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**H2020 Research and Innovation**

## **Deliverable N°: D2.3**

### **Title: Therapeutic recommendations in Dutch, Greek, German, Italian, Slovene and Spanish**

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**Comment:** [e.g. explanation for delay]



## Introduction

Since 2005 the Dutch Pharmacogenetics Working Group (DPWG) of the KNMP has been developing pharmacogenetic guidelines in the Netherlands. These gene-drug interactions are drafted in Dutch and distributed to healthcare professionals by Z-Index. The guidelines are displayed at the secure website *Kennisbank* and available in computer systems through the incorporation in the database *G-Standaard*.

After translation of the guidelines in English, we translated the recommendation texts for the guidelines with therapeutic recommendations (action is needed) to the languages used at the implementation sites. These languages are German, Greek, Slovenian, Spanish and Italian.

The recommendations are translated to German, Greek, Slovenian, Spanish and Italian by the contracted translation agency. The translations are entered into GIMS by the KNMP. They are checked by the implementation sites, since they are the experts in their local language.

For the guidelines with therapeutic recommendations, see the table below.

Action needed in any case	Action needed depending on genotype	No action needed
Abacavir - HLA	Aripiprazole - CYP2D6	Ribavirin -HLA
Contracep. with oestr.-fVL	Haloperidol - CYP2D6	Duloxetine - CYP2D6
Metoprolol - CYP2D6	Atomoxetine - CYP2D6	Glibenclamide - CYP2C9
Zuclopenthixol - CYP2D6	Voriconazole - CYP2C19	Gliclazide - CYP2C9
Phenytoin - CYP2C9	Esomeprazole - CYP2C19	Glimepiride - CYP2C9
Flecainide - CYP2D6	Lansoprazole - CYP2C19	Tolbutamide - CYP2C9
Propafenone - CYP2D6	Omeprazole - CYP2C19	Moclobemide - CYP2C19
Amitriptyline - CYP2D6	Pantoprazole - CYP2C19	Mirtazapine - CYP2D6
Clomipramine - CYP2D6	Rabeprazole - CYP2C19	Carvedilol - CYP2D6
Doxepin - CYP2D6	Imipramine - CYP2C19	Acenocoumarol - CYP2C9
Imipramine - CYP2D6	Sertraline - CYP2C19	Phenprocoumon - CYP2C9
Nortriptyline - CYP2D6	Clopidogrel - CYP2C19	Gefitinib - CYP2D6
Venlafaxine - CYP2D6	Irinotecan - UGT1A1	Risperidone - CYP2D6
Atorvastatin - SLCO1B1	Paroxetine - CYP2D6	Atenolol - CYP2D6
Simvastatin - SLCO1B1	Pimozide - CYP2D6	Bisoprolol - CYP2D6
Citalopram - CYP2C19	Acenocoumarol - VKORC1	Fluphenazine - CYP2D6
Codeine - CYP2D6	Phenprocoumon - VKORC1	Quetiapine - CYP2D6
Escitalopram - CYP2C19	Tamoxifen - CYP2D6	Flupentixol - CYP2D6
Oxycodone - CYP2D6	Warfarin – CYP2C9	Olanzapine - CYP2D6
Tramadol - CYP2D6	Warfarin – VKORC1	Amiodarone - CYP2D6
Efavirenz - CYP2B6		Clonidine - CYP2D6
Flucloxacillin - HLA-B*5701		Disopyramide - CYP2D6
Fluorouracil/capecitabine - DPD		Kinidine - CYP2D6
Azathiopurine/6-MP - TPMT		Methylphenidate - CYP2D6
Tioguanine - TPMT		Prasugrel - CYP2C19
Tacrolimus - CYP3A5		Sotalol - CYP2D6
Tegafur - DPD		Fluvoxamine - CYP2C19
Eliglustat – CYP2D6		Mirtazapine - CYP2C19



Carbamazepin - HLA		Sertraline - CYP2D6
		Ticagrelor - CYP2C19
		Citalopram/escitalopram - CYP2D6
		Fluvastatin - SLCO1B1
		Clozapine - CYP2D6
		Olanzapine - CYP1A2
		Methotrexat – MTHFR
		Quetiapine – CYP3A4
		Fluvoxamine – CYP2D6
		Fluoxetine – CYP2D6
		Clozapine - CYP1A2

Table 1: pharmacogenetic guidelines divided into different categories: action in any case, action needed depending on the genotype and no action needed.

## Results

All recommendation texts in the first column (action in any case) have been translated to the local languages. For the second column (action needed depending on the genotype) we only translated the specific genotype with a therapeutic recommendation. The recommendations for the other genotypes are available as English text to display in the full report.

## Summary/Conclusions

All pharmacogenetic guidelines with a therapeutic recommendation available in 2016 have been translated to German, Greek, Slovenian, Spanish and Italian. For the next years the guidelines will be updated and translated continuously.