

# Good Practice Guidance Reducing Harm from Omitted and Delayed Medicines

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Presenter: Sabiehah Latif

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### **Learning Objectives**

- Examples of medicines which must not be delayed or omitted
- Guidance on what to do following a missed dose
- Record-keeping
- Common reasons for missed & delayed doses and suggested actions
- Preventing missed & delayed doses
- Dealing with errors and incidents





# What contributes to delayed and omitted doses?

Common sources of errors we've seen in practice

Poor documentation

Resident asleep

Away from care home e.g. day centre, appointment

Stock levels not matching recorded balance

Refusal





### What contributes to delayed and omitted doses?

Reasons for delayed and omitted doses can vary widely, and errors can occur as a result of poor practice in any stage of the medicines process including:

- Transfer of care
- Medicines reconciliation
- Prescribing
- Transcribing
- Ordering, supply & receipt
- Administration

Local guidance has been developed to support care staff with prevention of missed & delayed doses





### Examples of medicines which are time-critical (i.e. where timeliness of administration is crucial)

Treatment area	Examples of medicines	Potential consequence of omission
Acute respiratory conditions e.g. asthma attack	Salbutamol, Terbutaline, Formoterol	Could result in medical emergency
or COPD exacerbation		
Acute respiratory conditions (i.e. not routine	Corticosteroids e.g. Prednisolone	Could result in medical emergency
care for stable breathing)		
Anaphylaxis	Adrenaline e.g. Epipen, Jext, Emerade	Could be life-threatening
Chest pain in angina	Glyceryl Trinitrate (GTN)	Worsening of chest pain symptoms
Diabetes – To treat high blood sugar levels	Insulin – short acting insulins e.g. NovoRapid, Humalog	If blood sugar levels continue to rise, this may develop into diabetic ketoacidosis which is serious
Diabetes – To treat low blood sugar levels (hypoglycaemia)	Glucose oral products (for choice of products see <u>link</u> )     Glucagon injection e.g. Glucagen	Confusion, blurred vision, slurred speech, drowsiness, seizures, unconsciousness
Severe chronic pain & breakthrough pain	Morphine, Oxycodone	Loss of pain control
Palliative/ end of life symptom control	Glycopyronnium bromide, Levomepromazine, Midazolam	Poor symptom control
Parkinson's Disease	Co-beneldopa, Co-careldopa, Rotigotine, Ropinirole, Entacapone, Amantadine, Pramipexole	Loss of symptom control, it can take a long time for a person to get back to their baseline
Respiratory conditions	Oxygen	Could result in medical emergency
Seizures – Rescue medication	<ul><li>Diazepam</li><li>Midazolam e.g. Buccolam, Epistatus</li></ul>	Loss of seizure control
Any drug intended for 'stat' (immediate) administration	Time of administration must b	e recorded on the MAR chart





If a resident becomes unwell and is unable to take their medicines, contact the GP or specialist. Stopping Parkinson's medicines suddenly can be dangerous.

#### **Symptoms**

- Slow movements
- Rigidity
- Tremor
- Loss of balance

Parkinson's Disease

**Examples of medication** used to treat Parkinson's Disease include:

- Co-beneldopa (e.g. Madopar)
- Co-careldopa (e.g. Sinemet)
- Rotigotine
- Ropinirole
- Entacapone
- Amantadine
- Pramipexole

**Timing** of medicines for Parkinson's Disease:

- Will be based on individual needs
- Must be specified by the prescriber
- Must be specified clearly on the MAR chart
- May not fit in with the standard medicines administration rounds
- Should only be adjusted after discussion with a specialist in managing Parkinson's Disease



Develop person-centred care plans

disease will receive their medicines

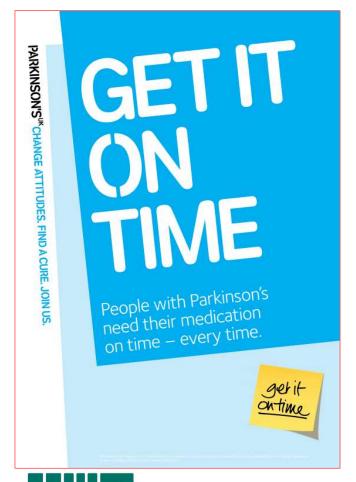
safely and in a way that meets their

needs. Support residents with self-

to show how people with Parkinson's



### Parkinson's 'Get It On Time' Resources









# Examples of medicines where <u>a dose delayed beyond 2 hours</u> could result in significant short-term or long-term patient impact:

Treatment area	Examples of medicines
Diabetes – To treat high blood sugar levels	<ul> <li>Insulin (intermediate-acting) e.g. Humalog Mix 25, Humalog Mix 50, Humulin I, Humulin M3, Insulatard, Novomix 30</li> <li>Insulin (long-acting) e.g. Abasaglar, Lantus, Levemir, Tresiba, Toujeo</li> </ul>
Fluid and electrolyte imbalance	Sando-K, Calcium Resonium
Immunosuppressants for treatment of organ transplantation	Tacrolimus (e.g. Adoport®, Prograf®)

If dose is delayed beyond 2 hours or omitted, this could result in complications and/ or hospitalisation.





# Examples of medicines where <u>a dose omission</u> (i.e. not administered by the time of the next scheduled dose) could result in significant short-term or long-term patient impact:

Treatment area/ medicine group	Examples of medicines
Anticoagulants for Stroke/ DVT/ PE	<ul> <li>Apixaban, Dabigatran, Edoxaban, Rivaroxaban - these are also known as NOACs or DOACs</li> <li>Warfarin</li> </ul>
Arrhythmia	Amiodarone, Flecainide, Verapamil
Arrhythmia, angina	Atenolol, Bisoprolol, Metoprolol, Propranolol
Crohn's Disease & Ulcerative Colitis	Mesalazine, Sulfasalazine
<b>Corticosteroids</b> (when used in the long-term management of inflammatory disorders)	Dexamethasone, Hydrocortisone, Prednisolone
Cytotoxic drugs & immunosuppressants (medicines that suppress the immune system) (Used for a range of conditions)	<ul> <li>Oral e.g. Azathioprine, Ciclosporin, Cyclophosphamide, Hydroxycarbamide, Leflunomide, Methotrexate, Mercaptopurine, Mycophenolate</li> <li>Injectable e.g. Triptorelin</li> </ul>
Diabetes	<ul> <li>Oral e.g. Alogliptin, Gliclazide, Glimepiride, Linagliptin, Metformin, Pioglitazone, Sitagliptin, Tolbutamide</li> <li>Injectable e.g. Dulaglutide, Exenatide</li> </ul>
Epilepsy	Carbamazepine (e.g. Tegretol®), Clobazam, Clonazepam, Gabapentin, Lamotrigine, Levetiracetam, Phenytoin (e.g. Epanutin®), Pregabalin, Sodium valproate (e.g. Epilim®)
Eye conditions (eye drops/ ointments)	<ul> <li>Inflammatory eye conditions e.g. Prednisolone, Dexamethasone, Betamethasone, Fluorometholone</li> <li>Glaucoma e.g. Latanoprost, Bimatoprost, Timolol, Dorzolamide, Brinzolamide, Brimonidine</li> </ul>
Infections	Oral antibiotics/antifungals/antivirals (examples not provided as risk of delay or omission will vary)
Rheumatoid arthritis	Hydroxychloroquine, Methotrexate, Sulfasalazine
Schizophrenia, psychoses, mania, bipolar disorder	<ul> <li>Antipsychotics (oral) e.g. Aripiprazole, Clozapine, Olanzapine, Quetiapine, Risperidone</li> <li>Antipsychotics (depot) e.g. Flupenthixol Decanoate, Risperidone, Zuclopenthixol Decanoate</li> <li>Lithium</li> </ul>

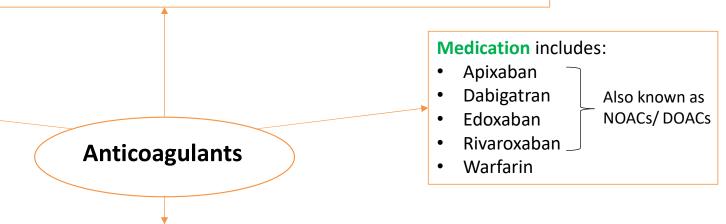




Anticoagulants are used to treat & prevent blood clots in the following conditions:

- Atrial fibrillation (irregular heart beat), which can lead to stroke or TIA (transient ischaemic attack i.e. mini stroke)
- Deep Vein Thrombosis (DVT)
- Pulmonary Embolism (PE)

Protective effects of NOACs can start to fade even after one dose omission - can lead to reduction in anticoagulant effect and increase the risk of blood clots.



Care plans should include the following information to support the safe use of anticoagulants:

- How to use anticoagulants
- How long to take treatment
- Possible side effects and what to do if these occur (most common side effects are bruising & bleeding)
- The effects of other medications, foods, and alcohol on oral anticoagulation treatment
- How to monitor anticoagulant treatment
- How anticoagulants may affect their dental treatment
- When and how to seek medical help





If a dose is missed, contact the prescriber or specialist clinic. For specific advice on Methotrexate, see guidance.

Prescriptions for cytotoxic drugs should clearly state the dose and frequency for administration. Directions such as 'as directed' must not be used, the prescriber must be consulted to change the directions.

Used for a wide range of conditions e.g. Cancer, Rheumatoid Arthritis, Psoriasis, Crohn's Disease

Cytotoxic drugs & immunosuppressants

Dispensed in original packs rather than compliance aids or monitored dosage systems (MDS).

These are disease-modifying drugs that affect how the body's cells grow and reduce the activity of the immune system

#### **Examples** of medicines include:

- Azathioprine
- Ciclosporin
- Cyclophosphamide
- Hydroxycarbamide
- Leflunomide
- Methotrexate
- Mercaptopurine
- Mycophenolate

Plus many more....





#### Treatment of seizures – Rescue medicines

**Prevention of seizures** 

**Medicines for epilepsy** 

Rescue medicines are used to **treat** seizures – prescribed as a 'PRN'.

Anti-epileptic drugs (AEDs) are used to **prevent** seizures – prescribed as **regular** medicines

Examples of rescue medicines:

- Buccal midazolam e.g. Buccolam,
   Epistatus must be prescribed by brand
- Rectal diazepam

Prescriber must give detailed information about how & when to administer.

A few examples:

- Carbamazepine (e.g. Tegretol®)
- Clobazam
- Clonazepam
- Gabapentin
- Levetiracetam
- Phenytoin (e.g. Epanutin®)
- Sodium valproate (e.g. Epilim®)

Care plans should include information about:

- how the seizure presents itself
- **the resident's rescue medicines**, which should include what effect these should have and within what time frame
- when to seek more help e.g. when to call for an ambulance

Care staff supporting people with rescue medicines should be **trained** and **competent** to be able to administer them.

Advice provided by the <u>Epilepsy Society</u> recommends, *in general*, **if a dose is** missed and the drug is usually taken:

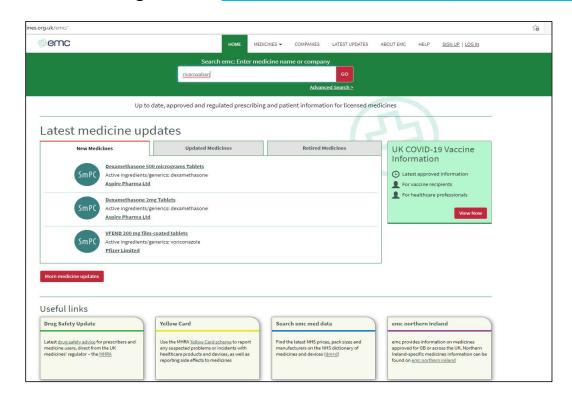
- once a day a missed dose should be taken as soon as it is remembered.
- twice a day a missed dose can be taken if it is within six hours after it was due, otherwise it should be omitted, and the next dose taken at the usual time.





#### General guidance on actions to take following a missed dose

1) Refer to the **Patient Information Leaflet** (PIL). PILs are provided with the medication, they can also be found on the following website <a href="https://www.medicines.org.uk/emc/search">https://www.medicines.org.uk/emc/search</a>.







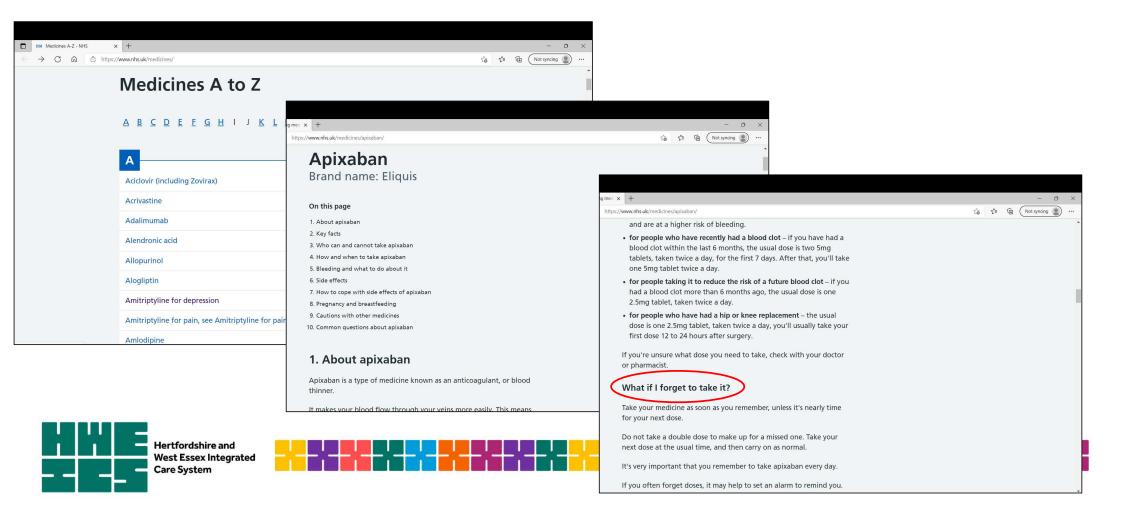




#### General guidance on actions to take following a missed dose



2) If the information is not provided within the PIL, check the NHS website <a href="https://www.nhs.uk/medicines/">https://www.nhs.uk/medicines/</a>.



#### General guidance on actions to take following a missed dose

- 3. If the information is not provided within the PIL or the NHS website, use the following general guidance:
  - For medicines that are prescribed as once or twice a day:
    - Give the dose as soon as it is remembered/ available as long as the next dose is not due within a few hours, and then continue as normal
    - Seek further advice from the prescriber, practice pharmacist or community pharmacist if you are not sure
      what this means in the situation you are dealing with
  - For medicines that are prescribed more frequently throughout the day:
    - It is usually advised to omit the missed dose, wait until the next dose is due, then continue as normal. For example, this may apply to an antibiotic or painkiller taken three or four times a day
- 3) If further guidance is needed, contact a healthcare professional can include a GP, pharmacist or nurse practitioner.

A missed dose should never be doubled at the next medication time – this could be harmful.





# **Recording delayed doses**

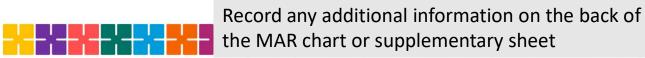
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# **Recording delayed doses**

#### **Back of MAR chart**

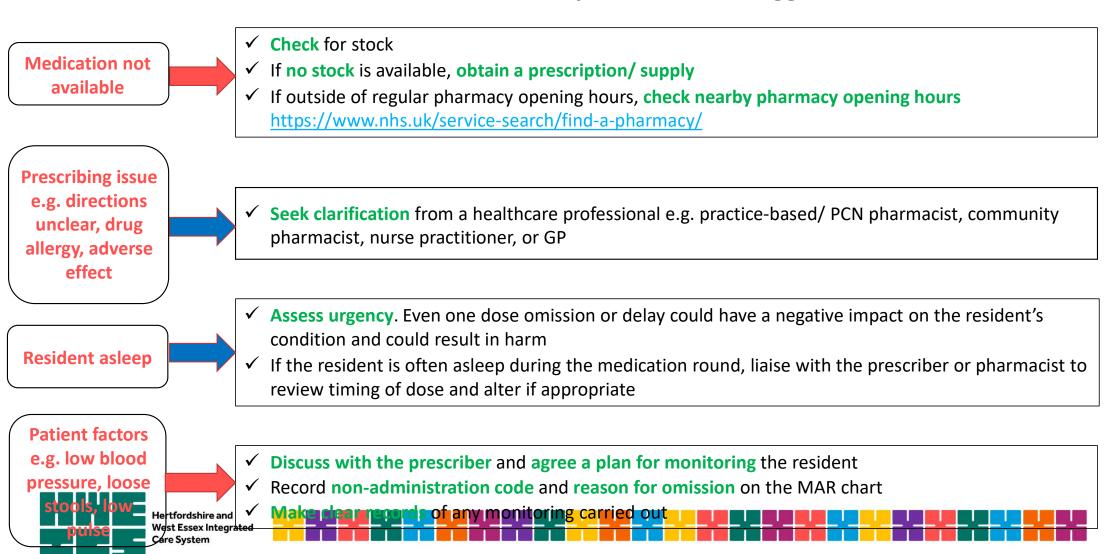
Date	Time	Medication	Dose	Comment	Ou	tcome	Signature
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23.11.21	08:00	Apixaban	5mg	Winne was aslee 8am medication	 Mo adr	nnie woke up at 10.15. rning dose was ninistered at 11am. R chart signed.	FE







### Common reasons for missed & delayed doses and suggested actions



#### Common reasons for missed doses and suggested actions

Swallowing difficulty

- ✓ Liaise with the prescriber to assess whether the medication is still indicated and required. If so:
  - Check if the formulation is consistent with any Speech & Language Therapy recommendations
  - If the resident cannot comfortably swallow the tablet/ capsule, consult the prescriber or pharmacist. Some tablets/ capsules are harmful if crushed/ opened
    - · HVCCG Guidance on crushing tablets or opening capsules in a care home setting
    - HVCCG Medication Risk Assessment Form for residents with swallowing difficulties
    - ENHCCG Guidance on crushing tablets or opening capsules in a care home setting

Refusal of medication

- ✓ Establish reason and if there is a pattern of refusal
- ✓ Try returning after a short interval. May not be appropriate in all cases e.g. if refusal is linked to a side effect
- ✓ Discuss with the prescriber
- ✓ Record circumstances and reason/s for refusal in the care plan and MAR chart.
- ✓ Follow the principles of the Mental Capacity Act



#### **Preventing missed doses – good practice recommendations**

# Medicines reconciliation

- Complete this process for all residents transferred from another care setting/ place of residence
- The following information should be available on the day that a resident transfers into a care home:
  - Full details of medicines including strength, dose, form, timing, frequency, route, indication
  - Medication changes
  - Date & time of last dose

# Administration of medicines

- Plan for medicines which have to be given at specific times e.g. in relation to food, time-specific medicines
- Be aware of PRN medicines timings will not fit in with the standard medicines round
- Keep a running balance tally on the MAR chart (particularly original packs)
- Sign the drug chart immediately after administration do not leave this task until the end of the meds round
- If the medicine is omitted, enter non-administration code on the MAR & make a record in care plan/ MAR chart

# Shift handover

- Discuss any missed or delayed doses, and any outstanding actions
- If the timing of a medicine has been changed, communicate this with other colleagues





#### **Preventing missed doses – good practice recommendations**

# Ordering and receipt

- During the monthly medicines ordering process:
  - Allow plenty of time to order prescriptions
  - Check prescriptions or prescription tokens against the medication order, before medicines are dispensed
  - Allow plenty of time before the start of the next medication cycle, to check the supplied medication against
    the original order, and the MAR chart. If a medication is missing from the MAR chart and/or not received in the
    delivery, do not assume it has been discontinued. Check with the GP practice or community pharmacy.
- Medicines started or changed mid-cycle:
  - If the prescription is sent electronically to the pharmacy, inform the pharmacy
  - For monthly prescriptions, check that the quantity prescribed/issued is synchronised with the medication cycle

#### **Audit**



- Conduct regular audits
- Develop & implement action plans
- Share learning

Hertfordshire and West Essex Integrated Care System



### Dealing with errors and incidents relating to missed and delayed doses

#### **Examples of scenarios which do not trigger raising a safeguarding concern:**

- **Gap in recording** e.g. signature is missed on the MAR chart, but your investigation concludes that the medicine was correctly administered, **no harm has occurred**, appropriate action has been taken with the member of staff concerned and recorded this
- Medication is not given on one occasion e.g. the resident does not receive prescribed medication (missed dose) on one occasion,
  a suitably qualified professional is consulted and no harm occurs. Appropriate action has been taken with the member of staff
  concerned and recorded this
- Medication is not given on more than one occasion and no harm occurs e.g. recurring missed medication identified through observation or audit, a suitable qualified professional is consulted and no harm occurs. Swift action is taken through training, supervision. You monitor the situation closely until poor practice has been corrected. The incident has been recorded and action taken/advice given
- Medication was given late e.g. an unforeseen event meant that some people received their medication later than scheduled, you have checked to ensure that no medication was time-sensitive and no harm has occurred, you have recorded the incident and action taken/ advice given





#### Dealing with errors and incidents relating to missed and delayed doses

#### **Examples of scenarios which would trigger raising a safeguarding concern:**

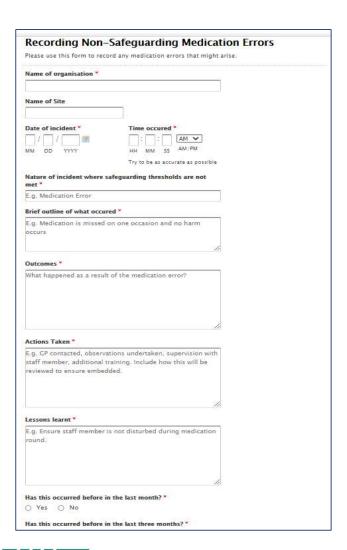
- Consecutive/ multiple medication incidents involving the same resident e.g. prescribed medication is not administered over more than one round because it has not been ordered or collected
- Single medication incident involving multiple residents e.g. a whole medication round is missed or delayed
- Potential, moderate or severe harm resulting from medication delay or omission

#### **Reporting errors & incidents**

If an error or incident results in an omitted or delayed dose, seek appropriate medical advice, and report the error/incident in line with the <a href="Hertfordshire Medication Errors and Safeguarding Guidance">Hertfordshire Medication Errors and Safeguarding Guidance</a> (the guidance also includes a link for the <a href="Provider">Provider</a> Form, which should be used for recording non-safeguarding errors).







Non-safeguarding medication error form can be found via the Hertfordshire Medication Errors and Safeguarding Guidance.





#### Resources

- Herts Valleys CCG & East and North Herts CCG Guidance <u>Reducing Harm from Omitted and Delayed</u> <u>Medicines</u>
  - To access from HVCCG page, see <u>link</u>
  - To access from ENHCCG page, see <u>link</u>
- CQC guidance Time sensitive medicines
- Hertfordshire Medication Errors and Safeguarding Guidance





# **Any Questions?**



