



Brighton and Hove Clinical Commissioning Group  
 High Weald Lewes Havens Clinical Commissioning Group  
 Brighton and Sussex University Hospitals NHS Trust

**JOINT FORMULARY**  
**CHAPTER 8 - MALIGNANT DISEASE AND IMMUNOSSUPPRESSION**

[Formulary home page](#)

<a href="#">Non-Specialist Drugs</a>	<a href="#">Specialist Initiation WITHOUT Shared Care Drugs</a>	<a href="#">Specialist Initiation WITH Shared Care Drugs</a>	<a href="#">Specialist ONLY Drugs</a>
Suitable for <u>non-specialist</u> initiation.	For specialist initiation or recommendation only and specific on going monitoring (if required) but can then be prescribed by a GP <u>without</u> a shared care guideline.	For specialist initiation only and specific on going monitoring but can then be prescribed by GP <u>with</u> a shared care guideline.	For initiation and continuation (including monitoring) by a <u>specialist only</u> .
<a href="#">8.1</a>	<b>Cytotoxic Drugs</b>		
<a href="#">8.2</a>	<b>Drugs affecting the immune response</b>		
<a href="#">8.3</a>	<b>Sex hormones and hormone antagonists in malignant disease</b>		
<a href="#">8.4</a>	<b>Other NICE approved agents</b>		
Version Control			
Date of revision	Sections reviewed	Contributors	
09/11	All sections - Initial review	Dr S Glaspole	
03/12	Clinical Review	Emma Foreman	
06/17	APC review (excluding oncology)	Brighton Area Prescribing Committee	
05/18	Amendments following the publication of <a href="#">NHSE guidance on conditions for which prescriptions could potentially be restricted.</a>	APC working group	

Ctrl-f will activate the search window.

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<b>8. Malignant disease and immunosuppression (<a href="#">back to top</a>)</b>		
<a href="#">National Patient Safety Agency (NPSA) alert - Risks of incorrect dosing of oral anti-cancer medicine 2008. Letter re. Oral Chemotherapy sent to GPs from BSUH.</a>		
<b>8.1 Cytotoxic Drugs – Side effects (<a href="#">back to top</a>)</b>		
<b>Treatments for cytotoxic-induced side effects</b>		
Dexrazoxane Savene®	Intravenous infusion 500mg vial with diluent	Emergency treatment of anthracycline extravasation
Calcium Folate	Tablets 15mg Injection 3mg in 1ml, 30mg in 10ml, 350mg in 35ml	Folinic acid rescue following high-dose methotrexate.
Mesna	Tablets 400mg, 600mg Injection 100mg/1ml - 4ml and 10ml vial	Prevention and treatment of cyclophosphamide/ifosfamide induced haemorrhagic cystitis
Methylthioninium chloride (Methylene Blue)	1% injection (10ml)	Treatment of ifosfamide induced neurotoxicity
<b>8.1.1 Alkylating drugs</b>		
Bendamustine	Injection 25mg vial, 100mg vial	<a href="#">NICE TA: Chronic lymphocytic leukaemia</a> <a href="#">NICE TA: Ofatumumab in combination with chlorambucil or bendamustine for untreated chronic lymphocytic leukaemia</a> <a href="#">NICE TA: with Obinutuzumab for treating follicular lymphoma refractory to rituximab</a>
Busulfan	Tablets 2mg	
Carmustine BiCNU®	Injection, powder for reconstitution 100mg vial Implant 7.7mg	Unlicensed <a href="#">NICE TA: Carmustine implants and temozolomide for the treatment of newly diagnosed high-grade glioma</a>
Chlorambucil	Leukeran® tablets 2mg	<a href="#">NICE TA: Obinutuzumab in combination with chlorambucil for untreated chronic lymphocytic leukaemia</a> <a href="#">NICE TA: Ofatumumab in combination with chlorambucil or bendamustine for untreated chronic lymphocytic leukaemia</a>
Cyclophosphamide	Injection, powder for reconstitution 500mg vial, 1g vial Tablets 50mg	
Estramustine phosphate	Capsules 140mg	
Ifosfamide	Injection, powder for reconstitution 1g vial, 2g vial	
Lomustine CCNU®	Capsules 40mg	
Melphalan	Tablets 2mg Injection, powder for reconstitution 50mg vial	
Chlormethine hydrochloride (Mustine)	Injection, powder for reconstitution 10mg vial	Available by importation only Unlicensed
Thiotepa	Injection, powder for reconstitution 15mg vial	
Treosulfan	Capsules 250mg Injection, powder for reconstitution 1g vial, 5g vial	

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<b>8.1.2 Anthracyclines and other cytotoxic antibiotics</b>		
Bleomycin	Injection, powder for reconstitution 15000 unit vial	
Dactinomycin (Actinomycin D)	Injection, powder for reconstitution 500 microgram vial	
Daunorubicin	Injection, powder for reconstitution 20mg vial	
Doxorubicin - lipid formulation Caelyx®	Concentrate for IV infusion 20mg in 10ml vial, 50mg in 25ml vial	<a href="#">NICE TA: Recurrent ovarian cancer</a> <a href="#">NICE TA: in combination with olaratumab for treating advanced soft tissue sarcoma</a>
Epirubicin hydrochloride	Injection, powder for reconstitution 10mg Injection 10mg in 5ml vial	
<b>8.1.2 Anthracyclines and other cytotoxic antibiotics continued</b>		
Idarubicin	Capsules 5mg, 10mg, 25mg Injection, powder for reconstitution 5mg vial, 10mg vial	
Mitomycin	Injection, powder for reconstitution 2mg, 10mg, 20mg, 40mg vial	
Mitoxantrone	Concentrate for IV infusion 20mg in 10ml, 25mg in 12.5ml, 30mg in 15ml	
Streptozocin	1g vials	Unlicensed
Pixantrone	Powder for reconstitution 29mg vial	<a href="#">NICE TA: for treating multiply relapsed or refractory aggressive non-Hodgkin's B-cell lymphoma</a>
<b>8.1.3 Antimetabolites</b>		
Azacitidine	Injection 100mg vial	<a href="#">NICE TA: Myelodysplastic syndromes, chronic myelomonocytic leukaemia and acute myeloid leukaemia</a>
Capecitabine	Tablets 150mg, 500mg	<a href="#">NICE TA: Metastatic colorectal cancer</a> <a href="#">NICE TA: Adjuvant treatment of stage III (Duke's C) colon cancer</a> <a href="#">NICE TA: Advanced gastric cancer</a>
Cladribine	Injection (s/c), 2mg/ml 5ml vial Concentrate for IV infusion 1mg/ml 10ml vial	
Cytarabine DepoCyte®	Injection 100mg in 5ml, 500mg in 5ml, 1g in 10ml, 2g in 20ml Lipid formulation intrathecal injection 50mg vial	
Fludarabine phosphate	Tablets 10mg Injection, powder for reconstitution 50mg vial	<a href="#">NICE TA: First-line treatment of chronic lymphocytic leukaemia.</a>
Fluorouracil	Injection 25mg/ml	Systemic
Fluorouracil Efudix®	Cream 5%	Topical <b>GREEN</b> = <a href="#">PCDS AK guidelines</a> See chapter 13 <b>RED</b> = Cancer
Gemcitabine	Injection, powder for reconstitution 200mg vial, 1g vial	<a href="#">NICE TA: Metastatic breast cancer</a> <a href="#">NICE TA: Pancreatic cancer</a> <a href="#">NICE TA: Recurrent ovarian cancer</a> <a href="#">NICE TA: with Paclitaxel as albumin-bound nanoparticles for untreated metastatic pancreatic cancer.</a>

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<b>8.1.3 Antimetabolites</b>		
Mercaptopurine	Tablets 50mg Suspension 20mg in 1ml	AMBER= <a href="#">SCG</a> for inflammatory bowel disease and autoimmune hepatitis. <a href="#">BH CCG Drug Monitoring LCS Specification</a> . RED = Hospital only for all other indications. Suspension is not interchangeable with the tablets
UFT (Uftoral)	Capsules tegafur 100mg plus uracil 224mg	<a href="#">NICE TA: Metastatic colorectal cancer</a> (Uftoral discontinued 2013)
<p><b>Methotrexate (<a href="#">back to top</a>)</b></p> <p>In the treatment of non-cancer conditions (e.g. rheumatology and dermatology), methotrexate must be given once a week or once a month. Staff that encounter methotrexate prescriptions must ensure the correct dosing interval is given. All patients should be co-prescribed folic acid supplementation at a minimal dose of 5mg once weekly. This may help reduce the frequency of side effects. (Methotrexate-induced mucositis or myelosuppression.) Folinic acid (given as calcium folinate) is used to counteract the folate-antagonist action of methotrexate and so facilitate recovery from methotrexate-induced mucositis or myelosuppression. See Trust protocols for administration guidelines. Methotrexate appears in Chapter 10 of the current edition of the BNF for arthritis, and in Chapter 13 for psoriasis. 10mg tablets of methotrexate are to be used in oncology and in haematology for patients with malignant disease only. The prescriptions must be endorsed as such by the prescriber.</p>		
Methotrexate - Oral  Metoject®	Tablets 2.5mg, 10mg  Mixture 10mg in 5ml pre-filled syringe 7.5mg/0.15ml, 10mg/0.2ml, 15mg/0.3ml, 20mg/0.4ml, 25mg/0.5ml	2.5mg <a href="#">SCG</a> for inflammatory conditions. <a href="#">BH CCG Drug Monitoring LCS Specification</a> . 2.5mg & 10mg hospital only for oncology indications PFS - Hospital only in B&H – not approved for shared care in this area.
Pemetrexed	Injection, powder for reconstitution 500mg vial	<a href="#">NICE TA: Malignant pleural mesothelioma</a> <a href="#">NICE TA: non-small cell lung cancer</a> <a href="#">NICE TA: First-line treatment of non-small-cell lung cancer</a> <a href="#">NICE TA: Maintenance treatment of non-small-cell lung cancer</a> <a href="#">NICE TA: maintenance treatment for non-squamous non-small-cell lung cancer after pemetrexed and cisplatin</a>
Raltitrexed	Injection, powder for reconstitution 2mg	
Tioguanine	Tablets 40mg Capsules 10mg Suspension 10mg in 1ml	Unlicensed Unlicensed
<b>8.1.4 Vinca alkaloids and etoposide</b>		
Etoposide	Concentrate for IV infusion 100mg in 5ml, 500mg in 25ml Capsules 50mg, 100mg	
Vinblastine sulphate	Injection 10mg in 10ml	
Vincristine sulphate	Injection 1mg in 1ml, 2mg in 2ml	
Vindesine sulphate	Injection, powder for reconstitution 5mg vial	
Vinorelbine	Injection concentrate 10mg in 1ml, 50mg in 5ml Capsules 20mg, 30mg	
Amsacrine	Concentrate for IV infusion 75mg in 1.5ml	
Asparaginase (Medac) e.coli asparaginase	Injection 10,000 units	See also ' <a href="#">Cristantaspase</a> ' below. NB erwinia and e.coli asparaginase products are NOT equivalent.

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<b>8.1.5 Other antineoplastic drugs</b>		
Cetuximab	IV infusion 5mg/ml, 20ml vial	<a href="#">NICE TA: Locally advanced squamous cell cancer of the head and neck.</a> <a href="#">NICE TA: Recurrent and/or metastatic squamous cell cancer of the head and neck</a> <a href="#">NICE TA: First line treatment of metastatic colorectal cancer</a> <a href="#">NICE TA: for previously untreated metastatic colorectal cancer</a> <a href="#">NICE TA: for treating recurrent or metastatic squamous cell cancer of the head and neck</a>
Crisantaspase Erwinase® erwinia asparaginase	Injection, powder for reconstitution 10000 unit vial	NB erwinia and e.coli asparaginase products are NOT equivalent
Dacarbazine	Injection, powder for reconstitution 100mg, 200mg, 1g vial	
Temozolomide	Capsules 5mg, 20mg, 100mg, 140mg, 180mg, 250mg	<a href="#">NICE TA: Carmustine implants and temozolomide for the treatment of newly diagnosed high-grade glioma</a> <a href="#">NICE TA: Brain cancer - temozolomide</a>
Hydroxycarbamide	Capsules 500mg	
Pentostatin	Injection, powder for reconstitution 10mg vial	
Carboplatin	Injection 50mg in 5ml, 150mg in 15ml, 450mg in 45ml, 600mg in 60ml	
Cisplatin	Injection 10mg in 10ml, 50mg in 50ml, 100mg in 100ml	<a href="#">NICE TA: for the treatment of recurrent and stage IVB cervical cancer</a>
Oxaliplatin	Injection, powder for reconstitution 50mg vial, 100mg vial	<a href="#">NICE TA: adjuvant treatment of stage III (Dukes' C) colon cancer</a> <a href="#">NICE Colorectal cancer: The diagnosis and management of colorectal cancer</a>
Procarbazine	Capsules 50mg	
Dasatinib	Tablets 20mg, 50mg, 80mg, 100mg, 140mg	For imatinib-resistant CML <a href="#">NICE TA: for treating imatinib-resistant or intolerant chronic myeloid leukaemia</a> <a href="#">NICE TA: for untreated chronic myeloid leukaemia</a>
Erlotinib	Tablets 25mg, 100mg, 150mg	<a href="#">NICE TA: first-line treatment of locally advanced or metastatic EGFR-TK mutation-positive non-small-cell lung cancer</a> <a href="#">NICE TA: non-small-cell lung cancer that has progressed after prior chemotherapy</a>
Gefitinib	Tablets 250mg	<a href="#">NICE TA: First-line treatment of locally advanced or metastatic non-small-cell lung cancer</a> <a href="#">NICE TA: non-small-cell lung cancer that has progressed after prior chemotherapy</a>

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8.1.5 Other antineoplastic drugs continued		
Imatinib	Tablets 100mg, 400mg	<a href="#">NICE TA: Guidance on the use of imatinib for chronic myeloid leukaemia</a> <a href="#">NICE TA: for treating imatinib-resistant or intolerant chronic myeloid leukaemia</a> <a href="#">NICE TA: Leukaemia (intolerant chronic myeloid)</a> <a href="#">NICE TA: for untreated chronic myeloid leukaemia</a> <a href="#">NICE TA: unresectable and/or metastatic gastro-intestinal stromal tumours (2004)</a> <a href="#">NICE TA: unresectable and/or metastatic gastrointestinal stromal tumours (2010)</a> <a href="#">NICE TA: for the adjuvant treatment of gastrointestinal stromal tumours</a>
Nilotinib	Capsules 150mg, 200mg	<a href="#">NICE TA: for treating imatinib-resistant or intolerant chronic myeloid leukaemia</a> <a href="#">NICE TA: for treating imatinib-resistant or intolerant chronic myeloid leukaemia</a> <a href="#">NICE TA: for untreated chronic myeloid leukaemia</a>
Pazopanib	Tablets 200mg, 400mg	<a href="#">NICE TA: Metastatic renal cell carcinoma</a>
Sorafenib	Tablets 200mg	For use in patients unable to tolerate or who have contraindications to sunitinib and pazopanib. <a href="#">NICE TA: for treating advanced hepatocellular carcinoma</a> <a href="#">NICE TA: with lenvatinib for treating differentiated thyroid cancer after radioactive iodine</a>
Sunitinib	Capsules 12.5mg, 25mg, 50mg	<a href="#">NICE TA: First line advanced and/or metastatic renal cell carcinoma</a> <a href="#">NICE TA: Gastrointestinal stromal tumours</a> <a href="#">NICE TA: and everolimus for treating unresectable or metastatic neuroendocrine tumours in people with progressive disease</a>
Docetaxel	Concentrate for IV infusion 20mg in 0.5ml, 80mg in 2ml	<a href="#">NICE TA: Hormone refractory prostate cancer</a> <a href="#">NICE TA: adjuvant treatment of early node-positive breast cancer</a> <a href="#">NICE TA: with pertuzumab and trastuzumab for treating HER2-positive breast cancer</a>
Paclitaxel	Concentrate for IV infusion 30mg in 5ml, 100mg in 16.7ml, 300mg in 50ml	<a href="#">NICE TA: Guidance on the use of paclitaxel in the treatment of ovarian cancer</a> <a href="#">NICE TA: adjuvant treatment of early node-positive breast cancer</a> <a href="#">NICE TA: Recurrent ovarian cancer</a> <a href="#">NICE TA: as albumin-bound nanoparticles with gemcitabine for untreated metastatic pancreatic cancer</a>
Irinotecan	Concentrate for IV infusion 100mg in 5ml, 300mg in 15ml	
Topotecan	Capsules 250 micrograms, 1mg IV infusion, powder for reconstitution 1mg, 4mg vial	<a href="#">NICE TA: Relapsed small-cell lung cancer</a> <a href="#">NICE TA: Recurrent ovarian cancer</a> <a href="#">NICE TA: for the treatment of recurrent and stage IVB cervical cancer</a>
Trabectedin	Injection, powder for reconstitution 250 microgram vial, 1mg vial	<a href="#">NICE TA: Advanced soft tissue sarcoma</a> <a href="#">NICE TA: Recurrent ovarian cancer</a>
Trastuzumab	Injection, powder for reconstitution 150mg vial	<a href="#">NICE TA: Guidance on the use of trastuzumab for the treatment of advanced breast cancer</a> <a href="#">NICE TA: Adjuvant treatment of early-stage HER2-positive breast cancer</a> <a href="#">NICE TA: HER2-positive metastatic gastric cancer</a> <a href="#">NICE TA: with pertuzumab and docetaxel for treating HER2-positive breast cancer</a>

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8.1.5 Other antineoplastic drugs continued		
Tretinoin	Capsules 10mg	
Vemurafenib	Tablets 240mg	<a href="#">NICE TA: Locally advanced or metastatic BRAF V600 mutation-positive malignant melanoma</a>
Ipilimumab	IV infusion 5 mg/mL	<a href="#">NICE TA: for previously treated advanced (unresectable or metastatic) melanoma</a> <a href="#">NICE TA: for previously untreated advanced (unresectable or metastatic) melanoma</a> <a href="#">NICE TA: Nivolumab in combination with ipilimumab for treating advanced melanoma</a>
Bortezomib	Powder 3.5mg	<a href="#">NICE TA: for previously untreated mantle cell lymphoma</a> <a href="#">NICE TA: Monotherapy - relapsed multiple myeloma</a> <a href="#">NICE TA: With thalidomide for the first-line treatment of multiple myeloma</a> <a href="#">NICE TA: for induction therapy in multiple myeloma before high-dose chemotherapy and autologous stem cell transplantation</a>
Ruxolitinib	Tablets 5mg, 15mg, 20mg	<a href="#">NICE TA: for treating disease-related splenomegaly or symptoms in adults with myelofibrosis</a>
Trametinib	Tablets 2mg	<a href="#">NICE TA: in combination with dabrafenib for treating unresectable or metastatic melanoma</a> <a href="#">NICE TA: with dabrafenib for adjuvant treatment of resected BRAF V600 mutation-positive melanoma</a>
Dabrafenib	Tablets 75mg	<a href="#">NICE TA: for treating unresectable or metastatic BRAF V600 mutation-positive melanoma</a> <a href="#">NICE TA: in combination with trametinib for treating unresectable or metastatic melanoma</a> <a href="#">NICE TA: with trametinib for adjuvant treatment of resected BRAF V600 mutation-positive melanoma</a>
Bosutinib	Tablets 100mg, 500mg	<a href="#">NICE TA: for previously treated chronic myeloid leukaemia</a>
Bevacizumab	25mg/ml concentrate for solution for infusion	
Crizotinib	Capsules 200mg, 250mg	<a href="#">NICE TA: for untreated anaplastic lymphoma kinase-positive advanced non-small-cell lung cancer</a> <a href="#">NICE TA: for previously treated anaplastic lymphoma kinase-positive advanced non-small-cell lung cancer</a> <a href="#">NICE TA: for treating ROS1-positive advanced non-small-cell lung cancer</a>
Everolimus	Tablets 5mg, 10mg	<a href="#">NICE TA: with exemestane for treating advanced breast cancer after endocrine therapy</a> <a href="#">NICE TA: for advanced renal cell carcinoma after previous treatment</a> <a href="#">NICE TA: and sunitinib for treating unresectable or metastatic neuroendocrine tumours in people with progressive disease</a>
Eribulin	0.88mg/2 ml, 1.32mg/3 ml solution for injection vial	<a href="#">NICE TA: for treating locally advanced or metastatic breast cancer after 2 or more chemotherapy regimens</a>
Pertuzumab	420mg vial	<a href="#">NICE TA: for the neoadjuvant treatment of HER2-positive breast cancer</a> <a href="#">NICE TA: with trastuzumab and docetaxel for treating HER2-positive breast cancer</a> <a href="#">NICE TA: for adjuvant treatment of HER2-positive early stage breast cancer</a>
Ibrutinib	Capsules 140mg	<a href="#">NICE TA: for previously treated chronic lymphocytic leukaemia and untreated chronic lymphocytic leukaemia with 17p deletion or TP53 mutation</a> <a href="#">NICE TA: for treating Waldenstrom's macroglobulinaemia</a> <a href="#">NICE TA: for treating relapsed or refractory mantle cell lymphoma</a>

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8.1.5 Other antineoplastic drugs continued		
Panitumumab	20mg / ml 5ml and 20ml vial	<a href="#">NICE TA: for previously untreated metastatic colorectal cancer</a>
Afatinib	Tablets 20mg, 30mg, 40mg, 50mg	<a href="#">NICE TA: for treating epidermal growth factor receptor mutation-positive locally advanced or metastatic non-small-cell lung cancer</a>
Axitinib	Tablets 1mg, 3mg, 5mg, 7mg	<a href="#">NICE TA: for treating advanced renal cell carcinoma after failure of prior systemic treatment</a>
Idelalisib	Tablets 100mg, 150mg	<a href="#">NICE TA: for treating chronic lymphocytic leukaemia</a>
Brentuximab	Powder for reconstitution 50mg	<a href="#">NICE TA: for treating CD30-positive Hodgkin lymphoma</a> <a href="#">NICE TA: for treating relapsed or refractory systemic anaplastic large cell lymphoma</a> <a href="#">NICE TA: for treating CD30-positive cutaneous T-cell lymphoma</a>
Ponatinib	Tablets 15mg, 45mg	<a href="#">NICE TA: for treating chronic myeloid leukaemia and acute lymphoblastic leukaemia</a>
Carfilzomib	60mg vial	<a href="#">NICE TA: for previously treated multiple myeloma</a>
Trastuzumab emtansine	100mg, 160mg vial	<a href="#">NICE TA: for treating HER2-positive advanced breast cancer after trastuzumab and a taxane</a>
Ixazomib	Capsules 4mg	<a href="#">NICE TA: with lenalidomide and dexamethasone for treating relapsed or refractory multiple myeloma</a>

## 8.2 Drugs affecting the immune response ([back to top](#))

### 8.2.1 Antiproliferative immunosuppressants

#### **NB SKU PRESCRIBE ALL IMMUNOSUPPRESSANTS FOR PATIENTS UNDER THEIR CARE**

Azathioprine	Tablets 25mg, 50mg Injection 50mg vial	<a href="#">SCG approved indications. BH CCG Drug Monitoring LCS Specification.</a> Oncology only
Mycophenolate mofetil	Capsules 250mg Tablets 500mg  IV infusion, powder for reconstitution 500mg vial Suspension 1g/5ml	<a href="#">NICE TA: Immunosuppressive therapy for kidney transplantation in adults</a> <a href="#">NICE TA: Immunosuppressive therapy for kidney transplant in children and young people</a> <b>AMBER</b> = All <a href="#">SCG approved indications. BH CCG Drug Monitoring LCS Specification.</a> <b>RED</b> = all other indications Also available as a generic. <b>Prescriber must state brand name IF CellCept® is required.</b>
Mycophenolic acid Myfortic® (Mycophenolate sodium)	Tablets 180mg, 360mg	<b>AMBER</b> = for shared care when GP in agreement with shared care information supplied by the specialist <b>RED</b> = all other indications

### 8.2.2 Corticosteroids and other immunosuppressants

Ciclosporin  Sandimmun®	Capsules 10mg, 25mg, 50mg, 100mg Oral solution 100mg/1ml Concentrate for IV infusion 50mg in 1ml, 250mg in 5ml	<b>AMBER</b> = All <a href="#">SCG approved indications. BH CCG Drug Monitoring LCS Specification.</a> <b>RED</b> = all other indications <b>Prescribe by brand.</b> Hospital Only
Basiliximab	Injection, powder for reconstitution 10mg, 20mg vial	<a href="#">NICE TA: Immunosuppressive therapy for kidney transplantation in adults</a> <a href="#">NICE TA: Immunosuppressive therapy for kidney transplant in children and young people</a>
Tacrolimus Prograf® Adoport®	Capsules 500 micrograms, 1mg, 5mg  Concentrate for IV infusion 5mg in ml	<a href="#">NICE TA: Immunosuppressive therapy for kidney transplantation in adults</a> <a href="#">NICE TA: Immunosuppressive therapy for kidney transplant in children and young people</a> <b>AMBER</b> = for shared care when GP in agreement with shared care information supplied by the specialist <b>RED</b> = all other indications <b>Prescribe by brand. Not interchangeable</b> Hospital only

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<b>8.2.3 Monoclonal antibodies and immunostimulants</b>		
Alemtuzumab MabCampath®	Concentrate for IV infusion 30mg in 1ml	<a href="#">NICE TA: for treating relapsing-remitting multiple sclerosis</a>
Rituximab Truxima®	Concentrate for IV infusion 10mg in 1ml	ONCOLOGY INDICATIONS (Rheum indications see <a href="#">chapter 10</a> ) Currently <b>Truxima®</b> is the most cost effective brand. <a href="#">NICE TA: Follicular lymphoma</a> <a href="#">NICE TA: Relapsed or refractory stage III or IV follicular non-Hodgkin's lymphoma</a> <a href="#">NICE TA: First-line treatment of chronic lymphocytic leukaemia</a> <a href="#">NICE TA: Relapsed chronic lymphocytic leukaemia</a> <a href="#">NICE TA: Follicular non-Hodgkins lymphoma (maintenance treatment following response to first-line chemotherapy)</a> <a href="#">NICE TA: for treating anti-neutrophil cytoplasmic antibody-associated vasculitis</a> <a href="#">NICE TA: for treating chronic lymphocytic leukaemia in combination with rituximab</a>
Obinutuzumab	Concentrate for intravenous infusion 25mg / ml	<a href="#">NICE TA: in combination with chlorambucil for untreated chronic lymphocytic leukaemia</a> <a href="#">NICE TA: with bendamustine for treating follicular lymphoma refractory to rituximab</a> <a href="#">NICE TA: for untreated advanced follicular lymphoma</a>
Ofatumumab	Concentrate for intravenous infusion 20mg / ml	<a href="#">NICE TA: in combination with chlorambucil or bendamustine for untreated chronic lymphocytic leukaemia</a>
Blinatumomab	Powder for reconstitution 38.5-microgram vial	<a href="#">NICE TA: for previously treated Philadelphia-chromosome-negative acute lymphoblastic leukaemia</a> <a href="#">NICE TA: for treating acute lymphoblastic leukaemia in remission with minimal residual disease activity</a>
<b>8.2.4 Other immunomodulating drugs</b>		
Interferon alfa – 2a Roferon-A®	Pre-filled syringe 3 million units, 6 million units, 9 million units, 18 million units. Cartridge 18 million unit in 0.6ml	
Interferon alfa – 2b IntronA®	1.5ml cartridge 15 million units/ml, 25 million units/ml, 50 million units/ml Powder 10 million units vial	
Peginterferon – 2b	Injection 80 microgram, 100 microgram, 120 microgram, 150 microgram vials	
Interferon beta – 1a Avonex® Rebif®	Pre-filled syringe 30 microgram (6 million units), 22 microgram (6 million units), 44 microgram (12 million units)	<a href="#">NICE TA: for treating multiple sclerosis</a>
Interferon beta – 1b Extavia®	Injection 300 microgram (9.6 million unit) vial	<a href="#">NICE TA: for treating multiple sclerosis</a>
Bacillus Calmette-Guérin ImmuCyst®	Bladder instillation 81mg vial	

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<b>8.2.4 Other immunomodulating drugs continued</b>		
Glatiramer Acetate	Injection 20mg in 1ml	<a href="#">NICE TA: for treating multiple sclerosis</a>
Lenalidomide	Capsules 5mg, 10mg, 15mg, 25mg	<a href="#">NICE TA: Multiple myeloma</a> <a href="#">NICE TA: for treating myelodysplastic syndromes associated with an isolated deletion 5q cytogenetic abnormality</a> <a href="#">NICE TA: with ixazomib and dexamethasone for treating relapsed or refractory multiple myeloma</a> <a href="#">NICE TA: plus dexamethasone for multiple myeloma after 1 treatment with bortezomib</a> <a href="#">NICE TA: plus dexamethasone for previously untreated multiple myeloma</a>
Thalidomide	Capsules 50mg	<a href="#">NICE TA: Bortezomib and thalidomide for the first-line treatment of multiple myeloma</a> <a href="#">NICE TA: for induction therapy in multiple myeloma before high-dose chemotherapy and autologous stem cell transplantation</a>
Natalizumab	Concentrate for IV infusion 20mg/ml 15ml vial	<a href="#">NICE TA: Adults with highly active relapsing-remitting multiple sclerosis</a>
Mifamurtide	Intravenous infusion, powder for reconstitution, 4-mg vial	<a href="#">NICE TA: Osteosarcoma</a>
Fingolimod Gilenya®	Capsules 500 microgram	<a href="#">NICE TA : Multiple sclerosis</a>
Dimethyl fumarate	Tablets 120mg, 240mg	<a href="#">NICE TA: relapsing-remitting MS</a>
Pomalidomide	Capsules 1mg, 2mg, 3mg, 4mg	<a href="#">NICE TA: for multiple myeloma previously treated with lenalidomide and bortezomib</a>
Teriflunomide	Tablets 14mg	<a href="#">NICE TA: for treating relapsing–remitting multiple sclerosis</a>
Daclizumab	Solution for injection, 150 mg / ml pre-filled injection device	<a href="#">NICE TA: Daclizumab for treating relapsing–remitting multiple sclerosis</a>

<b>8.3 Sex hormones and hormone antagonists in malignant disease <a href="#">(back to top)</a></b>		
<b>8.3.1 Oestrogens</b>		
Diethylstilbestrol	Tablets 1mg, 5mg	
Ethinylestradiol	Tablets 10 micrograms, 50 micrograms, 1mg	
<b>8.3.2 Progestogens</b>		
Medroxyprogesterone acetate	Tablets 100mg, 200mg, 400mg	
Megestrol acetate	Tablets 160mg	
<b>8.3.3 Androgens</b> <i>NB Testosterone esters (section 6.4.2) have largely been superseded by other drugs for breast cancer.</i>		
<b>8.3.4 Hormone antagonists</b>		
<b>8.3.4.1 Breast cancer</b>		
<a href="#">NICE TA: Adjuvant treatment of early oestrogen-receptor-positive breast cancer</a> <a href="#">NICE TA: Familial breast cancer: classification, care and managing breast cancer and related risks in people with a family history of breast cancer</a>		
Anastrozole	Tablets 1mg	Approved for use in chemoprevention as per <a href="#">CG164</a>
Exemestane	Tablets 25mg	<a href="#">NICE TA: everolimus with exemestane for treating advanced breast cancer after endocrine therapy</a>
Letrozole	Tablets 2.5mg	
Tamoxifen	Tablets 10mg, 20mg, 40mg	Approved for use in chemoprevention as per <a href="#">CG164</a>

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<b>8.3.4.2 Prostate cancer and gonadorelin analogues</b>		
Given the emotive clinical indications this therapy is used to treat there is no compulsion at present to change existing patients' therapy or agreed treatment regimens. Local specialists agree that all GnRH analogues are equally effective and will continue to recommend treatment with a 'GnRH analogue' rather than a specific brand of product to be used unless clinically indicated. Specialists agree that general practitioners can change the product prescribed within this class of therapy to complete courses of therapy for existing patients as clinically appropriate and after informed discussions with the patient.		
Bicalutamide	Tablets 50mg, 150mg	
Cyproterone acetate	Tablets 50mg, 100mg	
Flutamide	Tablets 250mg	
Leuprorelin	Prostap <sup>®</sup> R DCS 3.75mg Prostap <sup>®</sup> 3 DCS 11.25mg	ONE MONTH THREE MONTHS
Triptorelin	Decapeptyl <sup>®</sup> SR 3mg Decapeptyl <sup>®</sup> SR 11.25mg Decapeptyl <sup>®</sup> SR 22.5mg	ONE MONTH THREE MONTHS SIX MONTHS
Goserelin	Zoladex <sup>®</sup> Implant 3.6mg Zoladex <sup>®</sup> Implant 10.8mg	28 DAYS 12 WEEKS
Abiraterone	Tablets 250mg	<a href="#">NICE TA: for castration-resistant metastatic prostate cancer previously treated with a docetaxel-containing regimen</a> <a href="#">NICE TA: for treating metastatic hormone-relapsed prostate cancer before chemotherapy is indicated</a>
Enzalutamide	Capsules 40mg	<a href="#">NICE TA: for metastatic hormone-relapsed prostate cancer previously treated with a docetaxel-containing regimen</a> <a href="#">NICE TA: For treating metastatic hormone-relapsed prostate cancer before chemotherapy is indicated</a>
Degarelix	Injection, powder for reconstitution, 80mg vial, 120mg vial (both with diluent)	<a href="#">NICE TA: for treating advanced hormone-dependent prostate cancer.</a>
<b>8.3.4.3 Somatostatin analogues</b>		
Octreotide	Injection 50 micrograms in 1ml, 100 micrograms in 1ml, 500 micrograms in 1ml, 1mg in 5ml Depot injection 10mg, 20mg, 30mg	<b>RED</b> = cancer, acromegaly and congenital hyperinsulinism <b>BLUE</b> = community palliative care
Lanreotide	Vial for injection 30mg Pre-filled syringe 60mg, 90mg, 120mg	<b>RED</b> = cancer, acromegaly and congenital hyperinsulinism <b>BLUE</b> = community palliative care

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<b>8.4 Other NICE approved drugs</b>		
Nintedanib	Capsules 150mg, 100mg	As per <a href="#">NICE TA 347</a>
Pembrolizumab	50mg powder vial, 25mg / 1ml solution vial	As per <a href="#">NICE TA 357</a> , <a href="#">NICE TA 366</a> , <a href="#">NICE TA 428</a> , <a href="#">NICE TA 447</a> , <a href="#">NICE TA 519</a> , <a href="#">NICE TA 522</a> , <a href="#">NICE TA 531</a> , <a href="#">NICE TA 540</a> , <a href="#">NICE TA 553</a> , <a href="#">NICE TA 557</a> and <a href="#">NICE TA 600</a>
Olaparib	Capsules 50mg	As per <a href="#">NICE TA 381</a> and <a href="#">NICE TA 598</a>
Radium-223 dichloride	Solution for injection 1000 kBq/mL	As per <a href="#">NICE TA 412</a> (NHS England commissioned)
Panobinostat	Capsules 10mg, 15mg, 20mg	As per <a href="#">NICE TA 380</a>
Nivolumab	40mg, 100mg vial	As per <a href="#">NICE TA 384</a> , <a href="#">NICE TA 400</a> , <a href="#">NICE TA 417</a> , <a href="#">NICE TA 462</a> , <a href="#">NICE TA 483</a> , <a href="#">NICE TA 484</a> , <a href="#">NICE TA 490</a> , <a href="#">NICE TA 558</a> , <a href="#">NICE TA 581</a> , (NHS England commissioned)
Cabazitaxel	60mg vial	As per <a href="#">NICE TA 391</a> (NHS England commissioned)
Ceritinib	Capsules 150mg	As per <a href="#">NICE TA 395</a> , <a href="#">NICE TA 500</a> (NHS England commissioned)
Trametinib	Tablets 500 micrograms, 2mg	As per <a href="#">NICE TA 396</a> (NHS England commissioned)
Ramucirumab	100mg, 500mg vial	As per <a href="#">NICE TA 403</a> (NHS England commissioned)
Trifluridine–tipiracil	Tablets 15mg, 20mg	As per <a href="#">NICE TA 405</a> (NHS England commissioned)
Pegaspargase	750u/ml solution for injection/infusion	As per <a href="#">NICE TA 408</a> (NHS England commissioned)
Talimogene laherparepvec	10 <sup>6</sup> plaque forming units (PFU)/mL solution for injection 10 <sup>8</sup> plaque forming units (PFU)/mL solution for injection	As per <a href="#">NICE TA 410</a> (NHS England commissioned)
Osimertinib	Tablets 40mg, 80mg	As per <a href="#">NICE TA 416</a> (NHS England commissioned - CDF)
Cabozantinib	Tablets 20mg, 40mg, 60mg	As per <a href="#">NICE TA 463</a> , <a href="#">NICE TA 516</a> and <a href="#">NICE TA 542</a> (NHS England commissioned)
Olaratumab	190mg /19ml, 500mg /50ml vial	As per <a href="#">NICE TA 465</a> (NHS England commissioned)
Venetoclax	Tablets 10mg, 50mg, 100mg	As per <a href="#">NICE TA 487</a> , <a href="#">NICE TA 561</a> (NHS England commissioned)
Regorafenib	Tablets 40mg	As per <a href="#">NICE TA 488</a> and <a href="#">NICE TA 555</a> (NHS England commissioned)
Palbociclib	Capsules 125mg	As per <a href="#">NICE TA 495</a> (NHS England commissioned)
Ribociclib	Tablets 200mg	As per <a href="#">NICE TA 496</a> and <a href="#">NICE TA 593</a> (NHS England commissioned)
Atezolizumab	1200mg / 20ml vial	As per <a href="#">NICE TA 492</a> , <a href="#">NICE TA 520</a> , <a href="#">NICE TA 525</a> and <a href="#">NICE TA 584</a> (NHS England commissioned)
Cladribine	Tablets 10mg	As per <a href="#">NICE TA 493</a> (NHS England commissioned)
Lenvatinib	Capsules 4mg, 10mg	As per <a href="#">NICE TA 498</a> , <a href="#">NICE TA 535</a> and <a href="#">NICE TA 551</a> (NHS England commissioned)
Daratumumab	100mg, 400mg vial	As per <a href="#">NICE TA 510</a> and <a href="#">NICE TA 573</a> (NHS England commissioned)
Brodalumab	210mg / 1.5ml pre-filled syringes	As per <a href="#">NICE TA 511</a> (CCG commissioned)
Tivozanib	Capsules 1,340mcg	As per <a href="#">NICE TA 512</a> (NHS England commissioned)
Avelumab	200mg/10ml vial	As per <a href="#">NICE TA 517</a> (NHS England commissioned)

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<b>8.4 Other NICE approved drugs continued</b>		
Strimvelis	Ex vivo gene therapy treatment	As per <a href="#">NICE HST7</a> (NHS England commissioned)
Midostaurin	Capsules 25mg	As per <a href="#">NICE TA 523</a> (NHS England commissioned)
Arsenic trioxide	10 mg/10 ml concentrate for solution for infusion ampoules	As per <a href="#">NICE TA 526</a> (NHS England commissioned)
Niraparib	Capsules 100mg	As per <a href="#">NICE TA 528</a> (NHS England commissioned)
Ocrelizumab	Vial 300mg	As per <a href="#">NICE TA 533</a> and <a href="#">NICE TA 585</a> (NHS England commissioned)
Alectinib	Capsules 150 mg	As per <a href="#">NICE TA 536</a> (NHS England commissioned)
Dinutuximab beta	Vial	As per <a href="#">NICE TA 538</a> (NHS England commissioned)
Lutetium (177Lu) oxodotreotide	IV infusion	As per <a href="#">NICE TA 539</a> (NHS England commissioned)
Inotuzumab ozogamicin	1g vial	As per <a href="#">NICE TA 541</a> (NHS England commissioned)
Burosumab	10mg vial	As per <a href="#">NICE HST8</a> (NHS England commissioned)
Gemtuzumab ozogamicin	5mg vial	As per <a href="#">NICE TA 545</a> (NHS England commissioned)
Liposomal cytarabine–daunorubicin	44mg/100mg powder for concentrate for solution for infusion vials	As per <a href="#">NICE TA 552</a> (NHS England commissioned)
Tisagenlecleucel	Infusion	As per <a href="#">NICE TA 554</a> and <a href="#">NICE TA 567</a> (NHS England commissioned)
Axicabtagene ciloleucel	Infusion	As per <a href="#">NICE TA 559</a> (NHS England commissioned)
Encorafenib	Capsules 75mg	As per <a href="#">NICE TA 562</a> (NHS England commissioned)
Binimetinib	Tablets 15mg	As per <a href="#">NICE TA 562</a> (NHS England commissioned)
Abemaciclib	Tablets 150mg	As per <a href="#">NICE TA 563</a> , <a href="#">NICE TA 579</a> (NHS England commissioned)
Brigatinib	Tablets 30mg, 90mg, 180mg	As per <a href="#">NICE TA 571</a> (NHS England commissioned)
Durvalumab	Vials 120mg/2.4ml, 500mg/10ml	As per <a href="#">NICE TA 578</a> (NHS England commissioned)
Cemiplimab	Vials 350mg	As per <a href="#">NICE TA 592</a> (NHS England commissioned)
Dacomitinib	Capsules 15mg, 30mg, 45mg	As per <a href="#">NICE TA 595</a> (NHS England commissioned)

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