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# ***MIMS***

# ***Integrated***

# ***Toniq***

## ***User Guide***



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## INTRODUCTION

*MIMS Integrated (Toniq)* is a medicine information resource owned by MIMS New Zealand Limited (formerly UBM Medica Limited). It is part of a fully referenced global medicines database kept up to date by editorial staff in several countries and localised for use within New Zealand.

Your MIMS Integrated subscription includes Access to two MIMS products – MIMS Drug Alert and MIMS Abbreviated Medicine Information (Quick Reference Information).

Toniq's dispensary program has read-only access to this database and is able to extract, for licenced users, the data that MIMS Integrated provides.

Any enquiries regarding the editorial content of the MIMS database should therefore be reported to MIMS New Zealand on 0508 646 769.

## MIMS INTEGRATION IN TONIQ

The integration of the MIMS database in Toniq is at three levels:

1. To provide on demand information, such as Quick Reference prescribing reference information, available from the medicine lookup and prescription entry screens.
2. To provide on screen, automatic, interactive alerts about medicine to medicine in patient history interactions, at the point of medicine selection for prescription entry. Specific care has been taken to avoid both disruptive repetitive alerts, and irrelevant alerts with topical medicines, both of which desensitise the pharmacist to important information.
3. To provide automatic printed alerts about medicine to medicine in patient history interactions, for use at the prescription checking and packing stage. These are generated on the dispensary label and optionally on a check label.

*There is full online help available accessed by pressing **F1** on relevant screens.*

## SETUP

1. *Registration*      So the Toniq program recognises you as an authorised MIMS user.
2. *Installation*      To download the MIMS database for access in Toniq.
3. *Customise*      To tailor how you want to use MIMS.

**NB:** *If these three steps have not been done your MIMS may not work at all or it may show you only part of the information you are registered to see.*

## 1. REGISTRATION

MIMS Integrated (Toniq) is a chargeable feature of the Toniq Dispensary system. Pharmacies wishing to use it should contact MIMS New Zealand on 0508 464 676 to subscribe. Once a subscription is purchased Toniq will register the pharmacy.

### UPDATE THE REGISTRATION IN THE TONIQ DISPENSARY PROGRAM

Go to:

#### 7. Administration

#### 4. Registration

1. Press **F4 Check I/net.**
2. Then press **Y** for **Yes** to acknowledge registration successfully downloaded.
3. Scroll down the **Options** area of the registration screen to check **MIMSPILs** and **MIMSPointOfCare** have changed from **No** to **Yes**. If not, ring Toniq on **03 347 0196**.
4. Press **F12 Accept Details**.

## 2. INSTALLATION

For MIMS Integrated to be installed at the pharmacy the MIMS files need to be downloaded. This can be done from any workstation.

### DOWNLOAD MIMS FILES

Go to:

#### 7. Administration

#### 3. Updates and downloads

#### 1. Download/check medicine files

| ESC                                       | F1 Help                                  | (AS) Add Load price lists from Toniq | Mon 14/03/2016 10:53am | TONIQ     | WIN         |
|-------------------------------------------|------------------------------------------|--------------------------------------|------------------------|-----------|-------------|
| Maint P/L                                 | Add P/L                                  | Check I/Net                          | Select Newer           | Un Select | Dn/Ld Files |
| F2                                        | F3                                       | F4                                   | F5                     | F6        | F7          |
| Sort                                      |                                          |                                      |                        |           |             |
| Other                                     |                                          |                                      |                        |           |             |
| Accept Details                            |                                          |                                      |                        |           |             |
| F12                                       |                                          |                                      |                        |           |             |
| Green = Newer file available for download |                                          |                                      |                        |           |             |
| Black = File available but not in use     |                                          |                                      |                        |           |             |
| Blue = File downloaded                    |                                          |                                      |                        |           |             |
| D/Ld                                      | File description                         | Available                            | On computer            |           |             |
| <input type="checkbox"/>                  | drugIDNZ Photos                          | 21/02/16                             | 21/02/16               |           |             |
| <input checked="" type="checkbox"/>       | MIMS file. (Broadband Users ONLY)        | 26/02/16                             | 26/02/16               |           |             |
| <input type="checkbox"/>                  | Medicine Update Mar 2016                 | 01/03/16                             | 01/03/16               |           |             |
| <input type="checkbox"/>                  | Note Templates (LTC Evaluations etc)     | 26/11/15                             | 26/11/15               |           |             |
| <input type="checkbox"/>                  | PWL Bay of Plenty Dispensary Outers List | 01/03/16                             | 01/03/16               |           |             |
| <input type="checkbox"/>                  | CDC Dispensary Outers List               | 01/03/16                             | 01/03/16               |           |             |

1. Press **F4 Check I/Net.**
2. Tick the box beside **MIMS file. (Broadband Users ONLY)**.
3. Press **F7 Dn/Ld Files** to download the MIMS files.
4. Then press **F12 Accept Details**.
5. Exit out of Toniq and re-open to ensure access to the MIMS files.

### 3. CUSTOMISE

#### TURN ON MIMS INTERACTIONS

Go to:

#### 7. Administration

##### 1. Setup

##### 5. General Options

1. Press **F11 Next Page** three times.
2. Tick **Use MIMS Interactions**.
3. The Licence Agreement will be displayed which you need to **F12 Accept**. This agreement can be printed.

(If a *MIMS is not available* message is displayed, check the MIMS files have been downloaded and the pharmacy is registered).

If **Use MIMS Interactions** is not ticked, full functionality will be compromised but some parts of MIMS, such as the Quick Reference Information, may still be available to the user.

#### SPECIFY THE LEVEL AND FREQUENCY OF INTERACTION WARNINGS

Pharmacies generally do not want to be warned of potential interactions every time a medicine is dispensed, especially if the patient has been having these medicines regularly and the risk has already been considered. So the Toniq program suppresses the interaction warning where the patient's medicine history has not changed.

However there are two overrides possible to this general processing rule. When the doctor prescribing a particular patient's medicine is different to the prescriber of medicine previously taken and/or where the pharmacist (or locum) dispensing the medicine is different to the pharmacist who dispensed the medicine previously.

Tick either or both of these options if these overrides are required:

##### Re-show interactions if pharmacist changes

##### Re-show interactions if doctor changes

Change of pharmacist is determined by logon. If the system is not setup for security then this option cannot work.

**MIMS interactions**

Use MIMS Interactions ☒

Re-show interactions if pharmacist changes ☐

Re-show interactions if doctor changes ☒

Print to Medsafe printer (otherwise Report printer) ☐

Check held Rx's for interactions ☒

Suppress topical vs. systemic intolerances ☐

Interactions to show Caution, Minor, Moderate, Se

Documentation Limited, Good, Well Establish

Example ONLY. For maximum interaction warning both settings should be left at ALL.

MIMS printed documentation will automatically print to the *local* workstation **Report** printer (sometimes set to A5), unless the **Medsafe (CMI)** printer (always A4) is selected. Therefore the information could potentially print to A5 from one workstation and A4 from another. If the documentation is to be printed to A4 always, select **Print to Medsafe printer (otherwise Report printer)**.

To check which printers have been selected, go to **7. Administration, 1. Setup, 3. Printer setup**, then **3. Devices** setup:

| ESC | F1 Help | (AS) Edit Printer Setup Pg1 | Mon 14/03/2016 06:06pm |  |  |  |  | TONIQ            | WIN                   |
|-----|---------|-----------------------------|------------------------|--|--|--|--|------------------|-----------------------|
|     |         |                             |                        |  |  |  |  | Next Page<br>F11 | Accept Details<br>F12 |

| Devices Setup |                  |      |     |       |        |                 |                                      |
|---------------|------------------|------|-----|-------|--------|-----------------|--------------------------------------|
|               | Printer          | Left | Top | Width | Height | Font            |                                      |
| Label         | ZDesigner GX420t | 158  | 0   | 700   | 610    | Arial           |                                      |
| Receipt       | ZDesigner GX420t | 0    | 0   | 0     | 0      | Times New Roman |                                      |
| CRC           | Brother A5       | 0    | 0   | 0     | 0      |                 |                                      |
| Report        | Brother A5       | 0    | 0   | 0     | 0      | Times New Roman |                                      |
| Order         | Brother A4       | 0    | 0   | 0     | 0      |                 |                                      |
| A5 Chart      | Brother A5       | 0    | 0   | 0     | 0      |                 | Scale to A4 <input type="checkbox"/> |
| A4 Chart      | Brother A4       | 0    | 0   | 0     | 0      |                 | Size                                 |
| Patient notes | Brother A4       | 0    | 0   | 0     | 0      |                 | 0                                    |
| Medsafe (CMI) | Brother A4       |      |     |       |        |                 |                                      |
| Dosepack      | Brother A4       |      |     |       |        |                 |                                      |

MIMS will check interactions with medicines in a patient's history. To check held prescriptions for interactions also, select the option **Check held Rx's for interactions**.

Press space bar on **Interactions to show**, and again on **Documentation**, to display options to reduce interaction alerts on the Rx entry screen. Suppression is by severity and/or quality/quantity of evidential documentation. Both should be set to *All* for maximum warnings unless you have good reason to dampen the alerts: see the section on *MIMS Information – Packing*.

| INTERACTIONS TO SHOW (SEVERITY)   |                      | DOCUMENTATION                   |
|-----------------------------------|----------------------|---------------------------------|
| All                               | <<<Maximum alert >>> | All                             |
| Caution, Minor, Moderate, Serious |                      | Limited, Good, Well Established |
| Minor, Moderate, Serious          |                      | Good, Well Established          |
| Moderate, Serious                 |                      | Well Established only           |
| Serious only                      | <<<Minimum alert >>> | Well Established only           |

**NB:** **Serious only**, **All** documentation gives all serious interactions no matter how sparse the documentation. **Serious only** and **Well Established** only is the minimum alert setting.

## USING MIMS

### MIMS INFORMATION – REFERENCE TOOL (NO PATIENT HISTORY)

Select a medicine from either **2. Stock Control**, **4. Maintain Medicine**, or from the prescription entry screen.

In the examples that follow, MAREVAN (warfarin sodium 5mg) is used as the medicine.

Press **F11 Next Page** to see the following screen:

| ESC                                                                                           | F1 Help                                                                                      | (AS) Edit Medicine Pg2 | Mon 14/03/2016 11:18am |                 |                  |           | TONIQ           | WIN          |                  |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------|------------------------|-----------------|------------------|-----------|-----------------|--------------|------------------|
| MIMS PILs<br>F2                                                                               |                                                                                              | MIMS INT'ract<br>F4    | Med Info<br>F5         | MIMS QRef<br>F6 | Data Sheet<br>F7 | CMI<br>F8 | Print CMI<br>F9 | Photo<br>F10 | Next Page<br>F11 |
| <b>Medicine information</b>                                                                   |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Usage                                                                                         | For preventing the obstruction of coronary arteries, for thinning the blood                  |                        |                        |                 |                  |           |                 |              |                  |
| Medication purpose                                                                            | 290                                                                                          |                        |                        |                 |                  |           |                 |              |                  |
| Appearance                                                                                    | Medium-sized, Pink, Round, Scored, "DF M5"                                                   |                        |                        |                 |                  |           |                 |              |                  |
| Dispensing note                                                                               | STAT NB: Marevan and Coumadin are NOT interchangeable. LTC - High Risk 1: Anticoagulant CPAM |                        |                        |                 |                  |           |                 |              |                  |
| Prompt <input type="checkbox"/>                                                               |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| No updates for usage/purpose/app <input type="checkbox"/>                                     |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Route of Admin: Oral                                                                          |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Short appearance: med pk rd sc "DF M5"                                                        |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Long appearance: Medium-sized, Pink, Round, Scored, "DF M5"                                   |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Pharmac therap. grp: Blood and Blood Forming Organs/Antithrombotic Agents/Oral Anticoagulants |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
|          |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |
| Medicine purpose for the patient to read.                                                     |                                                                                              |                        |                        |                 |                  |           |                 |              |                  |

**NB: Datasheet and CMI are Medsafe information, NOT MIMS Information.**

The **Usage**, **Medication purpose**, and **Appearance** information are sourced from Medsafe datasheets and maintained by Tonic.

MIMS information is available on the **F2**, **F4** and **F6** function keys.

#### 1. F2 MIMS PILS

MIMS PILs, Patient Information Leaflets, can be printed out to provide patients with information about their medicines. They are designed to be used in conjunction with patient counselling.

To print out the leaflet, press **F9 Print**.

## 2. F4 MIMS INTERACTIONS

MIMS Interactions check for possible interactions between two medicines. In the reference context shown below MAREVAN is current on the screen. When **F4 MIMS INT'ract** key is pressed, the medicine to **Test MIMS Interactions with** is selected.

If either medicine is not in the MIMS database, the program warns the user of this (see image):

**ECOTRIN 650mg EC Tablets**  
**is not in MIMS database and interactions cannot be checked**  
**If drug is NOT listed on the Pharmaceutical Schedule AND**  
**is not a commonly dispensed pack (or is an OTC pack),**  
**check literature or check interaction with another**  
**commonly dispensed pack of the same medicine.**  
  
**Read?**  
**Yes**

If the medicine is present in the MIMS database the screen below is displayed:

|     |         |                        |                        |             |           |
|-----|---------|------------------------|------------------------|-------------|-----------|
| ESC | F1 Help | (AS) View Interactions | Wed 16/03/2016 05:52pm | TONIQ       | WIN       |
|     |         | List/<br>Details<br>F5 |                        | Print<br>F9 | OK<br>F12 |

**Medicine information**  
Usage For preventing the obstruction of coronary arteries, for thinning the blood  
Medication purpose 290

**MAREVAN (WARFARIN)** **Interaction Check** **MIMS**  
INDISPENSABLE

| Interaction                                     | Severity | Documentation | Dispensed |
|-------------------------------------------------|----------|---------------|-----------|
| 1 Has an additive effect with ETHICS ASPIRIN EC | Severe   | Good          |           |

The severity of Interaction is shown, along with the level of support documentation.

The **F5 List/Details** function key is used to drill down to details of the selected interaction:

|     |         |                        |                        |                |             |  |           |     |
|-----|---------|------------------------|------------------------|----------------|-------------|--|-----------|-----|
| ESC | F1 Help | (AS) View Interactions | Mon 14/03/2016 11:57am |                |             |  | TONIQ     | WIN |
|     |         | List/Details<br>F5     | Goto Refs<br>F7        | Goto Top<br>F8 | Print<br>F9 |  | OK<br>F12 |     |

## Interaction Check

### Interaction Details - MAREVAN (WARFARIN) / ETHICS ASPIRIN EC

The drug ETHICS ASPIRIN EC contains the generic component aspirin.

**Interaction**  
The generic warfarin sodium of MAREVAN (WARFARIN) has an additive effect with the generic aspirin of ETHICS ASPIRIN EC

**Precautions**

- Use combination with extreme caution.
- Monitor prothrombin time.
- Adjust dose of drug.
- Monitor INR.

**Interaction Details**  
Coadministration of oral anticoagulants and systemic salicylates may have additive effects on the inhibition of platelet aggregation, resulting in increased risk of bleeding. Episodes of fatal bleeding have been associated with concurrent use of these agents. Additionally, concomitant high-dose aspirin and warfarin was found to prolong prothrombin times (PT). Furthermore, low-dose aspirin is known to cause gastrointestinal bleed. Even though the combination of low-dose aspirin and warfarin may be beneficial in certain patients, it would be prudent to closely monitor for signs of bleeding. Adjust dose accordingly to INR/PT.

**Interaction Classes**

|                    |                                             |
|--------------------|---------------------------------------------|
| MAREVAN (WARFARIN) | Oral anticoagulants (vitamin K antagonists) |
| ETHICS ASPIRIN EC  | Salicylates (systemic)                      |

**Documentation** - Good

**References**

*Journal References*

Am Heart J, Efficacy and safety of combined anticoagulant and antiplatelet therapy versus anticoagulant monotherapy after mechanical heart-valve replacement: a metaanalysis, Cappelleri JC, Fiore LD, Brophy MT et al  
Vol: 130, 3 Pt 1/Sep, Page: 547-52, 1995

**Severity**  
Severe

**Documentation**  
Good

**NB:** If the pharmacy has selected not to see **All** potential Interaction warnings, then the user will be given the option to view interactions at the **Current** severity as set in general options or to view **All** potential interactions.

For the purposes of this guide, the system has been set to view **Caution**, **Minor**, **Moderate**, and **Serious** potential interactions.

**Select severity of MIMS interactions**

**All**

**Current (Caution, Minor, Moderate, Serious)**

As a result the prompt box above is displayed selecting the medicine interactions are to be checked with.

If the prompt is responded to with **A**, then Health Alerts and Drug Alerts would be listed with a severity of **Not Clinically Significant** as well as those with a severity of **Caution**, **Minor**, **Moderate** and **Serious**.

### 3. F6 MIMS QUICK REFERENCE INFORMATION

The Quick Reference Information displays abridged medicine information including:

- Manufacturer
- Precautions
- Therapeutic Group
- Interactions
- Dosages
- Patient Information
- Uses
- Pregnancy Category
- Contraindications
- Sports status

| ESC | F1 Help | (AS) QuickReference | Mon 14/03/2016 12:02pm | TONIQ | WIN |
|-----|---------|---------------------|------------------------|-------|-----|
|     |         |                     | Print                  |       | OK  |
|     |         |                     | F9                     |       | F12 |

## Quick Reference Information



### Marevan

**Generic Ingredients:** Warfarin sodium

**Company:** GlaxoSmithKline  
**Primary Section:** Anticoagulants, antithrombotics  
**Pregnancy Category:** D\* - Drugs which have caused, are suspected to have caused or may be expected to cause an increased incidence of human fetal malformations or irreversible damage. These drugs may also have adverse pharmacological effects. Accompanying texts within product monographs appearing in MIMS Annual should be consulted for further details.  
**Permitted in sport**

**Marevan** (Tablets)  
Warfarin Na; lactose; brown (1 mg), blue (3 mg), pink (5 mg), marked DF/M and strength.  
**Drug Class:** Rx  
**Pack:** 1 mg [100]  
**Pack:** 3 mg [100]  
**Pack:** 5 mg [100]  
**Dose:** May be taken with or without food. Not bioequivalent to other brands. Initially 10-15 mg/day until desired anticoagulation (usually 3-6 days); adjust dose according to INR/PT. Elderly, may require lower maintenance doses. Emergencies: initiate in combination with heparin. Protein C, S deficiency: initiate slowly (without loading dose in protein C deficiency).

**Uses:** Coumarin anticoagulant. Prophylaxis, treatment of coronary occlusion; DVT, PE; peripheral vascular thromboembolic states; mesenteric, retinal thromboembolism. Prophylaxis of thromboembolism following surgery, chronic embolic pulmonary hypertension.

**Contraindications:** Haemorrhagic stroke; clinically significant bleeding; concomitant fibrinolytics (e.g. streptokinase, alteplase); drugs that significantly increase bleeding risk; within 72 hours of major surgery with risk of severe bleeding; < 48 hours postpartum; pregnancy (1st, 3rd trimesters).

**Precautions:** Monitor INR incl every 1-2 days at initiation (ensure heparin discontinued ≥ 6 hours before 1st test); renal insufficiency; adherence difficulty; increased risk of over coagulation, e.g. renal, hepatic disease, severe hypertension (monitor INR more frequently); risk of serious haemorrhage, e.g. recent ischaemic stroke (suspend therapy for 2-14 days), bacterial endocarditis, previous GI bleeding, peptic ulcer, uncontrolled hypertension; cerebrovascular, serious heart disease; risk of falling; anaemia; malignancy; trauma; hyper, hypothyroidism; protein C, S deficiency; CYP2C9, VKORC1 polymorphism; INR > 4; highly variable INR; escalating dosage (suspect warfarin resistance); nephrotic syndrome; acute illness, weight change, diarrhoea, vomiting (adjust dose); altered smoking status incl passive smoking (consider dose adjustment); galactose or fructose intolerance; Lapp lactase deficiency; glucose-galactose malabsorption; sucrose-isomaltase insufficiency; high, chronic heavy alcohol intake; surgery without severe bleeding risk (ensure INR < 2.5); women of childbearing potential; elderly ≥ 65 years; children esp neonates; pregnancy (2nd trimester).

**Adverse reactions:** Haemorrhage incl GI, rectal, cerebral; subdural haematoma; haematemesis; haematuria; pyrexia; hypersensitivity; GI upset; melaena; rash; erythema; ecchymosis; skin necrosis; infarction; alopecia; decreased HCT, Hb; purple toe syndrome; CVA; purpura; pancreatitis; haemothorax; epistaxis (discontinue); hepatic dysfunction; jaundice.

**Interactions:** See Contraindications; haemostasis, clotting, platelet inhibitors, e.g. clopidogrel, sulfinpyrazone, bivalirudin, dabigatran, dipyridamole, heparin and derivatives, fondaparinux, rivaroxaban, glycoprotein IIb/IIIa antagonists (e.g. eptifibatide, tirofiban, abciximab), prostacycline, SSRIs, SNRIs, NSAIDs incl COX-2 inhibitors, aspirin; CYP2C9, 1A2, 3A4 inhibitors, inducers, substrates; amiodarone; propafenone; erythromycin; metronidazole; azole antifungals; capecitabine; erlotinib; paracetamol (prolonged regular use); omeprazole; HMG-CoA reductase inhibitors (excl pravastatin); tamoxifen; disulfiram; fibrates; zafirlukast; allopurinol; methylphenidate; barbiturates; rifampicin; carbamazepine; phenytoin; primidone; OCs; griseofulvin;

The information can be printed using the **F9** function key. This information is intended as a professional reminder. It is not written for a consumer audience.

### MIMS INFORMATION – DISPENSING (WITH PATIENT HISTORY)

The prescription entry screen is where the all-important interactive and automatic MIMS information is presented. As soon as the medicine being dispensed is selected, the program automatically tests the medicine for interactions with other medicines already in the patient's history.

Additional MIMS information is available on demand once any automatic alerts are dealt with. The **F11 Data, MIMS** key gives access to Quick Reference Information and Patient Information Leaflet for the medicine selected (e.g. NARDIL).

**NB:** This **Data** key can also give access to the medicine's Medsafe Datasheet and CMI. The datasheets and consumer medicine information are **NOT** MIMS information.

## 1. QUICK REFERENCE

The prescription entry screen is partially shown below. NARDIL is being dispensed to Frodo Baggins (the patient) and was prescribed by Dr Gandalf Grey.

| ESC            | F1 Help              | (AS) New Rx | Mon 14/03/2016 12:19pm |               |                  |                |                   |              | TONIQ             | WIN |
|----------------|----------------------|-------------|------------------------|---------------|------------------|----------------|-------------------|--------------|-------------------|-----|
| Edit Med<br>F2 | Hold<br>F3           | Stock<br>F4 | Open Diary<br>F5       | Med Log<br>F6 | Show Usage<br>F7 | Flip Med<br>F8 | Edit Orders<br>F9 | Other<br>F10 | Data, MIMS<br>F11 |     |
| Patient/ Rx    | Mr Frodo Baggins     |             |                        |               |                  |                |                   |              |                   |     |
| Rx code        | X4                   | X-A4?       | 19/5/29, M             |               |                  |                |                   |              |                   |     |
| Prescriber     | Dr Gandalf Grey      |             |                        |               |                  |                |                   |              |                   |     |
| Medicine       | NARDIL, 15mg Tablets |             |                        |               |                  |                |                   |              |                   |     |
| Quantity       |                      | SOH 22      |                        |               |                  |                |                   |              |                   |     |

**Select option**

- 1 MIMS Quick Reference Information
- 3 MIMS Patient Information Leaflet
- 5 Medsafe CMI
- 7 Medsafe Datasheet

At this point **F11 Data, MIMS** is available to check MIMS Quick Reference Information and to print out the MIMS Patient Information Leaflet for NARDIL, as well as access to the medicine datasheet and CMI.

## 2. AUTOMATIC INTERACTIONS

When the medicine is accepted, the program checks for interactions between the medicine being dispensed (NARDIL) and any of the medicines in the patient's history, as well on held scripts, if that option has been selected.

| ESC             | F1 Help              | (AS) History grid | Mon 14/03/2016 12:19pm |                     |                  |                |              |              | TONIQ              | WIN           |
|-----------------|----------------------|-------------------|------------------------|---------------------|------------------|----------------|--------------|--------------|--------------------|---------------|
| View/Edit<br>F2 | Owe Supply<br>F3     | Repeat All<br>F4  | Repeat<br>F5           | LTC/ Services<br>F6 | Hide Label<br>F7 | Re-Print<br>F8 | Unhold<br>F9 | Other<br>F10 | Auto Accept<br>F11 | Accept<br>F12 |
| Patient/ Rx     | Mr Frodo Baggins     |                   |                        |                     |                  |                |              |              |                    |               |
| Rx code         | X4                   | X-A4?             | 19/5/29, M             |                     |                  |                |              |              |                    |               |
| Prescriber      | Dr Gandalf Grey      |                   |                        |                     |                  |                |              |              |                    |               |
| Medicine        | NARDIL, 15mg Tablets |                   |                        |                     |                  |                |              |              |                    |               |
| Quantity        | 50                   | SOH 22            |                        |                     |                  |                |              |              |                    |               |

Bag End, Middle Earth  
**NHI .....**  
**86yr** **RxF 10, Rx 10 (19)**

**Conditions** LTC score 7 = A0, L2, O0, HR5 (AC)  
 LTC: Hypertension

| History Grid (by month)         |             |        | Owe/ Status | Mar | Feb | Jan | Dec | Nov | Oct | Sep | Prev |
|---------------------------------|-------------|--------|-------------|-----|-----|-----|-----|-----|-----|-----|------|
| Patient history load days: 1420 |             |        |             | 27  |     |     |     | 20  |     |     |      |
| Diary entries                   |             |        |             |     |     |     |     |     |     |     |      |
| PARACETAMOL+CODEINE             | 500+8mg     | Tablet |             | 360 |     |     |     |     |     |     | 5/15 |
| Warfarin sod. (Marevan)         | 5mg** Pink  | Tablet |             | 100 |     |     |     | 100 |     |     | 8/15 |
| APO-DILTIAZEM                   | 120mg CD    | Capsul |             | 90  |     |     |     | 90  |     |     | 5/15 |
| SIMVA ARROW                     | 20mg        | Tablet |             | 90  |     |     |     | 90  |     |     | 3/15 |
| EFUDIX                          | 5%          | Cream  |             | 20  |     |     |     | 20  |     |     | 5/15 |
| Isosorbide mononitrate          | 60mg CR     | Tablet | 30          | 180 |     |     |     | 180 |     |     | 5/15 |
| Glyceryl trinitrate             | 400mcg/dose | Spray  |             | 250 |     |     |     | 250 |     |     | 5/15 |
| Furosemide                      | 40mg        | Tablet |             | 180 |     |     |     | 180 |     |     | 5/15 |
| ETHICS ASPIRIN EC               | 100mg       | Tablet |             | 84  |     |     |     | 84  |     |     | 8/15 |
| Amitriptyline HCL               | 10mg        | Tablet |             | 90  |     |     |     | 90  |     |     | 5/15 |

Frodo's medicine history grid is shown above. He shows a clear pattern of dispensing with most medicines being dispensed regularly every three months.

NARDIL is being newly dispensed to Frodo. He has not had it before and the program identifies that there is an interaction risk:

|     |         |                        |                        |  |  |             |       |           |
|-----|---------|------------------------|------------------------|--|--|-------------|-------|-----------|
| ESC | F1 Help | (AS) View Interactions | Mon 14/03/2016 12:19pm |  |  |             | TONIQ | WIN       |
|     |         | List/Details<br>F5     |                        |  |  | Print<br>F9 |       | OK<br>F12 |

Patient/ Rx Mr Frodo Baggins  
 Rx code X4 X-A4? 19/5/29, M  
 Prescriber Dr Gandalf Grey  
 Medicine NARDIL, 15mg Tablets

Phenelzine sulphate

### Interaction Check



| Interaction                                       | Severity | Documentation    | Dispensed |
|---------------------------------------------------|----------|------------------|-----------|
| 1 Causes additive toxicity with Amitriptyline HCL | Severe   | Well Established | 27 Feb    |

Note that the **Interaction Check** screen shows the date that the medicines were dispensed – allowing judgement calls to be made on whether the medicine may still be part of the current medication profile.

**F5 List/Details** can be used to see Interaction detail (see page 9).

The alert is cleared with **F12 OK**, and then any applicable warnings are displayed automatically.

### 3. SUPPRESSION OF INTERACTIONS

If aspirin is dispensed to this patient and the doctor on the prescription is Dr Gandalf Grey, there is no warning of a medicine interaction. *However if DR ELROND has written the prescription the following warning is shown:*

|     |         |                        |                        |  |  |             |       |           |
|-----|---------|------------------------|------------------------|--|--|-------------|-------|-----------|
| ESC | F1 Help | (AS) View Interactions | Mon 14/03/2016 04:28pm |  |  |             | TONIQ | WIN       |
|     |         | List/Details<br>F5     |                        |  |  | Print<br>F9 |       | OK<br>F12 |

Patient/ Rx Mr Frodo Baggins  
 Rx code X4 X-A4? 19/5/29, M  
 Prescriber Dr Elf Elrond  
 Medicine ETHICS ASPIRIN EC, 100mg Table

Aspirin

### Interaction Check



| Interaction                                        | Severity | Documentation | Dispensed |
|----------------------------------------------------|----------|---------------|-----------|
| 1 Has an additive effect with Warfarin sod. (Marev | Severe   | Good          | 27 Feb    |
| 2 Reduces effect of Furosemide                     | Moderate | Good          | 27 Feb    |
| 3 Causes additive toxicity with APO-DILTIAZEM      | Moderate | Limited       | 27 Feb    |

The program can be customised to re-show interactions if the prescriber changes (see page 5). Frodo is taking a number of medicines together which have important interactions. However the patient has been taking them regularly and the risk has been assessed already.

This pharmacy has chosen to play safe and setup their system so that if the patient's doctor changes the interactions should be re-assessed. In a similar manner the system can be set to re-show interactions if the dispensing pharmacist changes.

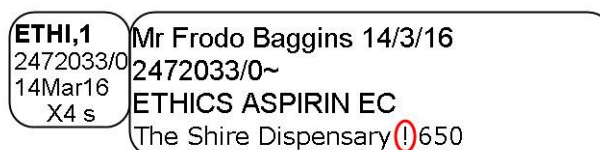
## MIMS INFORMATION – PACKING (LABEL INFORMATION)

### 1. THE 2ND PART DISPENSARY LABEL

Any dispensed medicine that is involved in an Interaction with another medicine in a patient's history will cause an exclamation mark to be printed on the second part label after the pharmacy name.

This will print for **All** interactions, even if the general options filter is set to **Serious Only**.

It also prints for **All** interactions whether or not the Check Label feature is being used.



The **!** on the label is a small alert for the medicine packer – to ask a question or make further investigation as they see fit.

Since the introduction of MIMS in Toniq, a number of pharmacists have suggested that the alerts that come up in the program do not suit their business style.

On further questioning it is generally apparent that the computer work is being done by technicians and the alerts are getting ignored due to their frequency and disruptive nature. The pharmacist is busy handing out the medicine, talking to the patients, and making sure that important points are understood.

If this sounds familiar, then it may be worthwhile to consider the following. Set your system to show fewer but more serious, interactions and turn on the Check Label feature (see below). The computer operators can then be taught that they **MUST** seek advice on interaction alerts which will not be so frequent and therefore not so disruptive. At the same time, the pharmacist handing out the medicine will know of all interactions from the check label and can review the prescription if necessary.

### 2. THE CHECK LABEL FEATURE

This alerts the packer to an interaction (**All** levels) by printing the interaction and its severity on an additional label printed at **End Visit**. The packer passes this to the pharmacist, along with the medicines. It is an opportunity for the right person to consider the interaction information without interrupting work flow unnecessarily. Of course the down side is that the medicine has already been packed and processed so there is more corrective action to substitute or refer back the medicine at this stage.

**NB:** The check label is printed at the **End Visit** and shows **ALL** interactions **IRRESPECTIVE OF THE SEVERITY LEVEL SELECTED** for the program processing.

To set the Check Label feature, go to:

## 7. Administration

### 1. Setup

### 3. Printer Setup

### 2. Label Print Options

Press **F11 Next Page**

Tick both **Print at 'End Visit'** and **Interactions.**

|                                        |                   |                             |
|----------------------------------------|-------------------|-----------------------------|
| <b>*Mr Frodo Baggins</b>               |                   | <b>Visit Rx No. 2472033</b> |
| *ETHICS AS ... Warfarin so ... <1mth   | Interact[5]       |                             |
| *ETHICS AS ... APO-DILTIAZEM 120mg CD  | <1mth Interact[4] |                             |
| *ETHICS AS ... Furosemide 40mg Tablets | <1mth Interact[4] |                             |
| *<br>*<br>*                            |                   |                             |
| Severe                                 | [5]               |                             |
| Moderate                               | [4]               |                             |
| Minor                                  | [3]               |                             |
| Caution                                | [2]               |                             |
| Insignifi ...                          | [1]               |                             |

There is also the option to print out this check information on A5 paper (see image below). If this is desired tick **Use CRC printer.**



**Check Form**

**Mr Frodo Baggins**

Bag End, Middle Earth

Age: 86; 1 Rxs; First Rx Number: 2472033



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**Interactions:**

| Medicine               | Interacts with             | Dispensed      | Severity      | Check |
|------------------------|----------------------------|----------------|---------------|-------|
| ETHICS ASPIRIN EC 100m | Warfarin sod. (Marevan) 5m | 16 days before | <b>SEVERE</b> |       |
| ETHICS ASPIRIN EC 100m | APO-DILTIAZEM 120mg CD     | 16 days before | Moderate      |       |
| ETHICS ASPIRIN EC 100m | Furosemide 40mg Tablets    | 16 days before | Moderate      |       |