of chemotherapy and radiotherapy but not surgery are associated with improved survival
Liver {23280574}	Typically a solitary circumscribed mass with gross necrosis	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	SCNEC classic	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median survival time: 2 months
Gallbladder and bile ducts {29548338; 28040546; 26208508}	Solid mass with necrotic areas	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition Mitotic rate: > 20 mitoses/ 2 mm ² ; Ki-67: > 20%	SCNEC classic (brushing)	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median survival time: 3 months
emale genital tract									
Ovary {24875120; 29621125}	Nonspecific; mean size: 130 mm	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, TTF1	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	5-year OS rates of 48.6%, 30.7%, 18%, and 12.3% for stages I, II, III, and IV; earlier disease stage and use of CT are associated with lower mortality
Fallopian tube {10053109}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Unknown
Endometrium {24875120; 32773531}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, p16 MMR abnormalities in 50%	High-grade by definition	SCNEC classic (both on smears and on liquid-based cytology samples)	Rare MMR-deficient status but potential clinical utility	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Mean OS times of 22 and 12 months in early and late stages, respectively
Cervix {24875120; 33888337; 30355937; 33830625}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, p16 (in the majority of cases), TTF1 (often) Variable: chromogranin A, synaptophysin, CDX2, p63	High-grade by definition	SCNEC classic (both on smears and on liquid-based cytology samples)	HPV typing useful	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median OS time of 22–25 months; 5-year OS rate of 35%; adverse prognostic indicators are advanced FIGO stage, larger tumour size, lymph node metastasis, lymphovascular space involvement, parametrial involvement, depth of stromal invasion > 2/3, radiotherapy but not chemotherapy

IHC, immunohistochemistry; ISH, in situ hybridization; LCNEC, large cell neuroendocrine carcinoma; MCC, Merkel cell polyomavirus; MMR, mismatch repair; NE, neuroendocrine; OS, overall survival; TTF1, thyroid transcription factor 1; UV, ultraviolet.

"See also the relevant site-specific volumes of the WHO Classification of Tumours series. Head and neck tumours. [WHO Classification of Tumours Series, 5th ed.; vol. 9). https://publications.iarc.who.int/629.]], Thoracic tumours. [WHO Classification of Tumours Series, 5th ed.; vol. 5). https://publications.iarc.who.int/595.]], Digestive system tumours. Lyon (France): International Agency for Research on Cancer; 2021. (WHO classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Female genital tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Breast tumours [[WHO Classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Urinary and male genital tumours. Lyon (France): International Agency for Research on Cancer; 2022. (WHO classification of Tumours Series, 5th ed.; vol. 4). https://publications.iarc.who.int/592.]], Urinary and male genital tumours. Lyon (France): International Agency for Research on Cancer; 2022. (WHO classification of Tumours Series, 5th ed.; vol. 2). https://publications.iarc.who.int/591.]], Urinary and male genital tumours. Lyon (France): International Agency for Research on Cancer; 2022. (WHO classification of Tumours Series, 5th ed.; vol. 8). https://publications.iarc.who.int/610.]], and Skin tumours [[WHO Classification of Tumours Editorial Board. Skin tumours Series, 5th ed.; vol. 12). https://tumourclassification.iarc.who.int/chapters/64.]].

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Table \$8.4 Major pathological features and prognosis of small cell neuroendocrine carcinoma (SCNEC) at various anatomical sites^a (continued)

Site	Macroscopic appearance	Histopathology	IHC	Grading	Cytology	Diagnostic molecular pathology	Diagnostic criteria	Staging	Prognosis
Vagina {33792412; 24875120}	Nonspecific, also submucosal	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition	SCNEC classic (both on smears and on liquid-based cytology samples)	HPV typing useful	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Poor prognosis (mean OS time: 10 months); no large studies available
Vulva {24875120}	Nodules usually predominantly intradermal with areas of haemorrhage, necrosis, and ulceration	SCNEC classic or MCC morphology	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin TTF1+ in SCNEC classic CK20+ and MCPyV+ in MCC	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Unknown for SCNEC classic; see below for MCC
Breast									
Breast {32336623; 33135938; 33584543; 32613538}	No distinctive macroscopic appearance compared with other breast carcinomas	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse, ER, PR, AR, GATA3, GCDFP-15 Variable: chromogranin A, synaptophysin Negative: ERBB2	High-grade by definition	SCNEC classic	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median OS time: 3–5 years; 5-year survival rate: 42%
Urinary and male genital tracts									
Kidney {33477429}	Solid mass with frequent necrosis	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	Median OS time: of 9.3 months
Urinary tract {21567387; 33561506; 31664527; 27698324}	Large, solid, solitary, polypoid, nodular mass with or without ulceration	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, GATA3 (in ~30% of cases), TTF1 (in 40% of cases)	High-grade by definition	SCNEC classic (both on smears and on liquid-based cytology samples)	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	5-year OS rate: 8–25% Organ-confined disease and chemotherapy are favourable prognostic factors
Prostate {33664492; 21336263; 18162772; 24323898; 33847621; 33582100}	Nonspecific (rarely surgically resectable)	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin, TTF1 (in 50% of cases), PSA, AR, NKX3-1 (in a minority of cases)	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE carcinoma	5-year OS rate: 14%; median OS time: 12 months in cases with pure histology
Testis {25207197}	No specific features	SCNEC classic	Positive: AE1/AE3, CAM5.2 dot-like or diffuse Variable: chromogranin A, synaptophysin	High-grade by definition	Usually not performed / not clinically relevant	No established role	Essential: small cell epithelial neoplasm with high- grade features, finely granular nuclear chromatin, and no prominent nucleoli Desirable: two positive NE marker(s); high proliferation index (> 30%, most frequently > 75%); p53 overexpression and/or RB1 loss; SSTR2–5	Non-NE tumours	Poor prognosis

IHC, immunohistochemistry; ISH, in situ hybridization; LCNEC, large cell neuroendocrine carcinoma; MCPyV, Merkel cell polyomavirus; MMR, mismatch repair; NE, neuroendocrine; OS, overall survival; TTF1, thyroid transcription factor 1; UV, ultraviolet.

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