

高雄榮民總醫院

鼻咽癌診療原則

2021年04月28日第一版

鼻咽癌醫療團隊擬訂

注意事項：這個診療原則主要作為醫師和其他保健專家診療癌症病人參考之用。假如你是一個癌症病人，直接引用這個診療原則並不恰當，只有你的醫師才能決定給你最恰當的治療。

會議討論

上次會議：2020/07/15

本共識與上一版的差異

上一版	新版
<ol style="list-style-type: none">1. Work-up增加± Neck FNA, ± Chest CT2. 獨立出T1N0M0治療頁面，合併M1到Any T, any N, M1(於2017年分開)3. 在M1治療中新增treatment to oligometastatic site4. Follow up新增3-6月追蹤TSH(if neck irradiated)5. Definite RT 劑量上調至2.2Gy/Fr.6. 按照NCCN guideline調整induction/ adjuvant , recurrent/metastasis chemotherapy regimen順序7. 新增induction C/T regimen: GP8. 刪除 Recurrent/Met MEP, PEB regimen9. 新增metastatic regimen : immunotherapy10. Adjuvant CT@ P5 @ N3, T3-4N1-2, or stage IV11. Induction CT + CCRT or RT 註1-3 P5 (視病情需求, 如: EBV titer> 1000, bulky T3, advanced N2\$) \$ Diffuse LAP near the cricoid cartilage, big LAP \geq 5 cm (2020/07/08 團隊會議增訂)	<ol style="list-style-type: none">1. Workup中的Multidisciplinary consultation加上會診項目 Fertility/reproductive, smoking cessation, ophthalmologic and endocrine evaluation if indicated2. Clinical staging增加T0 (EBV+)3. [Clinical T0(EBV+)- T1, N1-3 or T2-4, any N, M0]的部分，經過治療後如果CR，刪除adjuvant C/T4. [Clinical T0(EBV+)- T1, N1-3 or T2-4, any N, M0] Primary treatment的部分，將induction CT + CCRT or RT 的優先順序移至 CCRT ± Adjuvant CT 之前。

Carcinoma of Nasopharynx

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WORK-UP	STAGING & TREATMENT	FOLLOW-UP
<ul style="list-style-type: none">• <u>History & PE & NPscopy</u>• NP biopsy ± Neck FNA• <u>Image</u><ul style="list-style-type: none">→ MRI* or CT* of H&N or PET/CT→ Chest X-ray * (if PET/CT not done)→ Bone scan * (if PET/CT not done)→ Abd. Sono *→ ± PET scan ± Chest CT• <u>EBV status</u>: viral load, ± EB-EA/NA, ± EB-VCA IgG/IgA• <u>Dental evaluation*</u><ul style="list-style-type: none">→ Panorex ± teeth extraction• <u>Hearing evaluation</u><ul style="list-style-type: none">→ PTA, tympanogram• <u>Multidisciplinary consultation</u> (± Fertility/reproductive, smoking cessation, ophthalmologic and endocrine evaluation if indicated) <p>(* 期別之相關之主要檢查)</p>	<ul style="list-style-type: none">• <u>[T1, N0, M0]</u> 詳見 Page 2• <u>[T0(EBV+)-T1, N1-3, M0] or [T2-4, any N, M0]</u> 詳見 Page 3• <u>[M1]</u> 詳見 Page 4	<ul style="list-style-type: none">• <u>[Post-Tx within 6 months]</u><ul style="list-style-type: none">→ Post-Tx baseline MRI and/or CT, EBV viral load,→ Every 2-3 months: PE, NPscopy± Neck Sono• <u>[0.5-3 years]</u><ul style="list-style-type: none">→ Every 3-4 months: PE, NPscopy+/- EBV viral load,→ Every 1 yr: ± EB-EA/NA ± EB-VCA IgG/IgA, MRI and/or CT, CxR, WBBS & Abd. Sono as indicated, ±TSH, free T4*• <u>[3-5 years]</u> → Every 4-6 months: PE, NPscopy• <u>[5 years later]</u><ul style="list-style-type: none">→ Every 6-12 months: PE, NPscopy <p style="text-align: right;">3</p> <p>(*if RT, 6-12 months)</p>

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Clinical T1N0M0

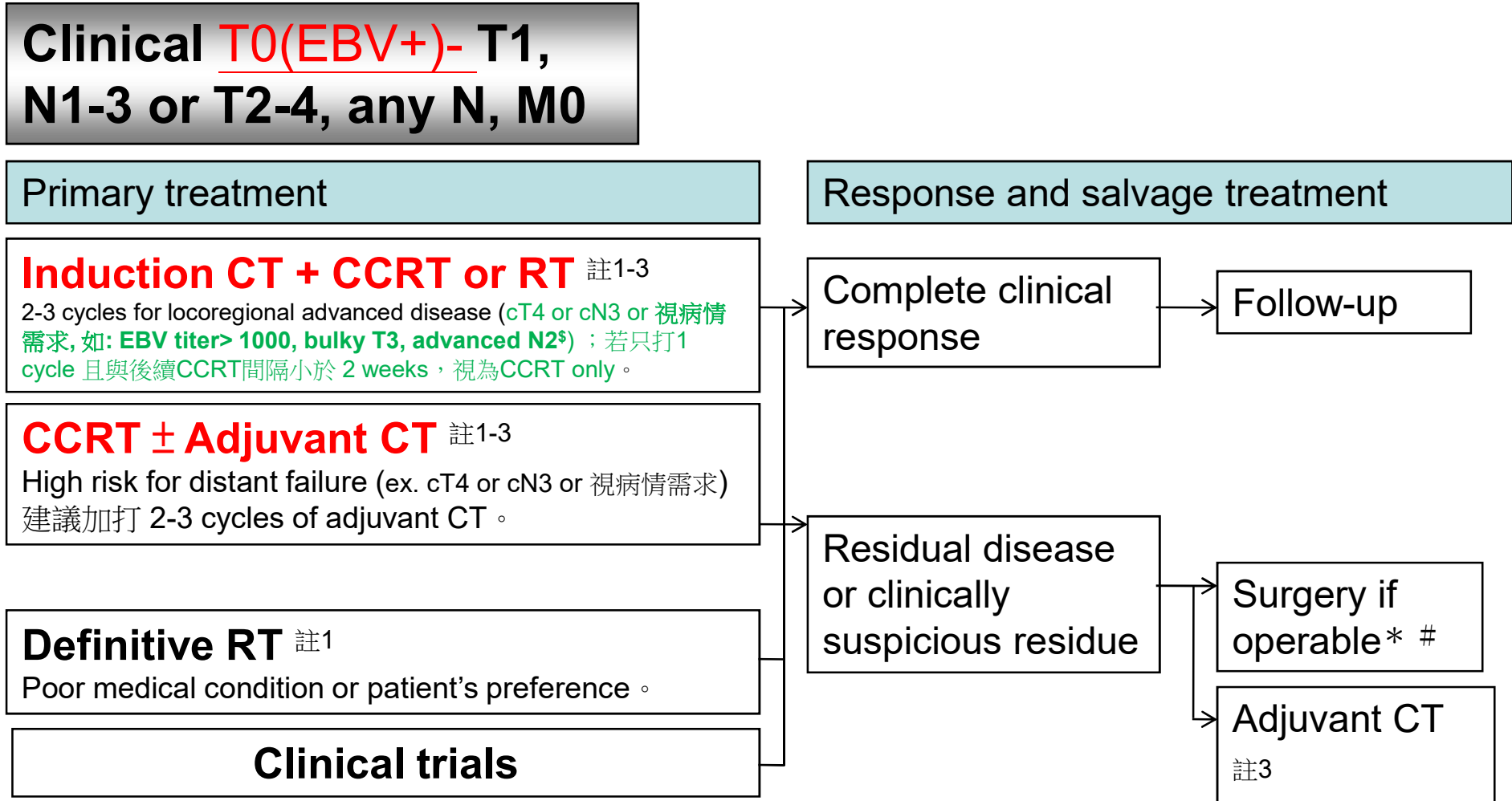
Primary treatment

**Definitive RT to nasopharynx
And elective RT to neck**

→ **Follow-up**

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Salvage neck dissection is indicated if residual neck disease.

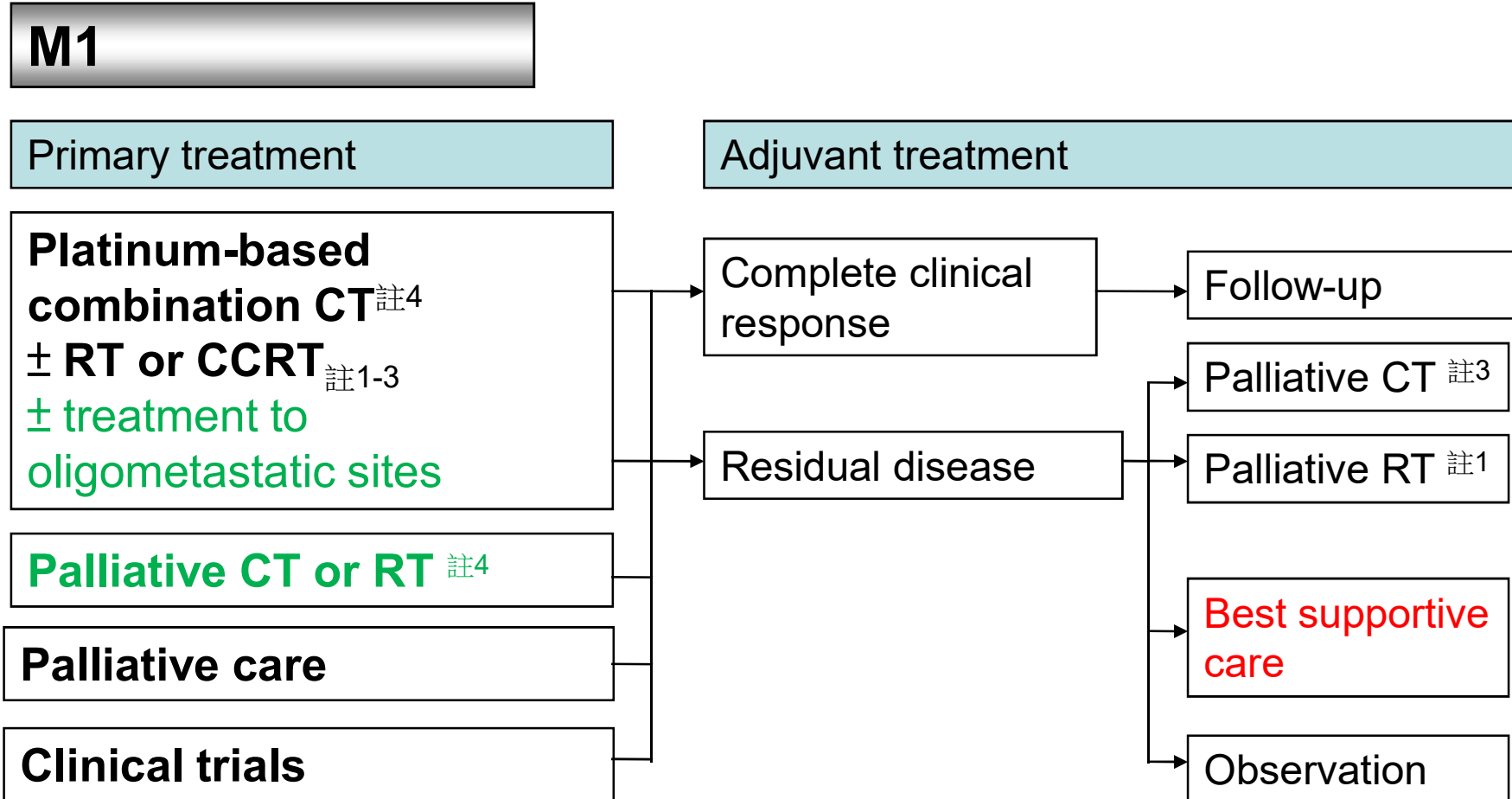
* Salvage nasopharyngectomy is indicated for operable residual primary tumor.

^{\$} Diffuse LAP near the cricoid cartilage, big LAP ≥ 5 cm (2020/07/08 團隊會議增訂)

@ N3, T3-4N1-2, or stage IV (2020/07/08 團隊會議增訂)

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註1 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 5 (Ref. 1,5,6)

Principles of Radiotherapy

Definitive Radiotherapy

- Primary and gross adenopathy : 66 - 74 Gy (2.0-2.2 Gy/fraction)
- Neck uninvolved nodal stations : 44 - 58 Gy (1.6-2.0 Gy/fractions)
- Suspicious Neck lymph nodes : 59.4 Gy (2.2 Gy/fractions) (optional)
- Adaptive radiotherapy : direct CCRT, BW change more than 3-5 kg, high initial stage etc (optional)

CCRT or RT

- RT alone if : Old age, Impaired renal function, Poor condition

Palliative RT

- Indicated in : Relieve local symptoms, Prevent debilitation such as spinal cord compression and pathological fracture, Achieve durable locoregional control.

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註2 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 6 (Ref. 1,5-9)

Principles of Chemotherapy

Concurrent with RT

Regimen 1: q3w CDDP ± Cetuximab + RT 註5

- Cisplatin (80-100mg/ m²) q3w during R/T
- Cetuximab(400mg/ m²) loading dose first week, then Cetuximab(250mg/ m²) maintain dose D1 + Cisplatin (80-100mg/ m²) q3w D2 during R/T

Regimen 2: Weekly CDDP ± Cetuximab + RT 註5

- Cisplatin (30-40mg/ m²) weekly during R/T
- Cetuximab(400mg/ m²) loading dose first week, and then Cisplatin (30-40mg/ m²) weekly D1 + Cetuximab(250mg/ m²) maintain dose D2 during R/T

Regimen 3: q3w Carboplatin ± Cetuximab + RT 註5

- Carboplatin (AUC x 5mg) q3w during R/T
- Cetuximab(400mg/ m²) loading dose first week, then Cetuximab(250mg/ m²) maintain dose D1 + Carboplatin (AUC x 5mg) q3w D2 during R/T

Regimen 4: Weekly Cetuximab + RT 註5

- Cetuximab(400mg/ m²) loading dose first week, then Cetuximab(250mg/ m²) maintain dose during RT

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註3 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 7 (Ref. 5-8)

Regimens of Chemotherapy

Induction or adjuvant, 建議2-3cycles

Regimen 1 : q3w G^{註5} P

- Gemcitabine (1000mg/ m²) D1, 8
- Cisplatin (80mg/ m²) D1

Regimen 2 : q3w G^{註5} Carboplatin

- Gemcitabine (1000mg/ m²) D1, 8
- Carboplatin (AUC x 5mg) D1

Regimen 3 : q3-4 weeks T + P ± F ± weekly Cetuximab^{註5}

- Taxotere(60 mg/ m²) D1 ^{註5}
- Cisplatin(60-75 mg/ m²) D1
- Fluorouracil (5-FU)(600-750mg/ m²) D2-D5
- Cetuximab (400mg/ m²) loading dose first week, then Cetuximab (250mg/ m²) maintain dose

Regimen 4 : q3-4 weeks T + Carboplatin ± F ± weekly Cetuximab^{註5}

- Taxotere(60 mg/ m²) D1 ^{註5}
- Carboplatin (AUC x 5mg) D1
- Fluorouracil (5-FU)(600-750mg/ m²) D2-D5
- Cetuximab (400mg/ m²) loading dose first week, then Cetuximab (250mg/ m²) maintain dose

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註3 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 8 (Ref. 5-12)

Regimens of Chemotherapy *Induction or adjuvant, 建議2-3cycles*

Regimen 5: q3-4 weeks CDDP ± F ± weekly Cetuximab 註5

- Cisplatin(80-100mg/ m²) D1 or Cisplatin (20mg/ m²) D1-D5
- Fluorouracil (5-FU) (1000mg/ m²) D1-D5
- Cetuximab(400mg/ m²) loading dose first week, then weekly Cetuximab (250mg/ m²)

Regimen 6: q3-4 weeks Carboplatin ± F ± weekly Cetuximab 註5

- Carboplatin (AUC x 5mg) D1
- Fluorouracil (5-FU) (1000mg/ m²) D2-D5
- Cetuximab(400mg/ m²) loading dose first wk, then weekly Cetuximab (250mg/ m²)

Regimen 7: oral Fluorouracil

- Ufur cap (tegafur 100mg+uracil 224mg) 2# **BID-TID**
(作為取代 IV form 5-FU之替代藥物)

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註4 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 9 (Ref. 13-22)

Regimens of Chemotherapy

Recurrent or metastatic disease

Regimen 1 (First line): q3w G^{註5} ± P

- Gemcitabine (1000mg/ m²) D1, 8
- Cisplatin (80mg/ m²) D1

Regimen 2: q4w GGG^{註5} ±P

- Gemcitabine (1000mg/ m²) D1, 8, 15
- Cisplatin (50-60mg/ m²) D22

Regimen 3: q3w G^{註5} Carboplatin

- Gemcitabine (1000mg/ m²) D1, 8
- Carboplatin (AUC x 5mg) D1

Regimen 4: q3-4 weeks P ± F

- Cisplatin(80-100mg/ m²) D1 or Cisplatin (20mg/ m²) D1-D5
- Fluorouracil (5-FU) (600-1000 mg/m²) D2-D5

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註4 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 10 (Ref. 13-22)

Regimens of Chemotherapy

Recurrent or metastatic

Regimen 5: q3-4 weeks Carboplatin ± F

- Carboplatin (AUC x 5mg) D1
- Fluorouracil (5-FU) (1000mg/ m²) D2-D5

Regimen 6: q3-4 weeks T ± P

- Taxotere(60 mg/ m²) D1 註5
- Cisplatin(60-75 mg/ m²) D1

Regimen 7: q3-4 weeks T ± Carboplatin

- Taxotere(60 mg/ m²) D1 註5
- Carboplatin (AUC x 5mg) D1

Regimen 8: q3-4 weeks Carboplatin ± weekly Cetuximab 註5

- Carboplatin (AUC x 5mg) D1
- Cetuximab(400mg/ m²) loading dose first week, then weekly Cetuximab (250mg/ m²)

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註4 高雄榮民總醫院 臨床診療指引 Ver.1 修訂於2021.04.28 Page 11 (Ref. 13-22)

Regimens of Chemotherapy

Recurrent or metastatic

Regimen 9: weekly Methotrexate

- Methotrexate (40-60mg/ m²)

Regimen 10: weekly Cetuximab 註5

- Cetuximab (400mg/ m²) loading dose first week, then Cetuximab (250mg/ m²) maintain dose

Regimen 11: oral Fluorouracil

- Ufur cap (tegafur 100mg+uracil 224mg)

2# BID-TID

(作為取代 IV form 5-FU之替代藥物)

Regimen 12: q3 weeks

Pembrolizumab

- Pembrolizumab(200mg) D1

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Regimens of Chemotherapy

Recurrent or metastatic

Regimen 13: q2 weeks Nivolumab

- Nivolumab(3mg/kg) D1

Regimen 14: FL

- Leucovorin (250 mg/ m²) D1
- Fluorouracil (5-FU) (2500 mg/ m²) D1

Regimen 15: P-FL

- Cisplatin (60mg/ m²) week 1, 3, 5, 7
- Fluorouracil (5-FU)(2500mg/ m²) + Leucovorin (250mg/ m²) mixed week 2, 4, 6, 8

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特殊用藥健保給付規定

Taxotere

- 頭頸部癌，限局部晚期且無遠端轉移之頭頸部鱗狀細胞癌且無法手術切除者。
- 與Cisplatin 及5-FU 併用，作為放射治療前的引導治療，限使用四個療程。

Cetuximab

- 限與放射線療法合併使用於局部晚期之口咽癌、下咽癌及喉癌患者，使用總療程以接受8次輸注為上限。需經事前審查核准後使用。
符合下列條件之一：
 1. 年齡 ≥ 70 歲
 2. $Ccr < 50ml/min$
 3. 聽力障礙者 (聽力障礙定義為500Hz、1000Hz、2000Hz 平均聽力損失大於25 分貝)
 4. 無法耐受platinum-based 化學治療。
- 限無法接受局部治療之復發及/或轉移性頭頸部鱗狀細胞癌，且未曾申報 cetuximab 之病患使用。需經事前審查核准後使用，使用總療程以18週為限，每9週申請一次，需無疾病惡化情形方得繼續使用。(106/4/1)

Carboplatin

- 限腎功能不佳 ($CCr < 60$) 或曾作單側或以上腎切除之惡性腫瘤患者使用。

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特殊用藥健保給付規定

Pembrolizumab、Nivolumab

• 先前已使用過 platinum 類化學治療失敗後，又有疾病惡化的復發或轉移性頭頸部鱗狀細胞癌成人患者。本類藥品與 cetuximab 僅能擇一使用，且治療失敗時不可互換。

• 符合下列條件：

1. 病人身體狀況良好(ECOG \leq 1)
2. NYHA (the New York Heart Association) Functional Class I 或 II
3. GOT $<$ 60U/L及GPT $<$ 60U/L，且T-bilirubin $<$ 1.5mg/dL；Creatinine $<$ 1.5mg/dL，且 eGFR $>$ 60mL/min/1.73m²
4. PD-L1 表現量 TPS \geq 50%

• 初次申請以12 週為限，申請時需檢附以下資料：病理或細胞檢查報告、生物標記(PD-L1)表現量檢測報告、病人身體狀況良好(ECOG \leq 1)及心肺與肝腎功能之評估資料、符合 i-RECIST 定義之影像檢查及報告(上述影像檢查之給付範圍不包括PET)、先前已接受過之治療與完整用藥資料、使用免疫檢查點抑制劑之治療計畫(treatment protocol)。

• 用藥後每 12 週評估一次，以 i-RECIST 或 mRECIST 標準評定反應，依下列原則給付：

- I. 有療效反應者(PR 及 CR)得繼續使用；
- II. 出現疾病惡化(PD)或出現中、重度或危及生命之藥物不良反應時，應停止使用；
- III. 疾病呈穩定狀態者(SD)，可持續再用藥 4 週，並於 4 週後再次評估，經再次評估若為 PR、CR 者，得再繼續使用 12 週。若仍為 SD 或已 PD 者，應停止使用。

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註5

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特殊用藥健保給付規定

Gemcitabine

限用於：

- 1.晚期或無法手術切除之非小細胞肺癌及胰臟癌病患。
- 2.晚期膀胱癌病患。
- 3.Gemcitabine與paclitaxel併用，可使用於曾經使用過anthracycline之局部復發且無法手術切除或轉移性之乳癌病患。
- 4.用於曾經使用含鉑類藥物(platinum-based) 治療後復發且間隔至少6個月之卵巢癌，作為第二線治療。
- 5.無法手術切除或晚期或復發之膽道癌(含肝內膽管)病患。

備註：頭頸癌與鼻咽癌目前無健保給付

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