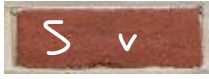


- 1 Review 'blocks'
- 2 Joining with conjunctions
- 3 Joining with prepositions

What are the 'building blocks' of Writing?



1 Mr Smith / clinic

Mr Smith visited the clinic

S v

2 Mrs Richards / advice

Mrs Richards was advised

S v v

3 Mr Smith / prescribe +

Mr Smith was prescribed

S v v

2 WAY COMBINING BLOCKS

Mr Smith visited the clinic, and he had not improved

Go to chat box and write 3 sentences:

1 Mr Green / admitted → Mr Green / treated
Mr Green was admitted, and he was treated

2 Mrs Smith / report pain → no pain killers / prescribe
Mr Smith reported pain, but painkillers were not prescribed

3 Mr Richards / poor health → Mr Richards / no exercise
Mr Richards has poor health, however, does exercise regularly

Conjunctions

Normal (co-ordinating)	Subordinating
Because	Although
And	If
Yet	While
But	When
Or	
, therefore,	
, however,	
Cannot put them at start	Can go at start or middle

Exceptions

- Pronoun
- Ellipsis: removing Subject
- However + Therefore need 2 commas

Rule: 1. Delete subject 2. Change verb ING

Mr Smith was admitted (,) due to Mr Smith had = having a health issues

1. Mr Green / high BP Mr Green / overweight
Mr Green had high BP, **due to** he was overweight

2. Mr Smith / no improve preposition Mr Smith take medication
Mr Smith did not improve in spite of taking his medication

3. Mrs Hope / improve diet preposition Mrs Hope improve exercise
Mrs Hope has improved her diet, as well as improving exercise.

Prepositions

With	Due to = because
On	
At	
In	In spite of = although
For	
To	As well as = and
about	
Despite	
Before	
After	
Etc.	

Exceptions:




- before / after = we CAN use S+v

Mrs Hope improved her diet before she went to the doctor

--	--



Conjunctions	Not a conjunction
<p>And But Also However Although Because</p> <p>ONE SENTENCE: 2 clause</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; background-color: #8B4513; padding: 2px; margin: 2px;">S ✓</div> <div style="border: 1px solid black; background-color: #8B4513; padding: 2px; margin: 2px;">S ✓</div> </div> <p>1. Mr Green is stable, and his wound is healing well</p>	<p>Additionally As well as Due to</p>

CONTEXT	FORM	MEANING
1. Fibromyalgia can be a painful and debilitating disease. It really impacts on day-to-day life so that and you become dependent on others for help.	Gerund (adj.)	1. Makes you weaker / reduces ability
2. There was a rapid escalation in the symptoms	Noun	1. <i>Increase</i> / make higher / make more
3. She initially described her complaint as minor and erratic – so it was hard to pin it down	Adjective Idiom	1. Irregular / changing all the time To force someone/something to stop changing: 'pin it down'   = he pinned him down
4. Her symptoms seemed to correspond with a decrease in temperature in the winter	Verb	1. Related to / connected to 2. Correlated 3. Mirror – same on both sides Common error: 1. Its <u>mean</u> = I have this for years! 2. <u>It</u> means ✓
5. Because the condition isn't visible, there is an assumption that you are exaggerating the severity of the pain	Noun	1. When you make a belief without checking first You ASSUME it is true usually because it was like that previously Synonym: presume
6. Because the condition isn't visible, there is an assumption that you are exaggerating the severity of the pain	Gerund (verb)	1. More than real Making it more than it really is Synonym: <i>overstate</i>
7. It's hard to bear when you're already struggling Bear here = carry 	Idiom Phrase	1. Difficult to cope/tolerate/manage
8. She was put onto a therapeutic treatment – did she supplement this with drug treatments?	Verb (can be noun)	1. <u>Add</u> extra things to it... I am <i>supplementing</i> my English study by working in a restaurant speaking English Noun: extra thing / additional
9. No, she turned down a number of medications we offered	Phrasal verb	1. Reject Often used for romantic relationship: He proposed marriage but she <i>turned him down</i>
10. She had clearly done her homework on the different pharmacological therapies available	Idiom	1. Do the research 2. Study the information

<p>11. Another drug we offered was known to produce some mild <input type="text"/> reactions</p>	<p>Adj.</p>	<p>1. Negative / bad</p> <p>Adverse = harmful, not favourable, preventing success</p> <p>Averse = strong dislike or opposition to</p> <p>I am really adverse to this – Im not going to do it.</p>
<p>12. There is always the possibility of <input type="text"/> on any prescribed drugs</p>	<p>Noun</p>	<p>1. Too much reliance on</p> <p>2. Addiction</p>
<p>13. She was also encouraged to keep a food diary and <input type="text"/> her symptoms</p>	<p>Verb</p>	<p>1. Register</p>
<p>14. They are under absolutely no <input type="text"/> that this is the end to their symptoms although it has at least alleviated their pain</p>	<p>Noun</p>	<p>1. No false beliefs</p>

Listening Part A:

1 Format

2 Practice the skill listening for details

3 Mock test

FORMAT:

Part A:
Total 24 Questions

You need:

Minimum 21 / 22

Situation:

Consultation (GP /
Specialist)

Gap Fill
Question Style

END:
2 mins to check (paper) - end of Part C
1 min to check (computer) - end of Part A

Extract 1: Questions 1-2

PPP LSAMPLE08

You hear a neurologist talking to a patient called Danuta Parker. For **questions 1 to 12**, complete the notes with a word or short phrase.
You now have thirty seconds to look at the notes.

Patient: Danuta Parker
Condition: Meniere's Disease

Audio paraphrases the notes

First signs of the condition – 5 years ago

- had problems with right ear: felt like fluid was moving inside her head together with constant (1) _____ noise (loud)
- also had problems with balance and nausea
- GP initially suggested the problem was related to (2) _____
- following tests, GP diagnosed (3) _____ (decongestant prescribed)

6 months later

- hearing problems – normal voices sounded (4) _____
- attacks with tinnitus, vertigo and nausea (describes these as (5) _____)
- attacks of variable duration – up to (6) _____
- diagnosed with Meniere's disease

Managing the condition

- takes betahistine
- follows a healthy diet with low (7) _____ intake
- increased fluid intake - has given up drinks containing (8) _____
- keeps physically fit
- follows programme of (9) _____ exercises
- has left her job as an (10) _____ in order to avoid stress
- suffers attacks (11) _____ a month on average

Recent attacks

- has experienced sudden (12) _____ (standing and walking)
- feels the ground tilting - no loss of consciousness

98% of answers from patient

30 seconds before audio starts

2 audio clips

12 questions per audio

Time is about 5 mins
for clip

Listening for detail

Now **Skills** Practice:



The activity that you need to be good

When do we listen for details?

Note taking

Context: consultation and the woman is having emotional problems / depression

Write notes:

Mrs Doors

Dr David

Sorry if wasting your time

Not sleeping well / exhausted

Asked for sleeping tablets

DR: "It would really help me if I could ask...." = very natural

Okay

Longer:

- Started: a year ago
- Not coping
- Tired all the time
- Kids & job
- Can't sleep

Sleeping?

- I lie awake at night
- Don't know how long – goes on and on
- Feel **dreadful**

Appetite?

- Kids dinner
- Can't be **bothered** = natural language meaning – I don't care

Do you feel like you have lost your 'get up and go'

Repeated 'energy levels'

- Used to enjoy **swimming** with kids

https://www.youtube.com/watch?v=Cg4BbnkBavQ&list=PLpRE0Zu_k-By_X4INa4WwYFC2MTbkDHok

Transcript:

How can I help you today?

I'm sorry I might be wasting your time a bit but I've come because can't I'm not sleeping very well and just exhausted and I just wanted if you could give me something anything to help me sleep some sleeping tablets

okay it'd really helped me if I could ask a few more questions about how you feeling yeah maybe symptoms and then we can sort of see how can help you would that be okay yes I think yes so what any time of it more about what's brought you here today

um about year ago and her husband was split up and since I just not being coping very much I'm just tired all the time and Kids job and just in very well I can't see okay what are we just look at one of those things at a time

tell me a bit more about see having trouble sleeping?

so I always had no height I don't know what time it is but it seems to go on and on and on the night and must have got sleep in the morning I just feel so dreadful okay I'm problems

with your appetite yeah I think the kids to dinner I just what about life and in general lost
he get up and go sorry I don't understand you get up and get your energy levels and yeah
finished enjoy the kids and stuff but I just want to be on my own I just can't just not in a
very good at the moment as well I just so exhausted really just going back to your sleep
can you tell me a bit more about that how much sleep you getting each night so just a
lightweight and think about hip and her together things that we used to do I just wake
pigs hosted

- M: Now, Mrs Parker, I understand from your notes that you have Meniere's disease. But perhaps you could tell me, in your own words, when this all started, what treatment you've had, and anything else you think I should be aware of.
- F: Sure. Well, it all started about five years ago – a few weeks after my daughter was born. I realised there was something wrong with my right ear. I couldn't hear as well as normal and it felt like I had fluid sloshing around inside my head. Then I realised I could hear this sort of humming, which didn't stop. It was particularly loud, but I was also having moments when my head was spinning and I was completely off-balance. That made me feel, you know, very sick. The first time I told my GP about it, he thought it might have something to do with hormones, because I'd just had a baby. But the dizziness and sickness actually got worse, so then he did a few tests and told me I had glue ear. He gave me some medication – I think it was called Benadryl.
- M: That's a decongestant.
- F: Yeah, and it seemed to work for a while. But then six months later, things began to go wrong again. I got worried about my hearing because I was having to strain to catch what people were saying. Everything seemed muffled, unless they were talking loudly. And then suddenly the tinnitus came back, and with it I was getting fits of dizziness and nausea. When it came on, the only thing I could do was lie down. The best word for it is incapacitating. That's what it felt like.
- M: How long did these attacks last?
- F: They varied. Some were quite brief – maybe half an hour – but the worst ones went on for four or five hours. It got so bad that eventually I was referred to an ENT specialist who diagnosed me with the Meniere's disease. It was explained to me that there's an abnormal build-up of fluid in the inner ear and this affects the organs which regulate hearing and balance. But no-one really knows what the underlying cause is and there's no cure. Is that right?
- M: Pretty much, yes. And it's tricky to diagnose, because many of the symptoms are also characteristic of other conditions. But it can be managed. Have you been given medication to take?
- F: Yes, betahistine. It's for when I have attacks. It probably helps with the dizziness, but I still feel very nauseous and I don't like the idea of taking it long-term. I was advised to eat lots of vegetables and fruit, and to cut right down on the amount of salt I eat. I was also told it's best not to drink anything alcoholic – that wasn't an issue for me because I never had, but I've been drinking plenty of water and I feel that has made a difference. Also I decided to avoid having anything with caffeine in it and I do think that's been beneficial. I try to stay active – I go to the gym three times a week when I'm feeling normal. I'm also disciplined about doing the exercises that a therapist I went to see gave me – you know, the vestibular ones – that help improve my balance.
- M: That all sounds good. Do you work?
- F: I'm a trained accountant and I did that sort of work for several years until things got too much for me, what with having two young children and the Meniere's. I'm convinced that stress triggers attacks.
- M: How often do you get them?
- F: It's quite unpredictable. I might get five in a month and then maybe one in the next six months, but overall it works out at about twice a month. Though things have changed again recently. I generally feel quite confident that I can deal with the Meniere's but, in the last few weeks, I've been getting something new. Without any warning, I have falls – when I'm standing or walking, I just hit the ground. I don't faint but I can't control it. It feels like the ground is tilting and there's nothing I can do. It's frightening.
- M: I can imagine. OK, thank you for all that background – that's really useful. From what you've told me I can see that we need to do some tests [fade]

OET Reading Part A:

1. What is Scanning? + Practice
2. What is Skimming? + Practice
3. **Putting it together: Technique**

What is *scanning*?

Read for details / finding a detail

Example:



Scan for specific **name / address**



When we search for an app

OET Reading Text:

GAME: tell me the word before the word I say

Text A

Paediatric nasogastric tube use

Nasogastric is the most common route for enteral feeding. It is particularly useful in the short term, and when it is necessary to avoid a surgical procedure to insert a gastrostomy device. However, in the long term, gastrostomy feeding may be more suitable.

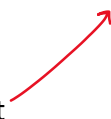
Issues associated with paediatric nasogastric tube feeding include:

- The procedure for inserting the tube is traumatic for the majority of children.
- The tube is very noticeable.
- Patients are likely to pull out the tube making regular re-insertion necessary.
- Aspiration, if the tube is incorrectly placed.
- Increased risk of gastro-esophageal reflux with prolonged use.
- Damage to the skin on the face.

- Read in an S shape
- Repeat the word in your head...
- Max 20 seconds to find a word

In OET we scan for the **key** word...

Important



Text B

Inserting the nasogastric tube

All tubes must be radio opaque throughout their length and have externally visible markings.

1. Wide bore:

- for short-term use only.
- should be changed every seven days.
- range of sizes for paediatric use is 6 Fr to 10 Fr.

2. Fine bore:

- for long-term use.
- should be changed every 30 days.

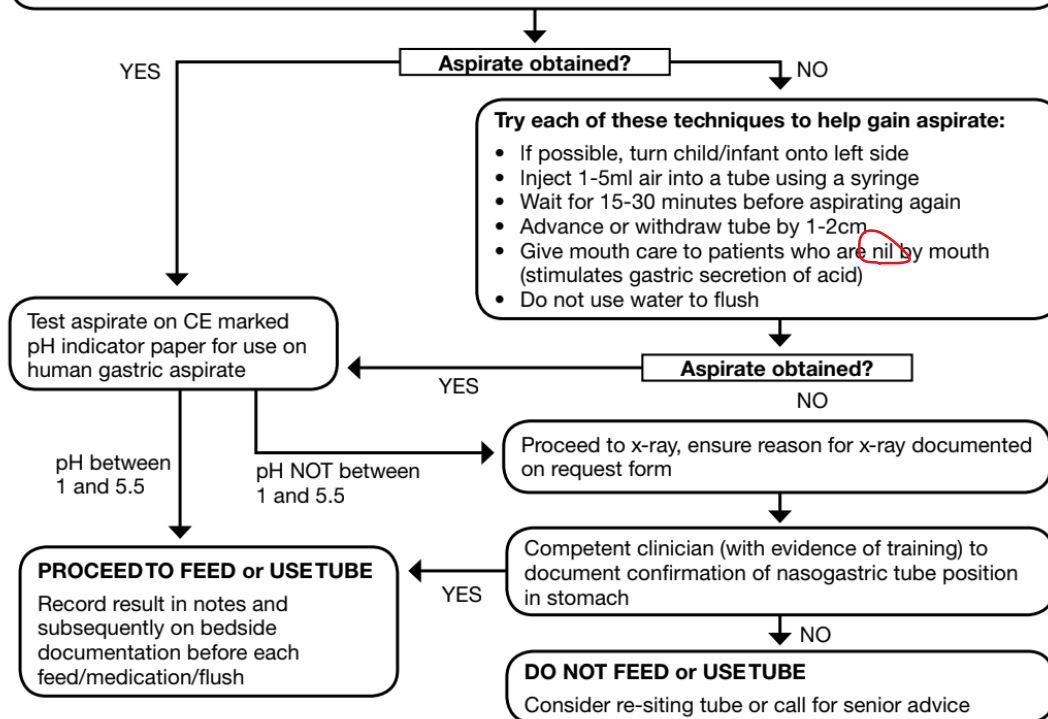
In general, tube sizes of 6 Fr are used for standard feeds, and 7-10 Fr for higher density and fibre feeds. Tubes come in a range of lengths, usually 55cm, 75cm or 85cm.

Wash and dry hands thoroughly. Place all the equipment needed on a clean tray.

- Find the most appropriate position for the child, depending on age and/or ability to co-operate. Older children may be able to sit upright with head support. Younger children may sit on a parent's lap. Infants may be wrapped in a sheet or blanket.
- Check the tube is intact then stretch it to remove any shape retained from being packaged.
- Measure from the tip of the nose to the bottom of the ear lobe, then from the ear lobe to xiphisternum. The length of tube can be marked with indelible pen or a note taken of the measurement marks on the tube (for neonates: measure from the nose to ear and then to the halfway point between xiphisternum and umbilicus).
- Lubricate the end of the tube using a water-based lubricant.
- Gently pass the tube into the child's nostril, advancing it along the floor of the nasopharynx to the oropharynx. Ask the child to swallow a little water, or offer a younger child their soother, to assist passage of the tube down the oesophagus. Never advance the tube against resistance.
- If the child shows signs of breathlessness or severe coughing, remove the tube immediately.
- Lightly secure the tube with tape until the position has been checked.

Text C

- Estimate NEX measurement (Place exit port of tube at tiao of nose. Extend tube to earlobe, and then to xiphistemum)
- Insert fully radio-opaque nasogastric tube for feeding (follow manufacturer's instructions for insertion)
- Confirm and document secured NEX measurement
- Aspirate with a syringe using gentle suction



A pH of between 1 and 5.5 is reliable confirmation that the tube is not in the lung, however, it does not confirm gastric placement. If this is any concern, the patient should proceed to x-ray in order to confirm tube position. Where pH readings fall between 5 and 6 it is recommended that a second competent person checks the reading or retests.

Text D

Administering feeds/fluid via a feeding tube

Feeds are ordered through a referral to the dietitian.

When feeding directly into the small bowel, feeds must be delivered continuously via a feeding pump. The small bowel cannot hold large volumes of feed.

Feed bottles must be changed every six hours, or every four hours for expressed breast milk.

Under no circumstances should the feed be decanted from the container in which it is sent up from the special feeds unit.

All feeds should be monitored and recorded hourly using a fluid balance chart.

If oral feeding is appropriate, this must also be recorded.

The child should be measured and weighed before feeding commences and then twice weekly.

The use of this feeding method should be re-assessed, evaluated and recorded daily.

Scanning is like a muscle... GYM

What is skimming? (not scanning)

Reading for main ideas / function

In OET we usually see the same MAIN IDEAS or FUNCTION...

Main idea	Function
Answers question: what is it about?	Answers question: What is it DOING?
Treatment	Classification (Types)
Symptoms	Information
Management	Description
Risks	Definition
Investigations	Instructions
Advice	Guidelines
Procedures	
Medication	

4 KEY WAYS TO SKIM:

TITLE	FIRST LINE	REPEAT	THEMATIC									
<p>Text B</p> <p>Tetanus Risk</p> <p>Tetanus is a disease induced by the toxin tetanus bacilli, the spores of which are present in soil.</p> <p>A TETANUS PRONE WOUND IS:</p> <ul style="list-style-type: none"> any wound or burn that requires surgical intervention that is delayed for > 6 hours any wound or burn at any interval after injury that shows one or more of the following characteristics: <ul style="list-style-type: none"> a significant degree of tissue damage contaminated wound particularly where there has been contact with soil or organic matter which is likely to harbour tetanus organisms any wound from compound fractures any wound containing foreign bodies any wound or burn in patients who have systemic sepsis any laceration any wound from both re-implantation <p>Immunosuppressed patients may not be adequately protected against tetanus, despite having been fully immunised. They should be managed as if they were completely immunised.</p>	<p>Text C</p> <p>Postric neuralgia (PNA) is an inflammatory disease associated with psoriasis. It is unclear exactly how many patients with psoriasis develop PNA, but it could be as high as 42%. PNA may develop at any time, but usually presents between 30-50 years of age. PNA is characterised by pain and stiffness in affected joints. If left untreated, PNA may result in progressive joint damage leading to severe disability. Therefore, early detection and treatment are important. On physical examination, affected joints may have asymmetric, acute pain, joint tenderness and swelling, with approximately 50% of cases affecting the distal interphalangeal (DIP) joints.</p> <p>CASPAR (Classification Criteria for Psoriatic Arthritis) Criteria</p> <p>A patient must have inflammatory articular disease and ≥3 points from the following categories</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Description</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>Current psoriasis or personal or family history of psoriasis</td> <td>Current psoriasis, skin or nail disease confirmed by rheumatologist or dermatologist OR Personal history obtained from family physician, dermatologist, rheumatologist or other qualified health care provider</td> <td>2 (current) OR 1 (history)</td> </tr> <tr> <td>Psoriatic nail dystrophy on current examination</td> <td>Onycholysis, pitting, hyperkeratosis</td> <td>1</td> </tr> </tbody> </table>	Category	Description	Points	Current psoriasis or personal or family history of psoriasis	Current psoriasis, skin or nail disease confirmed by rheumatologist or dermatologist OR Personal history obtained from family physician, dermatologist, rheumatologist or other qualified health care provider	2 (current) OR 1 (history)	Psoriatic nail dystrophy on current examination	Onycholysis, pitting, hyperkeratosis	1	<p>Text D</p> <p>Administering feeds/fluid via a feeding tube feeds, are ordered through a referral to the dietitian.</p> <p>When feeding directly into the small bowel, feeds must be delivered continuously via a feeding pump. The small bowel cannot hold large volumes of feed.</p> <p>Feed bottles must be changed every six hours, or every four hours for expressed breast milk.</p> <p>Under no circumstances should the feed be decanted from the container in which it is sent up from the special feeds unit.</p> <p>All feeds should be monitored and recorded hourly using a fluid balance chart.</p> <p>If oral feeding is appropriate, this must also be recorded.</p> <p>The child should be measured and weighed before feeding commences and then twice weekly.</p> <p>The use of this feeding method should be re-assessed, evaluated and recorded daily.</p>	<ul style="list-style-type: none"> Painful muscle contractions that begin in the jaw (lock jaw) Rigidity in neck, shoulder and back muscles Difficulty swallowing Violent generalized muscle spasms Convulsions Breathing difficulties <p>Words in same group</p>
Category	Description	Points										
Current psoriasis or personal or family history of psoriasis	Current psoriasis, skin or nail disease confirmed by rheumatologist or dermatologist OR Personal history obtained from family physician, dermatologist, rheumatologist or other qualified health care provider	2 (current) OR 1 (history)										
Psoriatic nail dystrophy on current examination	Onycholysis, pitting, hyperkeratosis	1										

Is this clear?

All texts: psoriasis

Text A

PPP Reading09

Diagnosis of cutaneous psoriasis is usually straightforward based on the clinical appearance. The most frequent presentation is chronic plaque psoriasis (psoriasis vulgaris) and is characterised by well demarcated bright red plaques covered by adherent silvery white scales. These may affect any body site, often symmetrically, especially the scalp and extensor surfaces of limbs. The differential diagnosis includes eczema, tinea, lichen planus and lupus erythematosus. The appearance of the plaques may be modified by emollients and topical treatments, which readily remove the scale. Scaling is reduced at flexural sites, on genital skin and in palmoplantar disease. Guttate psoriasis describes the rapid development of multiple small papules of psoriasis over wide areas of the body. The differential diagnosis includes pityriasis rosea, viral exanthems and drug eruptions. Generalised pustular psoriasis is rare and is characterised by the development of multiple sterile non-follicular pustules within plaques of psoriasis or on red tender skin. This may occur acutely and be associated with fever. The differential diagnosis includes pyogenic infection, vasculitis and drug eruptions.

All texts: Malaria

Text A

PPP KSAMPLE 1

Malaria occurs mainly in the tropical areas of Africa, Asia and Latin America. Malaria is a parasitic disease spread by the bite of the female *Anopheles* mosquito, which results in infection of the red blood cell. Five main species of the malaria parasite infect humans: *Plasmodium falciparum* (the severest form), *Plasmodium vivax*, *Plasmodium ovale*, *Plasmodium malariae*, *Plasmodium knowlesi*.

Australia was declared malaria-free by the World Health Organization in 1981, and since then, only a small number of cases of locally acquired malaria have been reported from North Queensland. Severe malaria may lead to foetal loss and high maternal mortality due to hypoglycaemia and acute respiratory distress syndrome (ARDS). All forms of malaria in pregnancy may adversely affect the mother and foetus. The main complications are: miscarriage, stillbirth, preterm birth, low infant birth weight, severe maternal and neonatal anaemia.

Pregnant women should be advised to avoid travel to malaria-endemic areas. For pregnant women who cannot avoid travelling, the medical officer should consult with an Infectious Diseases specialist or experienced Travel Medicine doctor to determine the appropriate chemoprophylaxis agent.

Text C

Laboratory diagnosis for malaria

Both thick and thin **blood smears** should be prepared. They should be stained with a Romanowsky stain so as to maximise the occurrence of **diagnostic** criteria such as stippling on the infected red blood cell.

Blood specimens can be taken directly onto a slide from a finger or an earlobe, or by venepuncture into a tube containing an anticoagulant such as heparin or EDTA. From infants, the blood is best obtained from the heel.

If blood in anticoagulant is being used, the smears should be made as soon as possible after collection because the parasite morphology deteriorates markedly with time. Blood specimens older than 12 hours should be rejected and a new specimen collected.

In a febrile patient, three negative malaria **smears** 12 to 24 hours apart rules out the **diagnosis** of malaria

Rapid **diagnostic tests (RDTs)** for malaria antigens should also be requested.

Other tests should include complete **blood count**, urea, creatinine, electrolytes, liver function tests, serum glucose, venous pH, serum lactate and coagulation studies.

This is a **muscle**...

All texts: pneumothorax

Text C

PPP RSAMPLE11

- Sharp chest pain, dyspnoea and cough irritation are the main symptoms.
 - The onset is rapid, and the symptoms are exacerbated by breathing and physical exertion. The pain radiates to the ipsilateral shoulder.
 - The symptoms may be alleviated within 24 h due to adaptation.
- A small pneumothorax may be asymptomatic or cause very mild symptoms.

Clinical signs

- Suppressed or missing respiratory sounds, impaired chest mobility, and hollow echoing (hyperresonance) percussion sounds are often observed.
- Chest movement may be asymmetric.
- The clinical findings can be normal in a small pneumothorax.
- Tachycardia, cyanosis, and hypotension can be observed in tension pneumothorax.
- Subcutaneous emphysema may be present (a crepitation on pressing the skin).
- Signs of injury (haematoma, crepitation from a broken rib, etc.) may be visible on the chest.

- A chest x-ray (preferably posteroanterior, standing) or ultrasound examination is always necessary to confirm the diagnosis.
 - A rim of air is visible or the lung has collapsed.
 - A small pneumothorax may be difficult to detect. A radiograph taken during expiration may be helpful.
 - A large emphysematous bulla may resemble pneumothorax and cause misinterpretation.
- In special cases a CT scan may be necessary (diagnostic problems, planned surgery, investigation of aetiology).

TECHNIQUE:

Questions 7-13

Complete each of the sentences, 7-13, with a word or short phrase from one of the texts. Each answer may include words, numbers or both.

Patients at increased risk of tetanus:

- 7 If a patient has been touching _____ or earth, they are more susceptible to tetanus.
- 8 Any _____ lodged in the site of an injury will increase the likelihood of tetanus.
- 9 Patients with _____ fractures are prone to tetanus.
- 10 Delaying surgery on an injury or burn by more than _____ increases the probability of tetanus.
- 11 If a burns patient has been diagnosed with _____ they are more liable to contract tetanus.
- 12 A patient who is _____ or a regular recreational drug user will be at greater risk of tetanus.

Questions 7-13

Complete each of the sentences, 7-13, with a word or short phrase from one of the texts. Each answer may include words, numbers or both.

Patients at increased risk of tetanus:

- 7 If a patient has been touching _____ or earth, they are more susceptible to tetanus.
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- 11 If a burns patient has been diagnosed with _____ they are more liable to contract tetanus.
- 12 A patient who is _____ or a regular recreational drug user will be at greater risk of tetanus.

Text A

Tetanus is a severe disease that can result in serious illness and death. Tetanus vaccination protects against the disease.

Tetanus (sometimes called 'lock jaw') is a disease caused by the bacteria *Clostridium tetani*. Spores made by the bacteria attack a person's nervous system. Although the disease is fairly uncommon, it can be fatal.

Early symptoms of tetanus include:

- Painful muscle contractions that begin in the jaw (lock jaw)
- Rigidity in neck, shoulder and back muscles
- Difficulty swallowing
- Generalised muscle spasms
- Convulsions
- Breathing difficulties

A person may have a fever and sometimes develop abnormal heart rhythms. Complications include pneumonia, broken bones (from the muscle spasms), respiratory failure and cardiac arrest.

There is no specific 'diagnostic laboratory test'; diagnosis is made clinically. The spastic test is useful: touching the back of the pharynx with a spatula elicits a reflex in tetanus, instead of a gag reflex.

Text B

Human Tetanus Immunoglobulin (HTIG)

Indication:

- Treatment of clinically suspected cases of tetanus
- Prevention of tetanus in high-risk, tetanus-prone wounds

Dose:

Adults in tetanus-prone wounds (200U)

Prevention Dose	Treatment Dose
200 IU by IM injection	400 IU by IM injection*
OR	OR
200 IU by IM injection* if <24 hours since injury/trauma of heavy contamination/burns	400 IU by IM injection* if <24 hours since injury/trauma of heavy contamination/burns
500U - 1000U by IV infusion	500U - 1000U by IV infusion
OR	OR
100 IU by IM injection (given in multiple doses if IV preparation unavailable)	100 IU by IM injection (given in multiple doses if IV preparation unavailable)

*Not to exceed 10U/kg body weight (maximum 1000U) in 24 hours

Contraindications:

- Confirmed anaphylactic reaction to tetanus containing vaccine
- Confirmed anaphylactic reaction to neomycin, sulphamonomethoxime or polygeline B

Adverse reactions:

- Local: pain, erythema, induration (allergic type reactions)
- General: systemic hypersensitivity reactions (anaphylaxis, anaphylactoid crisis)

Text B

Tetanus Risk

Tetanus is an acute disease induced by the toxin tetanospasmin, the spores of which are present in soil.

A TETANUS-PRONE WOUND IS:

- any wound or burn that requires surgical intervention that is delayed for > 6 hours
- any wound or burn at any interval after injury that shows one or more of the following characteristics:
 - a significant degree of tissue damage
 - puncture type wound particularly where there has been contact with soil or organic matter which is likely to harbour tetanus organisms
 - any wound from compound fractures
 - any wound containing foreign bodies
 - any wound or burn in patients who have systemic sepsis
- any lacerated
- any wound from both re-implantation

In tetanus-prone wounds are a proper risk of tetanus. Every opportunity should be taken to ensure that they are fully protected against tetanus. Booster doses should be given if there is any doubt about their immunisation status.

Immunocompromised patients may not be adequately protected against tetanus, despite having been fully immunised. They should be managed as if they were immunocompetent.

Text C

Human Tetanus Immunoglobulin (HTIG)

Indication:

- Treatment of clinically suspected cases of tetanus
- Prevention of tetanus in high-risk, tetanus-prone wounds

Dose:

Adults in tetanus-prone wounds (200U)

Prevention Dose	Treatment Dose
200 IU by IM injection	400 IU by IM injection*
OR	OR
200 IU by IM injection* if <24 hours since injury/trauma of heavy contamination/burns	400 IU by IM injection* if <24 hours since injury/trauma of heavy contamination/burns
500U - 1000U by IV infusion	500U - 1000U by IV infusion
OR	OR
100 IU by IM injection (given in multiple doses if IV preparation unavailable)	100 IU by IM injection (given in multiple doses if IV preparation unavailable)

*Not to exceed 10U/kg body weight (maximum 1000U) in 24 hours

Contraindications:

- Confirmed anaphylactic reaction to tetanus containing vaccine
- Confirmed anaphylactic reaction to neomycin, sulphamonomethoxime or polygeline B

Adverse reactions:

- Local: pain, erythema, induration (allergic type reactions)
- General: systemic hypersensitivity reactions (anaphylaxis, anaphylactoid crisis)