DRUG INFO

UNIT FARMASI HOSPITAL KOTA MARUDU





INTRODUCTION

- Cigarette smoking is one of the main causes of preventable death and disease globally where it leads people to be at risk of certain diseases such as lung cancer and heart disease.
- Recent data revealed that around 27,000 Malaysians die each year due to smoking-related illnesses.
- Quitting smoking has immediate and significant benefits, reducing the risks of diseases caused by smoking, thus improving both physical and mental health.
- However, quitting smoking can be difficult for many even if they voluntarily want to quit after understanding the harms caused by tobacco use.
- This is due to the nicotine content in cigarettes that makes them highly addictive causing both physical and psychological dependence.
- Although many who quit were able to do so successfully without any assistance but the smoking cessation interventions tend to help elevate the quit rates even more.

5A'S STRATEGY FOR BRIEF INTERVENTION

ASK	Identify and document tobacco use status or exposure to tobacco smoke
ADVISE	Advise in a clear, strong and personalized manner, urge every tobacco user to quit.
ASSESS	Is the tobacco user willing to make a quit attempt at this time? If the patient is unwilling to make a quit attempt, provide a motivational intervention built around the "5 R's": Relevance, Risks, Rewards, Roadblocks, and Repetition.
ASSIST	Assist in quit attempt for patients who are willing to make a quit attempt, use counselling with pharmacotherapy (when indicated) to help him or her quit. Apply STAR method in preparations for quitting.
ARRANGE	Follow-up should occur soon after the quit date, preferably during the first week. Subsequent follow-ups are recommended weekly within the first month, and then every two weeks for the 2nd and 3rd month, and monthly after that up to 6 months.

STAR METHOD FOR PATIENT'S PREPARATIONS TO QUIT

Set	Set a quit date. Ideally, the quit date should be within 2 weeks.
Tell	Tell family, friends, and co-workers about quitting and request understanding and support. Also, help patient
	obtain extra-treatment social support from self-help groups, if available.
Anticipate	Anticipate challenges to planned quit attempt, particularly during the critical first few weeks, including
	nicotine withdrawal symptoms. Discuss challenges/triggers and how to overcome them.
Remove	Remove tobacco products from the environment. Prior to quitting, avoid smoking in places where most of
	the time is spent (e.g., work, home, car).

5R'S APPROACH FOR PATIENTS WHO ARE UNWILLING TO QUIT

Relevance	Encourage the patient to indicate why quitting is personally relevant, being as specific as possible.
Risks	Ask the patient to identify potential negative consequences of tobacco use.
Rewards	Ask the patient to identify potential benefits of stopping tobacco use.
Roadblocks	Ask the patient to identify barriers or impediments to quitting and provide treatment that could address barriers.
Repetition	Repeat motivational intervention every time an unmotivated patient visits the clinic setting.

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	Nicotine Gum	Nicotine Inhaler	Nicotine Patch	Nicotine Lozenge	Nicotine Nasal Spray	

Patient selection	 First-line agent for smoking cessation to help control cravings and manage with Contraindication: Recent cerebrovascular accident, Non-smokers and occidence Category D) (except intermittent, short-acting NRT forms of gum and lozenge). 	• •	cy and lactation (FDA
Precaution	Pregnant smokers should be encouraged to quit first without pharmacologic treatment. Nicotine should be used during pregnancy only if the increased	DM, MI, severe dysrhythmia or CVA.	Inhaling nicotine into the nasal mucosa

likelihood of smoking abstinence, with its potential benefits, outweighs the risk Active oesophagitis, produces side of nicotine replacement and potential concomitant smoking. Similar factors oral or pharyngeal effects, particularly should be considered in lactating women. inflammation, gastritis, nasal irritation, that

Skin

Insomnia.

of patch

day:

2. Should be used with caution among certain cardiovascular patient

`		,	infarction	period,	serious	arrhythmias,	and	serious/
worseni	ng angina	pectoris.						
Avoid	coffee	acidic	May		Called	Do not le	ave t	ha natch

Avoid coffee, acidic drinks/ soft drinks for 1min before take qum.	May cause bronchospasm (not given with severe	Do not leave the patch overnight (causes side effects of insomnia
belore taile gaili	airway reactivity.	and vivid dreams).

Local irritation in the

throat

with

mouth and

continued use).

(declined

(must Nausea, vomiting, rotate the site daily), dyspepsia, upper abdominal pain ,headache, insomnia,

First 6 weeks: suck 1

lozenge every 1 to 2

lozenge every 2 to 4

lozenge every 4 to 8

pharvngitis.

hours, then;

hours, then;

hours.

3 weeks: suck 1

3 weeks: suck 1

gastric or peptic ulcer.

Moderate to severe

renal/hepatic impairment. Children

> Nasal and throat irritation, rhinitis, sneezing, and tearing

have limited its

tolerability.

hiccups, dyspepsia, and ache (can prevented using proper chewing technique). First 6 weeks: Chew 1

piece of gum every 1 to 2

Gradually reduce use

over the next six weeks,

for a minimum treatment

duration of three months.

gums/day), then;

(max

soreness.

Mouth

hours

Side

effects

Dosage

Prescribing

instruction

First 8 weeks: 6 to 12 cartridges per day, then;

2 weeks: 3 to 6 cartridges per day,

2 weeks: reduce gradually to zero.

or 14mg/24hours per day: 2 weeks: 1 piece of patch 5mg/16hours or 7mg/24hours per day.

irritation

First 4 weeks: 1 piece

15mg/16hours or

21mg/24hours per

2 weeks: 1 piece of

patch 10mg/16hours

Place it between gum and cheek and suck slowly until it is fully dissolved

(about 3 minutes). It should not be bitten, chewed or

swallowed whole.

First 8 weeks: 1 to 2 doses per hour and increase the dose as needed with a maximum of 40 doses per day, then;

gradual reduction of the number of dose

Remove the cap.

Pump into tissue

until the fine

4 to 6 weeks:

to zero.

- - spray is seen. Tilt your head back slightly.
 - Insert the tip of the bottle as far as you comfortably can
 - into one nostril. Pump the spray firmly and quickly one time. Don't sniff, swallow, or inhale while spraying.

- Chew gum until the taste becomes strong, then rest it between the gums & the cheek.
- When the taste fades, start chewing it again.
- Repeat the chewing routine for 30 min.
- Puff short breaths or inhale into back of throat (not the lungs).
- Twenty minutes of continuous puffing may yield the best effect, but patients may individualize dosing.
- Nicotine in the inhaler is used up after 20 minutes of puffing.
- Apply the patch on the skin, anywhere between the hand to neck, and hip.
- Remove backing from patch and immediately press onto skin. Seal it tightly.
- Leave it for 16 hours or 24 hours then remove it.
- Apply a **new** one at a different site before going back to the same site (at least 5 days apart).

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Non-nicotine based: Varenicline, Sustain	ed Release (SR) Bu	upropion, & Nortriptyline
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	VARENICLINE	SR BUPROPION	NORTRIPTYLINE
Patient selection	 Appropriate as a first-line pharmacotherapy for smoking cessation Contraindicated: Pregnant or breastfeeding women (FDA Category C) & people under the age of 18 	 Appropriate as a first-line pharmacotherapy for smoking cessation Contraindicated: History of seizure disorder, eating disorder, severe hepatic cirrhosis, concomittant used of MAO inhibitor in the past 14 days 	 Second-line agent for smoking cessation (more effective than placebo, but did not offer any additional improvement when combined with NRT) Contraindicated: Pregnant or breastfeeding women (FDA Category C) & people under the age of 18
Precautions	 Care should be taken in patients with a history of psychiatric illness and patients should be advised accordingly At the end of treatment, discontinuation of varenicline was associated with an increase in irritability, urge to smoke, depression, and/or insomnia in up to 3% of patients. The prescriber should inform the patient accordingly and discuss or consider the need for dose tapering. 	 Pregnancy Category (FDA Class C) & lactating women (FDA Class B): used only if the increased likelihood of smoking abstinence, with its potential benefits, outweighs the risk of bupropion SR treatment and potential concomitant smoking Excessive use or abrupt discontinuation of alcohol or sedatives. Patients with a recent history of MI or unstable heart disease. False positive urine immunoassay screening tests for amphetamines. 	The efficacy of nortriptyline appears to be independent of its antidepressant effects, and is not restricted to people with a history of depression or depressive symptoms, during smoking cessation
Side effects	Nausea, abnormal dreams and sleep disturbance. More serious adverse events (but uncommon); cardiovascular events, depression, suicidal ideation and suicide	Insomnia; dry mouth; rarely (1:1000) seizures and perhaps psychiatric problems. May affect ability to drive or operate machinery.	Dry mouth, constipation, nausea, and sedation
Dosage	Days 1-3: 0.5 mg OD; Days 4-7: 0.5 mg BD; Day 8-end of treatment: 1 mg BD Severe renal impairment (CrCl <30ml/min): 0.5mg OD for first 3 days, increased to MAX of 0.5mg BD @ 1mg OD Patients should be treated for 12 weeks	Patients should begin with a dose of 150 mg OM for 3 days, then increase to 150 mg BD for 7-12 weeks following the quit date. Max: 300mg daily Maintenance therapy: 150 mg BD for up to 6 months Renal impairment: 150mg OD	Initially 25 mg per day is taken and this may be increased up to 75 mg over ten days to five weeks as adverse effects allow. The maximum dose should be taken for eight to twelve weeks and tapered down at the end to avoid withdrawal symptoms
Prescribing instruction	 Tablets should be swallowed whole with water, can be taken with or without food If someone using varenicline experiences changes in mood or behaviour, advise them to stop 	Start treatment at least one week before their quit date and use it for at least 7 weeks. Scheduling of dose: if insomnia is marked, take the PM dose earlier (in the afternoon, at least 8 hours after the first	Start nortriptyline at least one week before their quit date and use it for 12 weeks. The dose should be tapered at the end of treatment to avoid withdrawal symptoms that may occur.

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taking varenicline and contact

health care provider immediately

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Avoid alcohol

dose) may provide some relief.

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