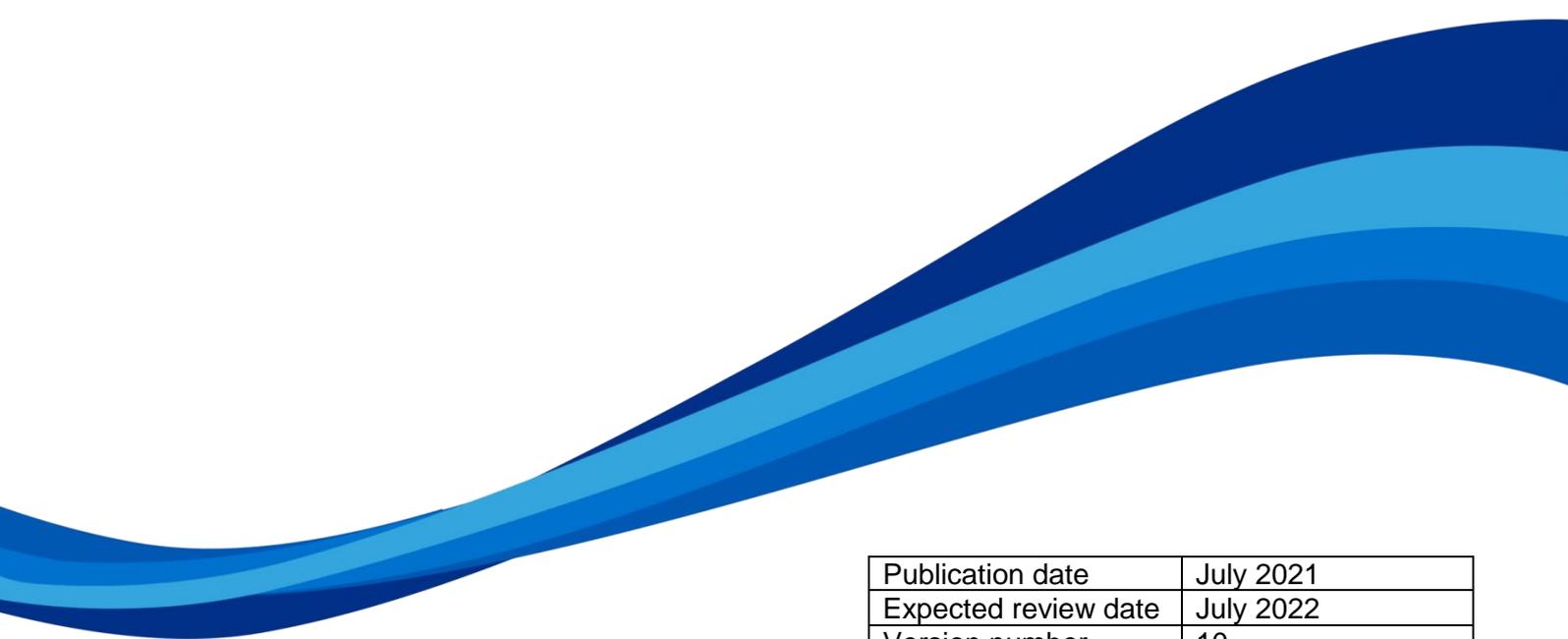


# Oncological Treatment of Head and Neck Cancer Pathway of Care



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## Contents

<b>1.0 INTRODUCTION</b> .....	<b>3</b>
1.1 Overview .....	3
1.2 Guidelines on the Management of Drug-specific Toxicity .....	3
<b>2.0 Squamous carcinomas of the lip and oral cavity.</b> .....	<b>4</b>
2.1 Radical Treatment .....	4
2.2 Adjuvant Treatment .....	4
2.3 Palliative Treatment.....	5
2.3.1 Palliative Radiotherapy.....	5
2.3.2 Palliative Systemic therapy.....	5
<b>3.0 Squamous Carcinomas of the oropharynx, hypopharynx and larynx.....</b>	<b>7</b>
3.1 Radical Treatment .....	7
3.2 Neo-adjuvant Treatment.....	7
3.3 Palliative systemic therapy .....	8
<b>4.0 Malignant salivary gland tumours .....</b>	<b>8</b>
4.1 Radical treatment .....	8
4.2 Adjuvant Treatment .....	8
4.3 Palliative Treatment.....	8
<b>5.0 Sino-nasal and ear cancers.....</b>	<b>9</b>
5.1 Radical treatment .....	9
5.2 Neo-adjuvant treatment .....	10
5.3 Adjuvant treatment .....	10
5.4 Palliative treatment.....	10
<b>6.0 Nasopharyngeal Cancer .....</b>	<b>10</b>
6.1 Radical Treatment .....	10
6.2 Neo-adjuvant Treatment.....	11
6.3 Palliative Treatment.....	11
<b>7.0 Miscellaneous Treatment .....</b>	<b>12</b>
<b>8.0 Appendix A: Clinical Trials.....</b>	<b>12</b>
<b>9.0 Personnel and Contact Information.....</b>	<b>13</b>
<b>10.0 Glossary .....</b>	<b>13</b>
<b>11.0 DOCUMENT ADMINISTRATION.....</b>	<b>15</b>

## 1.0 INTRODUCTION

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### 1.1 Overview

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This document has been written to provide guidance on the treatment of head and neck cancer in the Kent & Medway Cancer Collaborative.

Radiotherapy schedules are as defined in the Kent Oncology Centre Quality System Clinical Protocols (Disease Management and Radiotherapy Protocols).

See network chemotherapy prescribing proformas for details of chemotherapy / anti-cancer regimens.

All patients will be considered for entry into a clinical trial (see appendix A).

All patients should be discussed within a multidisciplinary team meeting before commencing initial treatment.

For skin cancers and sarcomas arising in the head and neck area, reference should be made to skin cancer and sarcoma treatment guidelines.

Please note, some of the drugs/doses recommended within this document are outside of the U.K. licensed marketing authorisation.

Patients with NTRK gene fusion may be considered for entrectinib or larotrectinib in line with commissioning criteria.

To allow for flexibility in the management of cancer during the COVID-19 pandemic, NHS England has endorsed interim treatment regimens for some cancer medicines. This is to reduce the need for direct patient contact for administration of drugs and to minimise potential side effects that make people more susceptible to viral infections and other ill-health effects that may add pressure to the health system. These interim treatment regimens can be access here:

<https://www.nice.org.uk/guidance/ng161/chapter/7-Modifications-to-usual-service#interim-nhs-england-treatment-regimens>

### 1.2 Guidelines on the Management of Drug-specific Toxicity

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#### **DPD testing:**

Fluoropyrimidines are rapidly degraded by dihydropyrimidine dehydrogenase (DPD). Therefore, DPD deficiency can lead to severe toxicity or death following treatment with, for example, 5-FU or capecitabine. Homozygotes to DPD are rare (but likely to have severe toxicity or die).

All patients due to receive fluoropyrimidine based therapy, should have a DPD test prior to starting treatment. Any patient who has not had a DPD test should be discussed with the consultant prior to going ahead. In exceptional circumstances where an agreement is made from the consultant that the patient can go ahead without a DPD test, the consultant or pharmacist must document clearly on the chemotherapy prescribing system and, in the patient's, medical record.

There are 3-5% of patients who are heterozygotes and are likely to develop toxicity; dose reduction is recommended in line with the UK chemotherapy board recommendations.

### Uridine triacetate:

Uridine triacetate (Vistoguard) is an antidote for management of early-onset severe or life-threatening toxicity, including diarrhoea, within 96 hours following 5FU or capecitabine administration. It is not licensed in the UK, but is available on an unlicensed basis via a 24/7 emergency ordering service, via tel 0207 8872235. The policy statement (link below) from NHSE contains information on inclusion / exclusion criteria and also dosing information.

[https://www.england.nhs.uk/wp-content/uploads/2020/03/1929\\_Policy\\_Statement\\_Final\\_v2.pdf](https://www.england.nhs.uk/wp-content/uploads/2020/03/1929_Policy_Statement_Final_v2.pdf)

## 2.0 SQUAMOUS CARCINOMAS OF THE LIP AND ORAL CAVITY.

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This group includes cancers of the lip, anterior two-thirds of the tongue, floor of mouth, gum (alveolus) and hard palate.

### 2.1 Radical Treatment

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Surgery is the preferred initial treatment.

Those with disease beyond the scope of surgery or those not sufficiently fit for surgery may be considered for radical radiotherapy +/- chemotherapy; neo-adjuvant chemotherapy can be considered for rare selective cases. For neo-adjuvant treatment options see section 3.2.

### 2.2 Adjuvant Treatment

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Histology is reviewed in the H&N Multidisciplinary Meeting with emphasis on risk stratification. On this basis, patients may be grouped into those at high, intermediate or low risk of locoregional recurrence.

High risk features are:

- the presence of primary tumour at the resection margin
- nodal involvement with extracapsular spread.

Intermediate risk features are:

- resection margins <5mm
- perineural infiltration
- discohesive invasion front
- vascular invasion
- nodal involvement without extracapsular spread
- adenoid cystic carcinoma

Those with high risk features are considered for postoperative concurrent chemoradiotherapy. Radiotherapy doses are governed by the respective Q Pulse Documents on radiotherapy protocols.

Concurrent chemotherapy options include:

Cisplatin	80-100mg/m <sup>2</sup>	Every 3-4 weeks during radiotherapy	2- 3 cycles
Cisplatin	40mg/m <sup>2</sup>	Every week during radiotherapy	6 cycles
Carboplatin*	AUC 4-5	Every 3-4 weeks during radiotherapy	2- 3 cycles
Carboplatin*	AUC 1 – 1.5	Every week during radiotherapy	6 cycles

\*(if unable to use cisplatin)

Those with intermediate risk features are considered for postoperative radiotherapy alone.

## 2.3 Palliative Treatment

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### 2.3.1 Palliative Radiotherapy

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Palliative radiotherapy may be considered as initial treatment for those with locally advanced disease not amenable to radical treatment or patients with poor performance status.

Radiotherapy doses are governed by the respective Q Pulse Documents on radiotherapy protocols.

### 2.3.2 Palliative Systemic therapy

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Systemic treatments may be considered for selected patients with metastatic disease.

Patients should have their PD-L1 status assessed.

Treatment options which can be considered are below.

<b>1<sup>st</sup> Line</b>			
Regimen	Doses	Duration	Indication
Pembrolizumab Monotherapy – previously untreated metastatic or unresectable recurrent disease; PD-L1 positive, CPS $\geq 1$	200mg every 21d OR 400mg every 42d where appropriate	Max 2 years treatment or disease progression (whichever comes earliest)	Non-bulky disease
Cetuximab + Cisplatin + 5FU Followed by maintenance Cetuximab	Cetuximab 400mg/m <sup>2</sup> loading dose, then 250mg/m <sup>2</sup> weekly. & Cisplatin 100mg/ m <sup>2</sup> every 21d & 5FU 1000mg/ m <sup>2</sup> day 1 – 4 every 21d  Maintenance Cetuximab 500mg/m <sup>2</sup>	Cisplatin and 5FU with weekly Cetuximab x Max 6 cycles  Followed by  Maintenance cetuximab until disease progression.	For bulky or symptomatic disease.
Cisplatin + 5FU	Cisplatin 100mg/ m <sup>2</sup> every 21d & 5FU 1000mg/ m <sup>2</sup> day 1 – 4 every 21d	Max 6 cycles	
Carboplatin can be substituted for cisplatin; for those unlikely to tolerate large fluid loads or borderline renal function, performance status or ototoxicity. Carboplatin AUC 4 - 5			
<b>Subsequent lines</b>			
Paclitaxel	80mg/ m <sup>2</sup> d1, d8, d15 Every 28d	Max 6 cycles	Can be considered as first line in certain cases
Nivolumab monotherapy	240mg every 2 weeks OR 480mg every 4 weeks where appropriate	Max 2 years treatment or disease progression (whichever comes earliest)	For SCC only after prior platinum-based chemotherapy. CANNOT BE USED if received prior treatment with an anti-PD-1, anti-PD-L1, anti-PD-L2, anti-CD137, or anti-Cytotoxic T-lymphocyte-associated antigen-4 (CTLA-4) antibody.
Gemcitabine + Cisplatin	Gemcitabine 1200mg/ m <sup>2</sup> d1 and d8 Cisplatin 75mg/ m <sup>2</sup> d1 Every 21d	Max 6 cycles	
Gemcitabine + Carboplatin	Gemcitabine 1200mg/ m <sup>2</sup> d1 and d8 Carboplatin AUC5 d1 Every 21d	Max 6 cycles	
Gemcitabine monotherapy	1250mg/ m <sup>2</sup> d1, d8 every 21d	Max 6 cycles	
Docetaxel	75mg/ m <sup>2</sup> , Every 21d	Max 6 cycles	

Cetuximab is only licenced in oral cavity tumours in the palliative setting, as per NICE guidance August 2017.

### 3.0 SQUAMOUS CARCINOMAS OF THE OROPHARYNX, HYPOPHARYNX AND LARYNX.

This group covers all oropharyngeal tumours (soft palate, tonsil, base of tongue, pharyngeal wall); hypopharynx (pharyngeal wall, pyriform fossa and postcricoid) and laryngeal tumours (supra, sub and trans glottis and epiglottis).

#### 3.1 Radical Treatment

Primary radiotherapy +/- concurrent chemotherapy is the preferred treatment for such cases. Please refer to the higher operational policy for the specific indications for each tumour subgroup indication.

For concurrent chemo-radiotherapy regimens please refer to section 2.2.

Cetuximab can be given concurrently with radiotherapy for patients PS 0-1, whom platinum based therapy is not appropriate.

Cetuximab 400mg/m<sup>2</sup> loading dose 1 week prior to radiotherapy, then 250mg/m<sup>2</sup> weekly during radiotherapy and 1 week after.

#### 3.2 Neo-adjuvant Treatment

Neo-adjuvant (induction) chemotherapy is recommended for locally advanced squamous cancers, such as T3/T4 disease and bulky nodal disease, prior to concurrent chemo-radiotherapy. Patients must be PS0-1, and aged 70 or less. *Treatment can be offered to older patients, but based on individual case review, comorbidities and MDT discussion.*

Regimens include:

Regimen	Doses	Duration	Indication
TPF (docetaxel, cisplatin and 5FU)	Docetaxel 75mg/ m <sup>2</sup> d1 Cisplatin 75mg/ m <sup>2</sup> d1 5FU 750mg/ m <sup>2</sup> d1-d5 21d	2-4 cycles	Consider starting at 60mg/m <sup>2</sup> for docetaxel/cisplatin and 600mg/m <sup>2</sup> 5FU for patients with comorbidities
T-Carbo-F	Docetaxel 75mg/ m <sup>2</sup> d1 Carboplatin AUC5 d1 5FU 750mg/ m <sup>2</sup> d1-d5 21 d	2-4 cycles	Consider starting docetaxel at 60mg/m <sup>2</sup> and carboplatin at AUC4 for selective cases with comorbidities
TP or T-Carbo	Omitting 5FU; but as above	2-4 cycles	As above
Cisplatin + 5FU	Cisplatin 100mg/ m <sup>2</sup> d1 5FU 1000mg/m <sup>2</sup> d1 – d4 21d	Up to max 6 cycles	
Carboplatin +5FU	Carboplatin AUC5 d1 5FU 1000mg/ m <sup>2</sup> d1-d4 21d	Up to max 6 cycles	

Surgery can be considered following chemotherapy for poor responders or based on individual cases as discussed in the MDT, with consideration for adjuvant radiotherapy+/-chemotherapy following surgery.

### **3.3 Palliative systemic therapy**

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Please see section 2.3.2 for the regimens which can be considered.

## **4.0 MALIGNANT SALIVARY GLAND TUMOURS**

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This group includes cancers of the parotid and submandibular glands and of minor salivary glands located within the oral cavity and pharynx.

### **4.1 Radical treatment**

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Surgery is the preferred initial treatment.

Those with disease beyond the scope of surgery or those not sufficiently fit for surgery may be considered for radical radiotherapy. There is no established role for concurrent chemoradiotherapy.

### **4.2 Adjuvant Treatment**

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Postoperative radiotherapy should be considered for those with high grade tumours or with tumour present at or close to resection margins.

### **4.3 Palliative Treatment**

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Palliative radiotherapy may be considered as initial treatment for those with locally advanced disease and poor performance status.

Chemotherapy may be considered for selected patients with metastatic disease and/or locally advanced locoregional disease beyond the scope of surgery and radiotherapy (excluding those with adenoid cystic carcinoma).

Chemotherapy regimens include:

Regimen	Doses	Duration
Carboplatin and paclitaxel	Carboplatin AUC 5 D1 Paclitaxel 175mg/ m <sup>2</sup> D1 Every 21D	Max 6 cycles
ECF (epirubicin, cisplatin, 5FU)	Epirubicin 50mg/ m <sup>2</sup> D1 Cisplatin 60mg/m <sup>2</sup> D1 5FU 1400mg/ m <sup>2</sup> /7days D1, D8, D15 Every 21D	6 cycles
ECX (epirubicin, cisplatin, capecitabine)	Epirubicin 50mg/ m <sup>2</sup> D1 Cisplatin 60mg/ m <sup>2</sup> D1 Capecitabine 625mg/ m <sup>2</sup> BD continuously Every 21D	6 cycles
E-Carbo-F (epirubicin, carboplatin, 5FU)	Epirubicin 50mg/ m <sup>2</sup> D1 Carboplatin AUC 5 D1 5FU 1400mg/ m <sup>2</sup> /7days D1, D8, D15 Every 21D	6 cycles
E-Carbo-X (epirubicin, carboplatin and capecitabine)	Epirubicin 50mg/ m <sup>2</sup> D1 Carboplatin AUC 5 D1 Capecitabine 625mg/ m <sup>2</sup> BD continuously	6 cycles
Paclitaxel	80mg/ m <sup>2</sup> D1, D8, D15 Every 28D	Max 6 cycles

Adenoid Cystic Carcinomas:

**Patients should be considered for clinical trials where appropriate.**

Can consider cisplatin 75mg/m<sup>2</sup> D1 and vinorelbine 25mg/m<sup>2</sup> D1 and D8, 21D cycles, for max 6 cycles.

## 5.0 SINO-NASAL AND EAR CANCERS

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This group includes cancers of the nasal cavity, maxillary or ethmoid sinuses (rarely frontal or sphenoidal sinuses), auditory canal and middle ear. Cancers of the pinna and nasal ala are considered as skin cancers (see skin cancer treatment guidelines).

### 5.1 Radical treatment

---

Surgery is the preferred initial treatment; followed by postoperative radiotherapy.

Those with disease beyond the scope of surgery or those not sufficiently fit for surgery may be considered for radical radiotherapy.

Concurrent chemoradiotherapy may be considered for those with locally advanced squamous sino-nasal cancer and a good response to induction chemotherapy.

Concurrent chemotherapy regimens use guidance in section 2.2.

## 5.2 Neo-adjuvant treatment.

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This can be considered for certain exceptional cases deemed inoperable, as part of an MDT decision. If response is seen, then patients should be considered for surgery vs radical radiotherapy +/- chemotherapy.

Chemotherapy Regimens which can be considered are:

Regimen	Doses	Duration
TP (docetaxel and cisplatin)	Docetaxel 75mg/ m <sup>2</sup> D1 Cisplatin 75mg/ m <sup>2</sup> D1 Every 21d	2- 4 cycles
T-Carbo (docetaxel and carboplatin)	Docetaxel 75mg/ m <sup>2</sup> D1 Carboplatin AUC 5 D1 Every 21D	2-4 cycles
Cisplatin + 5FU	Cisplatin 100mg/ m <sup>2</sup> D1 1000mg/ m <sup>2</sup> D1 – D4 Every 21D	Up to max 6 cycles
Carboplatin +5FU	Carboplatin AUC5 D1 1000mg/ m <sup>2</sup> D1-D4 Every 21D	Up to max 6 cycles

## 5.3 Adjuvant treatment

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Postoperative radiotherapy should be considered for those with high grade tumours or with tumour present at or close to resection margins.

Concurrent chemoradiotherapy may be considered for those with locally advanced squamous sino-nasal cancer with a good response to induction chemotherapy.

## 5.4 Palliative treatment

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Please see section 2.3.2 for the regimens which can be considered.

## 6.0 NASOPHARYNGEAL CANCER

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### 6.1 Radical Treatment

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Radiotherapy can be offered alone for T1/T2 N0M0 disease. All other stages should be considered for radiotherapy +/- chemotherapy.

See section 2.2 for concurrent chemotherapy regimens.

## 6.2 Neo-adjuvant Treatment

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Neo-adjuvant chemotherapy can be considered for selective cases.

Regimens include:

Regimen	Doses	Duration	Indication
Gemcitabine and cisplatin	Gemcitabine 1000mg/ m <sup>2</sup> D1 and D8 Cisplatin 80mg/ m <sup>2</sup> D1 Every 21D	2-4 cycles	This should be considered as 1 <sup>st</sup> line option
Carboplatin can be substituted for cisplatin; for those unlikely to tolerate large fluid loads or borderline renal function, performance status or ototoxicity. Carboplatin AUC 4 - 5			
TP (docetaxel and cisplatin)	Docetaxel 75mg/ m <sup>2</sup> D1 Cisplatin 75mg/ m <sup>2</sup> D1 Every 21D	2- 4 cycles	
T-Carbo (docetaxel and carboplatin)	Docetaxel 75mg/ m <sup>2</sup> D1 Carboplatin AUC 5 D1 Every 21D	2-4 cycles	

## 6.3 Palliative Treatment

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Please see section 2.3.2 for the regimens which can be considered.

## 7.0 Miscellaneous Treatment

Based on particular pathological diagnoses, different chemotherapy regimens can be considered.

Regimens below

	Regimen	Doses	Duration	Indication
Neuro-endocrine carcinomas or small cell variant	Carboplatin and Etoposide	Carboplatin AUC 5 D1  Etoposide 100mg/ m <sup>2</sup> D1 iv 200mg/ m <sup>2</sup> D2 and 3 orally 21D cycle	2 to 4 cycles if using as neoadjuvant  Max 6 cycles if using as palliative course	Can be used both neo-adjuvant or palliative
	Cisplatin and Etoposide	Cisplatin 75mg/ m <sup>2</sup> D1  Etoposide 100mg/ m <sup>2</sup> D1 iv 200mg/ m <sup>2</sup> D2 and 3 orally 21D cycle	2 to 4 cycles if using as neoadjuvant  Max 6 cycles if using as palliative course	Can be used both neo-adjuvant or palliative
ACE or CAV as 2 <sup>nd</sup> line regimens Consideration for clinical trials where appropriate				
Adenocarcinomas: see section 4.3 regimens, these can be used for all adenocarcinoma variants. Consideration for clinical trials where appropriate.				

Chemotherapy doses are based on the trial data which established these regimens. All chemotherapy doses should be considered in the context of the fitness and comorbidities of the patient and can be dose reduced at the clinician's discretion.

## 8.0 APPENDIX A: CLINICAL TRIALS

Refer to the local research team who will provide on request an orientation handbook, list of current trials and associated trial protocols and summaries.

### Contact numbers

<b>MTW – Clinical Trials Office</b>	01622 225 033
<b>Darent Valley Hospital – Clinical Trials Office</b>	01322 428 100 ext. 4810
<b>Medway Hospital – Clinical Trials Office</b>	01634 825 094
<b>East Kent Hospitals – Clinical Trials Office:</b>	
Solid Tumours	01227 866 393

## 9.0 PERSONNEL AND CONTACT INFORMATION

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A comprehensive, up to date list of MDM contact details can be found on the KMCC website via the following link: <http://www.KMCC.nhs.uk/resource-library/>

## 10.0 GLOSSARY

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Acronyms in common usage throughout KMCC documentation

BNF	British National Formulary
BOPA	British Oncology Pharmacist Association
CNB	Cancer Network Board
COSHH	Control of substances hazardous to health regulations.
CYP	Children & Young People (in relation to the IOG)
DCCAG	Diagnostic Cross Cutting Advisory Group
DOG	Disease Orientated Group (NSSG/TSSG/TWG)
DVH	Darent Valley Hospital
DGT	Dartford and Gravesham NHS Trust
EK	East Kent
EKHUFT	East Kent Hospitals University Foundation Trust
EPS	Electronic Prescribing System
FP10(HNC)	Prescriptions issued by hospital doctors for dispensing in the community
GP	General Practitioner
HoP	High Level Operational Policy
IOSC	Improving Outcomes: A Strategy for Cancer
IV	Intravenous
K&C	Kent & Canterbury Hospital, Canterbury, (EKHUFT)
KMCC	Kent & Medway Cancer Collaborative
KMCRN	Kent & Medway Cancer Research Network
KOMS	Kent Oncology Management System
LSESN	London & South East Sarcoma Network
MFT	Medway Foundation Trust
MTW	Maidstone & Tunbridge Wells NHS Trust
NHS	National Health Service
NMP	Non-medical prescriber
NPSA	National Patient Safety agency
NOG	Non-Surgical Oncology Group <i>(Permanent oncologist sub group of the DOGs with a specific responsibility for chemo/rad pathways and advice to the DOG, Network and GEOGRAPHICAL LOCATIONS on new drugs)</i>
PoC	Pathway of Care <i>(Network agreed disease site specific clinical guidelines)</i>
QEQM	Queen Elizabeth the Queen Mother Hospital, Margate (EKHUFT)
QoL	Quality of life
QSI	Quality service information system
QST	Quality Surveillance Team
RAT	Research and Trial Group

	<i>(Permanent sub-group of the DOGs with a specific responsibility for taking forward the clinical trials agenda)</i>
RMH	Royal Marsden Hospital
RNOH	Royal National Orthopaedic Hospital
SACT	Systemic Anti-Cancer therapy
SACT regimen	Systemic Anti-cancer prescription on the electronic prescribing system
SACT protocol	Systemic Anti-cancer protocol on KMCC website
TTO	Treatment to take home
QVH	Queen Victoria Foundation Trust Hospital East Grinstead
UCLH	University College Hospital London
WHH	William Harvey Hospital, Ashford (EKHUFT)
WK	West Kent

## 11.0 DOCUMENT ADMINISTRATION

<b>Document Title</b>	Oncological treatment of Head and Neck Cancer
<b>Principal Author</b>	K.Nathan
<b>Co-author(s)</b>	C.Waters
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<b>Revision History</b>			
Date of revision	New Version Number	Nature of Revision	Confirmation of Accuracy by
September 09	0.1	Document created	N Rowell
October 09	0.2	Minor format changes	C Waters
December 09	0.3	Paragraph added around cetuximab in palliative treatment of squamous carcinoma of the lip and oral cavity.	C Waters
April 2010	2	Changes to palliative treatment gemcitabine regimens in section 2 Changes to radical treatment regimens in section 3. (removal of carboplatin AUC 1.5 weekly and addition of carboplatin AUC 5 plus 5-fluorouracil 750mg/m <sup>2</sup> )	Head and Neck NOG
October 2010	2.1	Change to section 4.3, remove CAP	Head and Neck NOG
November 2010	3	Published	Head and Neck NOG
April 2011	3.1	Changes to section 3.1 -	Head and Neck NOG
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Jan-Oct 2012	4.1-4.5	Changes agreed at the NOG –sections 2.3, 3.1, 3.2, 4.3 & 5.2. – document not signed off	Head and Neck NOG

April 2013	4.6	Document updated in line with NCDF list and	April 2013
May 2013	5	Minor re-wording of 5.2 and 3.2	H&N NOG
April 2014	6	Published	N. Rowell
October 2016	6.1	Addition of TCarbo as an alternative to TP to section 3.2 and 5.2	
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November 2018	V8.1	Section update:3.2 addition of TCarboF Section 4.3 referral for Clinical trials and addition of ECF/ECX/ECarboF/ECarboX	H&N NOG
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May 2021	V9.1-9.4	Full review by NOG, Consultants and re formatted.	H&N NOG
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