

Pharmacy Services

The Forth Valley Minor Ailments Service Formulary

5th edition

February 2015

Contents

Contact numbers	2	Section 5	
IntroductionHow to use this formularyUpdates in this edition	3 5	Skin Acne Eczema/Allergy Boils	14
PART 1			
Section 1 Gastrointestinal Indigestion Infant Colic Diarrhoea Constipation Haemorrhoids Mouth ulcers Teething Oral Thrush	6	Section 6 Eyes Tear deficiency Conjunctivitis Section 7 Ear Removal of Ear Wax	15
Section 2		PART 2	
Respiratory Hay Fever Cough and Nasal Congestion	8	Summary of Preparations by BNF classification	16
Section 3			
Central Nervous System ■ Pain	10		
Section 4			
Infections Fungal infections Vaginal Candidiasis Athlete's Foot Viral infections Cold sores Warts and verrucae Parasitic infections Threadworms Head lice Scabies Urinary Tract Disorders	11		

Contact numbers

For Queries relating to the Forth Valley Minor Ailments Service Formulary:

Prescribing Support Team NHS Forth Valley Euro House Wellgreen Place STIRLING FK8 2DJ

Tel: 01786 431200 Fax: 01786 431199

For General Queries relating to the Minor Ailments Service:

Forth Valley Community Pharmacist Practitioner Champions:

Carole Smith	NCC, Alloa	Tel: 01259-218039	Email: carolesmith@nhs.net
Pamela Meikle			Email: pamelameikle@nhs.net
Kirstin	Lloydspharmacy,	Tel: 01324-822360	Email: kirstin.mcintosh@nhs.net
McIntosh	Denny		
Chris Miller	Lindsay & Gilmour, Sauchie	Tel: 01259 723155	Email: chrismiller2@nhs.net

Practitioner Services National ePharmacy Service Helpdesk:

Email: nss.psdhelp@nhs.net

Tel: 0131 275 6600

For Technical or Hardware Problems

These queries should be directed to your PMR / system supplier helpdesk

Additional general IT Support can be obtained locally from the Forth Valley Community Pharmacy IM&T Facilitator:

Suzanne MacCrimmon Mobile::07920-294443 Email: suzanne.maccrimmon@nhs.net

Introduction - how to use this formulary

The Minor Ailments Service (MAS) is one of the four essential pharmaceutical care services in the new community pharmacy contract. It provides NHS management of common clinical conditions. In particular, this new service aims to:

- improve access to advice and medicines for common illnesses
- promote care through the community pharmacy setting
- transfer care from GPs and nurses to pharmacists where appropriate, and
- help address health inequalities

Patients are eligible for this service if they are included in exemption categories based on age, hold a current maternity or medical exemption certificate, or are in receipt of one of the identified income-related benefits, are registered with a GP in Scotland and are not resident in a Care Home.

The following groups of medicines from the British National Formulary can be provided:

- P and GSL medicines
- dressings and appliances from Part 2 of the Scottish Drug Tariff
- selected items from Part 3 of the Scottish Drug Tariff (listed in the relevant sections of this Formulary)

No black-listed products may be supplied

Additionally, several GSL or P medicines or groups of medicines are specifically excluded from MAS. At the time of writing these are: Nicotine Replacement Therapy products, Emergency Hormonal Contraception, Orlistat (*Alli*®), Simvastatin (*Zocor Heart-Pro*®) (product now discontinued), Azithromycin (*Clamelle*®) Locally we would not support the use of terbinafine nail product (Curanail®).

Contractors are advised to monitor up-to-date advice from Community Pharmacy Scotland for any changes to this list.

All of the medicines listed in this edition of the NHS Forth Valley Pharmacy Minor Ailments Service Formulary are GSL or P and the majority are included the Forth Valley Formulary. Appropriate amounts to prescribe are suggested. Two prescription only medicines (POMs) are included (Chloramphenicol Eye Drops and Fluconazole 150mg capsules). These POMs may be provided as part of the service where this is more cost-effective, but you should note that these require Patient Group Directions to be available in the community pharmacy setting, signed off by each pharmacist wishing to operate under the PGD in the individual community pharmacy premises.

You will be able to use this brief formulary most effectively if you do so in conjunction with the Forth Valley Formulary, which is available online in the Forth Valley section of the SHOW Community Pharmacy website (www.communitypharmacy.scot.nhs.uk). The Forth Valley Formulary contains a wealth of local clinical opinion and treatment guidance and can be used to promote consistent care to patients regardless of where they present for treatment. Additional items are included in the Forth Valley Formulary which may be appropriate for the treatment of minor ailments in the pharmacy.

This Formulary supports your right to use your professional judgement to determine what is clinically most appropriate for your patients and recognises your responsibility for that decision.

We are confident that the medicines in this Formulary will meet the need of the majority of patients under the Minor Ailments Service. However, you can request that alternative or new medicines are considered or for minor ailments to have a formulary choice added. The Formulary is managed by the New Drugs Sub-group, a sub-committee of the Area Drug and Therapeutics Committee.

Supplies made as part of the Minor Ailments Service will be monitored by the NHS Forth Valley Prescribing Support Team to assess levels of compliance with this Formulary. Data from this monitoring will be provided to contractors on a regular basis.

Homeopathic medicines have **not** been included in this formulary. Some products are prescribable on the Minor Ailments Service, however they must be licensed GSL or P medicines and be listed in the Chemist and Druggist Pricelist as such, and not blacklisted. They should only be prescribed if it is considered that this would benefit the patient and the Pharmacist has undertaken the appropriate training and are competent in the use of homeopathic medicines before prescribing.

MAS Pricing Guide and Pricing Rules

The recent addition of Part 7B to the Scottish Drug Tariff (SDT), resolves previous issues with pricing and payment of certain items prescribed by generic name as previously highlighted by Community Pharmacy Scotland (CPS) in their 'MAS Pricing Guide and Rules' (Part B) produced in September 2007. Following this amendment by NSS Practitioner Services, pharmacy contractors should be paid correctly for the items when prescribed by generic name.

General advice to ensure correct payment under MAS is:

- Prescribe by generic name
- Ensure you have dispensed and endorsed the OTC Packsize (as listed in this Formulary this matches the Packsize in SDT Part 7B where an entry exists)
- Where a product requires to be prescribed by brand name, this has been indicated in the Formulary. The only product currently affected is Clotrimazole Vaginal Tabs 500mg. Currently these should still be supplied as a non-blacklisted proprietary product, prescribed by brand name.

Contractors are advised to monitor up-to-date advice from CPS on this issue. http://www.communitypharmacyscotland.org.uk/

Updates in this edition of the FV MAS Formulary

Deleted Product	Replacement Product or New Addition
Piperazine Oral Powder (Pripsen®) – product	
discontinued	
Domperidone 10mg tablets	
Benoxyl peroxide 2.5% aqueous gel	Benoxyl peroxide gel 5% (Acnecide®)
(Panoxyl [®])	
Aqueous Cream	Ultrabase [®] cream
Diprobase [®] cream	Zerobase [®] cream
Epaderm® Emollient	Zeroderm [®] ointment
Polytar [®] Liquid	Neutrogena T/Gel® Therapeutic shampoo
	Zerocream [®] cream – new addition
	Bonjela® Junior – new addition to possible
	options for non-blacklisted Lidocaine teething
	gel.

Contact details for Community Pharmacy Practitioner Champions have been updated, along with minor updates to the introduction, which include a local policy statement on terbinafine nail lacquer.

PART 1

Section 1 Gastrointestinal

Indigestion (including dyspepsia and gastro-oesophageal reflux disease)

Co-magaldrox SF Suspension 195/220/5 (Mucogel® – first choice, or Maalox®)	500ml
Compound alginic acid preparations	
Peptac [®] Liquid	500ml
Gaviscon Advance® Tablets	60
H2 Receptor Antagonists	

Infant Colic

Simeticone liquid 40 mg/ml	50 ml
Offiction inquia +0 frig/frii	30 1111

6, 12

Diarrhoea

In adults and children over 12 years. Maximum strength 2mg, maximum dose 4mg and maximum daily dose 16mg.

Loperamide 2mg Capsules	8, 12

Oral rehydration sachets

Ranitidine 75mg Tablets

Prevention and treatment of electrolyte depletion is the first line treatment in acute diarrhoea.

Oral Rehydration Salts (Sachets)	6, 20

Constipation

Bulk forming laxatives

Ensure adequate fluid intake. Not to be taken immediately before going to bed.

Ispaghula Husk 3.5G	30	

Stimulant laxatives

Glycerin 1g Suppositories (Infant)	12
Glycerin 2g Suppositories (Child)	12
Glycerin 4g Suppositories (Adult)	12
Senna syrup 7.5mg/5ml	100ml
Senna Tabs 7.5mg	30

Osmotic laxatives

Lactulose Solution	300ml

Haemorrhoids

Soothing haemorrhoidal preparations

Anusol® Cream	23g
Anusol® Ointment	25g
Anusol® Suppositories	12

Compound haemorrhoidal preparations with corticosteroids

Adults over 18 years of age

/	Anusol Plus® HC Ointment	15g
/	Anusol Plus [®] HC Suppositories	12

Mouth Ulcers

Drugs for oral ulceration and inflammation

Benzydamine 0.15% Oral Rinse	300ml
Benzydamine 0.15% Spray	30ml
Chlorhexidine gluconate 0.2% Mouthwash	300ml
Choline Salicylate Dental Gel BP (Bonjela®)	15g
NB: Not suitable for children under 16 years of age	-
Hydrocortisone 2.5mg muco-adhesive buccal tablets	20

Teething

Lidocaine Teething Gel (eg Bonjela®Junior, Calgel Teething Gel® prescribed by	10g	
non-blacklisted brand name)		

Oral Thrush

Oropharyngeal Anti-Infective Drugs

Miconazole Oral Gel	15g

Section 2 Respiratory

Hay Fever

Antihistamines

Cetirizine 10mg Tablets	30
Cetirizine oral solution 5mg/5ml (licensed from 2 years)	200ml
Loratadine 10mg Tablets	7

Drowsiness may affect performance of skilled tasks (e.g. driving); sedating effects enhanced by alcohol.

Chlorphenamine 4mg Tablets	30
Chlorphenamine Syrup 2mg/5ml	150ml

Other anti-inflammatory preparations

Sodium Cromoglicate 2% Eye Drops	5ml/10ml
Antazoline 0.5%/Xylometazoline 0.05% Eye Drops (Otrivine Antistin®)	10ml
(Avoid in angle-closure glaucoma)	

Steroid Nasal Spray

Beclometasone Nasal Spray	100,180
	doses
Fluticasone Nasal Spray (2 nd line)	60 doses

Cough and Nasal Congestion

Aromatic Inhalations

Menthol Crystals	5g

Expectorants and demulcent cough preparations

Simple SF Linctus	200ml
Simple Paediatric SF Linctus	Dispense
	up to 200ml

There is little evidence to support the use of cough suppressants. For persistent cough lasting 4 to 6 weeks, the underlying cause should be established.

Systemic Nasal Decongestants

Pseudoephedrine 30mg/5ml Oral Solution	100ml
Pseudoephedrine 60mg Tablets	12

Topical Nasal decongestants

Xylometazoline 0.1% Nasal Drops (Adults and children over 12 yrs)	10ml
Xylometazoline 0.1% Nasal Spray (Adults and children over 12 yrs)	10ml
Xylometazoline 0.05% Paediatric Nasal Drops (age 2yrs and over)	10ml
Sodium Chloride Nasal Drops 0.9%	10ml

Section 3 Central Nervous System

Pain

Non-opioid analgesics

Paracetamol 500mg Tablets	32
Paracetamol SF 120mg/5ml Suspension	100ml,
	200ml
Paracetamol SF 250mg/5ml Suspension	100ml,
	200ml

Non-steroidal anti-inflammatory drugs

Ibuprofen 200mg Tablets	24
Ibuprofen 400mg Tablets	24
Ibuprofen SF Suspension 100mg/5ml	150ml

Weak opioids: second-line after paracetamol

Co-Codamol 8/500 Tablets (2nd line agent after paracetamol)	32

Topical Antirheumatics

A	E0~ 100~	
Algesal ®	50g, 100g	1

Section 4 Infections

Fungal Infections

• Vaginal Candidiasis

Canesten Pessary 500mg	1
(ensure 'P' version supplied and labelled by brand name)	
Clotrimazole 1% Cream	20g
Clotrimazole Vaginal Cream 10%	5g
Fluconazole 150mg Capsules (PGD exists to allow use of POM pack)	1

• Athlete's Foot

Clotrimazole 1% Cream	20g
Miconazole 2% Cream	30g
Miconazole Spray Powder (<i>Daktarin</i> [®] <i>Aktiv</i> Spray Powder)	100g
Terbinafine Cream	7.5g

Viral Infections

Cold Sores

Aciclovir 5% Cream	2g

Warts and Verrucae

Preparations for warts and calluses

Salactol® Paint	10ml
Occlusal® Application	10ml
Salatac [®] Gel	8g

Parasitic Infections

• Threadworms

All family members should be treated at the same time, even if they have no symptoms, to prevent reinfection. Mebendazole is the first-line treatment except for children under 2 years of age and pregnant women, when piperazine is the preferred choice.

Mebendazole Tablets 100mg	1, 2
Mebendazole Tablets 100mg (Family Pack)	4, 8

Head Lice

The Forth Valley guidelines on the treatment of head lice should be consulted before prescribing (http://tinyurl.com/fymasinfo).

Insecticide treatment should never be used as a preventive measure and every effort should be made to discourage unnecessary or inappropriate treatment with insecticides. Insecticidal lotions should only be used when a living, moving louse (black, sesame seed size, not white nit cases) has been found on the head. A complete treatment of two applications 7 days apart should always be used. It is not necessary to treat the whole family - only contacts with evidence of infection require treatment.

The products recommended for treatment have proven efficacy – shampoos, mousse, electronic combs/zappers and tea tree oil products do not and use of these should not be encouraged or supported.

Ensure that you have effective detection combs available for purchase by the patient/client, (these will have rigid teeth set not more than 0.3mm apart).

The Head Lice Policy advises that all prescriptions should be supplied with:

- An NHS Forth Valley Head Lice leaflet;
- A Forth Valley Frequently Asked Questions leaflet;
- A discussion with the patient/carer on combing technique;
- A reminder on the importance of contact tracing.

Do not assume that "reinfections" or "treatment failures" are truly infections. Avoid recommending retreatment without first of all establishing that living, moving lice are still present after two applications of lotion seven days apart and after a full professional assessment as to the ways in which the patient may not have complied carefully with the first attempt.

Wet combing' techniques claim to prevent or control head lice and their effectiveness in the community has been supported by recent authoritative scientific research. They may have a place for individual families if, for example, they are not prepared to use an insecticidal preparation or if they are prepared to spend the time using this approach. It is possible to prescribe bug busting kits.

A minimum of 50mls is needed for a single application. A structured MOSAIC approach where patients/clients are recommended alternating therapies has been approved throughout Forth Valley.

The current recommendation within the Head Lice policy is :

1st choice: Malathion 0.5% Liquid, 2nd choice: Hedrin[®] Lotion.

Malathion 0.5% Liquid (Derbac M®)(aqueous)	50ml/200ml
Dimeticone 4% Lotion (Hedrin®)	50ml/150ml
Bug Buster headlice detection and eradication kit	1

• Scabies

A second treatment should always be administered after 7 days. All members of the household and close contacts should be treated simultaneously.

	00
Permethrin (<i>Lyclear</i> ® <i>Dermal Cream</i>)	30g

Urinary Tract Disorders

Potassium Citrate effervescent tablets (Effercitrate®)	12
Sodium Citrate Sachets (Cymalon®) (for patients on potassium sparing medication	6
eg ACE inhibitors, spironolactone)	

Section 5 Skin

Acne

Topical Preparations for acne

Benoxyl Peroxide 5% Gel (Acnecide [®])	30a
201107ty	, 101100140 /	1009

Eczema/Allergy

Emollients

Ultrabase® Cream	50g, 500g
Zerobase [®] Cream	50g, 500g
Doublebase [®] Gel	100g, 500g
Zeroderm [®] ointment	125g, 500g
Zerocream [®] cream	50g, 500g

Emollient Bath Additives

Oilatum® Emollient	250ml, 500ml
Balneum Plus® (2 nd line)	500ml

Barrier Preparations

Sudocrem [®]	60g, 125g
Metanium® Ointment (2 nd Line)	30g

Topical local anaesthetics and antipruritics

Calamine Lotion	200ml
Crotamiton (<i>Eurax</i> ®) Cream	30g, 100g
Calamine Aqueous Cream	100g

Topical corticosteroids

Hydrocortisone 1% Cream	15g

Shampoos and scalp preparations

Neutrogena T/Gel® Therapeutic shampoo	125ml
Capasal [®] Shampoo	250ml
Ketoconazole Shampoo	60ml, 100ml

Preparations for Boils

Magnesium Sulphate Paste	50g

Section 6 Eyes

Tear deficiency, ocular lubricants and astringents

Hypromellose 0.3% Eye Drops	10ml
Liquid Paraffin Eye Ointment (Lacri-Lube®)	3.5g, 5g
Carbomer 980 eye drops 0.2% (Viscotears®)	10g

• Conjunctivitis

For the topical treatment of acute bacterial conjunctivitis in adults, the elderly and children aged two years and over

Antibacterials

Chloramphenicol Eye Drops 0.5% (PGD exists to allow use of POM pack) 10ml

Section 7 Ear

Removal of Ear Wax

Sodium Bicarbonate Ear Drops 5%	10ml
Cerumol® Ear Drops	11ml

PART 2

Summary of Preparations by BNF Classification

1.1 Antacids

- Co-magaldrox SF (Maalox[®], Mucogel[®]) 195/220 Suspension (500 ml)
- Compound alginic acid preparations Peptac[®] Liquid (500ml) Gaviscon Advance® Tablets (60)
- Simeticone liquid 40 mg/ml (50 ml)

1.3 Antisecretory Drugs

Ranitidine tablets 75mg (6, 12)

1.4 Antimotility drugs

Loperamide capsules 2 mg (8, 12)

1.6.1 Bulk forming laxatives

Ispaghula Husk 3.4g/3.5 g sachet (30)

1.6.2 Stimulant laxatives

- Glycerin 1g Supps (Infant) (12)
- Glycerin 2g Supps (Child) (12)
- Glycerin 4g Supps (Adult) (12)
- Senna tablets 7.5 mg (30)
- Senna syrup 7.5mg/5ml (100ml)

1.6.4 Osmotic laxatives

Lactulose solution (300 ml)

1.7.1 Soothing haemorrhoidal preparations

- Anusol® Cream (23 g) Anusol® Ointment (25 g)
- Anusol[®] Suppositories (12)

1.7.2 Compound haemorrhoidal preparations with corticosteroids

- Anusol Plus HC[®] Ointment (15 g) Anusol Plus HC[®] Suppositories (12)

3.4.1 Antihistamines

- Cetirizine tablets 10 mg (30)
- Cetirizine oral solution 5 mg/5 ml (200 ml)
- Loratadine 10mg Tablets (7)
- Chlorphenamine tablets 4 mg (30)
- Chlorphenamine oral solution 2 mg/5 ml (150 ml)

3.8 Aromatic Inhalations

Menthol Crystals (5 g)

3.9 Cough Preparations

- Simple SF Linctus (200ml)
- Simple Paediatric SF Linctus (up to 200ml)

3.10 Systemic Nasal Decongestants

- Pseudoephedrine 30mg/5ml Oral Solution (100ml)
- Pseudoephedrine 60mg Tablets (12)

4.7 Analgesics

Non-opioid analgesics

- Paracetamol tablets 500mg (32)
- Paracetamol oral suspension SF 120mg/5mL (100 ml)
- Paracetamol oral suspension SF 250mg/5mL (100 ml)

Weak opioids

Co-codamol 8/500 tablets (32)

5.2 Antifungal Drugs

Fluconazole 150mg Capsules (1) - for vaginal candidiasis only)

5.5.1 Drugs for Threadworms

- Mebendazole tablets 100 mg (1, 2)
- Mebendazole tablets 100 mg (Family Pack) (4, 8)

7.2.2 Vaginal and vulval infections

- Canesten® Pessary 500mg ('P' version) (1)
- Clotrimazole cream 1% (20 g)
- Clotrimazole vaginal cream 10% (5 g)

7.4.3 Drugs used in urological pain

- Potassium Citrate effervescent tablets (Effercitrate®) (12)
- Sodium Citrate Sachets (Cymalon®) (6)

9.2.1.2 Oral rehydration therapy

Oral Rehydration Salts (6, 20 sachets)

10.1.1 Non-steroidal anti-inflammatory drugs

- Ibuprofen tablets 200 mg (24)
- Ibuprofen tablets 400 mg (24)
- Ibuprofen SF suspension 100 mg/5 ml (150

10.3.2 Rubefacients and other topical antirheumatics

Algesal® (50g, 100g)

11.3.1 Antibacterials

• Chloramphenicol eye drops 0.5% (10ml)

11.4.2 Other anti-inflammatory preparations

- Sodium cromoglicate eye drops 2% (5ml/10
- Antazoline 0.5%/Xylometazoline 0.05% Eye Drops (Otrivine Antistin®) (10ml)

11.8.1 Tear deficiency, ocular lubricants and astringents

- Hypromellose eye drops 0.3% (10 ml)
- Liquid Paraffin Eye Ointment (*Lacri-Lube*®) (3.5g / 5g)
- Carbomer 980 (Viscotears®) eye drops 0.2%

12.1.3 Removal of Ear wax

- Sodium bicarbonate ear drops 5% (10ml)
- Cerumol® Ear Drops (11ml)

12.2.1 Nasal Allergy

- Beclometasone Nasal Spray (100, 180
- Fluticasone Nasal Spray (2nd line) (60 doses)

12.2.2 Topical Nasal decongestants

- Xvlometazoline nasal drops 0.1% (10 ml)
- Xylometazoline nasal spray 0.1% (10 ml)
- Xylometazoline 0.05% Paediatric Nasal Drops (10ml)
- Sodium Chloride Nasal Drops 0.9% (10ml)

12.3.1 Drugs for oral ulceration and inflammation

- Benzydamine oral rinse 0.15% (300 ml)
- Benzydamine spray 0.15% (30 ml)
- Chlorehexidine mouthwash 0.2% (300 ml)
- Choline Salicylate Dental Gel BP (Bonjela®)
- Lidocaine Teething Gel (eg Bonjela® Junior, Calgel Teething Gel® prescribed by nonblacklisted brand name) (10g)
- Hydrocortisone 2.5mg muco-adhesive buccal tablets (20)

12.3.3 Oropharyngeal Anti-Infective Drugs

Miconazole oral gel 24 mg/ml (15 g)

13.2 Emollient and barrier preparations

- Ultrabase[®] cream (50g, 500g) Zerobase[®] cream (50g, 500g)
- Doublebase[®] gel (100g, 500g)
- Zeroderm[®] ointment (125g, 500g)
- Zerocream[®] cream (50g, 500g)

13.2.1.1 Emollient Bath Additives

Oilatum[®] Emollient (250 ml, 500 ml)

Balneum Plus® (500 ml)

13.2.2 Barrier Preparations

- Sudocrem[®] (60 g, 125 g)
- Metanium[®] Ointment (2nd Line) (30g)

13.3 Topical local anaesthetics and antipruritics

- Calamine Lotion (200ml)
- Crotamiton (*Eurax*[®]) Cream (30g, 100g) Crotamiton (*Eurax*[®]) Lotion (100ml)
- Calamine Aqueous Cream (100g)

13.4 Topical corticosteroids

Hydrocortisone cream 1% (15 g)

13.6.1 Topical Preparations for acne

Benzoyl peroxide gel 5% (endorse as Acnecide®) (30g)

13.7 Preparations for warts and calluses

- Salactol[®] Paint (10ml) Occlusal[®] Application (10 ml)
- Salatac[®] gel (8g)

13.9 Shampoos and scalp preparations

- Neutrogena T/Gel® Therapeutic shampoo (125ml)
- Capasal[®] shampoo (250 ml)
- Ketoconazole shampoo 2% (60ml, 100 ml)

13.10.2 Antifungal preparations

- Clotrimazole cream 1% (20 g)
- Miconazole cream 2% (30g)
- Miconazole Spray Powder (Daktarin® Aktiv Spray Powder) (100g)
- Terbinafine Cream (7.5 g)

13.10.3 Antiviral preparations

Aciclovir cream 5% (2g)

13.10.4 Parasiticidal Preparations

- Malathion aqueous liquid 0.5% (50 ml, 200 ml)
- Dimeticone 4% Lotion (Hedrin®)
- Permethrin dermal cream 5% (30 g)

13.10.5 Preparations for minor cuts and abrasions/boils

Magnesium Sulphate Paste (50g)

Devices for Headlice Allowable under MAS:

Bug Buster headlice detection and eradication kit (1)