ABVD

Indications: Hodgkin's lymphoma

Prior to a course of treatment

- Assess cardiac function by history, exam, ECG and CXR. If there is evidence of cardiac disease
 or risk factors, prior anthracycline therapy or patient >70 years perform a MUGA scan. If LVEF
 <50% discuss with consultant
- Check U&Es, creatinine, LFTs see dose modification
- Check virology: Hb_sAg, anti-HBc, anti-hepatitis C and HIV antibody. Inform consultant if positive
- Check FBC. Patient must have adequate bone marrow reserve i.e neuts >1.0, platelets >100 unless cytopaenia is due to disease e.g marrow infiltration, splenomegaly
- Blood and platelet transfusions must be irradiated indefinitely inform Transfusion Lab
- If appropriate discuss the possibility of pregnancy with female patients and need for contraception with both male and female patients. Note ABVD has not been associated with infertility but offer semen cryopreservation to male patients and referral to discuss measures to preserve fertility to female patients

Prior to each cycle

- Medical review of fitness for treatment exclude infection, major changes in organ function
- Check FBC, U&Es, creatinine, LFTs platelets must be > 75 see dose modifications
- Note importance of maintaining dose intensity hence give day 1,15 irrespective of the neut count
- If there has been neutropenic sepsis consider GCSF or dose reduction discuss with consultant

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Dacarbazine	375mg/m ² in 0.5L N saline	IV over 2hrs	days 1 and 15	
Vinblastine	6mg/m ² in 50ml N saline	IV over 5 mins	days 1 and 15	
Bleomycin	10000U/m ²	IV bolus	days 1 and 15	
Doxorubicin	25mg/m ²	IV bolus	days 1 and 15	

Repeat cycle every 28 days for up to 6 cycles

Premedication Chlorpheniramine 10mg IV

Prophylaxis for acute emesis 5HT antagonist and dexamethasone

Prophylaxis for delayed emesis 5HT antagonist and dexamethasone for 3-4 days

Other medications Allopurinol 300mg od for cycle 1

Cotrimoxazole 480mg od throughout treatment plus 2 weeks Acyclovir 400mg bd throughout treatment plus 2 weeks

Dose modifications for thrombocytopaenia (unless due to lymphoma)

Platelets < 75 on day 1
 Delay cycle 1-2 weeks – if no recovery consider proceeding at 50-75% dose doxorubicin and

vinblastine, or give platelet transfusion support –

discuss with consultant

Dose modification for liver dysfunction (unless due to lymphoma)

Bilirubin <1.5 x ULN
 Bilirubin 1.5 – 3.0 X ULN
 Bilirubin > 3 x ULN
 Bilirubin > 3 x ULN

For severe liver dysfunction consider replacing doxorubicin with cyclophosphamide 375mg/m²

Dacarbazine is activated and metabolized in the liver and can be hepatotoxic – *consider dose reduction* in severe liver dysfunction

Dose modification for renal dysfunction

Doxorubicin and vinblastine
 No dose reduction required

Bleomycin
 Cr Cl >50ml/min - 100% dose

Cr Cl 10-50ml/min - 75% dose

Cr Cl <10ml/min – 50%

Dacarbazine
 Cr Cl <60ml/min – consider 75% dose

Dose modification for cardiotoxicity

- If symptoms or signs of cardiac failure develop the LVEF must be rechecked by MUGA scan or echocardiogram *inform the consultant*.
- If impaired cardiac function is demonstrated consider replacing doxorubicin with etoposide 25mg/m² IV in 0.5L N saline over 1 hr on days 1 and 15 and 50mg/m² PO (50mg and 100mg tablets) on days 2, 3, 16 and 17

Dose modification for vinblastine neurotoxicity

- If grade 2 motor (mild objective weakness interfering with function but no activities of daily living) or grade 3 sensory neuropathy (sensory loss or paraesthesiae interfering with activities of daily living) appears, reduce dose to 3mg/m²
- If toxicity increases despite dose reduction, stop vinblastine

For bleomycin pulmonary toxicity

 Consider this possibility if there is persistent unexplained dyspnea or non-productive cough – stop bleomycin, perform CXR and discuss with consultant. Consider PFTs and transfer factor. If there is clinical and radiological evidence of pneumonitis or transfer factor reduced to <50%, bleomycin should be permanently stopped.

For bleomycin skin toxicity

• Skin toxicity (particularly affecting the hands and feet) is common. Only stop bleomycin if severe.

Haematology Chemotherapy Protocols – Blackpool Teaching Hospitals

ABVD toxicities		
General	nausea, vomiting, neutropenic sepsis, thrombocytopaenia, mucositis, amenorrhoea and infertility (usually reversible but offer semen cryopreservation), late second malignancies	
Bleomycin	fever, rigors, chills, cough, anaphylaxis, breathlessness/pneumonitis, late pulmonary fibrosis, photosensitivity, mucocutaneous and cutaneous toxicity, hyperpigmentation	
Vinblastine	Peripheral sensory neuropathy, autonomic neuropathy, constipation, ileus, seizures, jaw pain	
Doxorubicin	Cardiac arrythmias, cardiomyopathy	
Dacarbazine	Flu-like symptoms, pain on infusion (consider dilution or giving via PICC line), liver dysfunction	

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