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Northern Ireland

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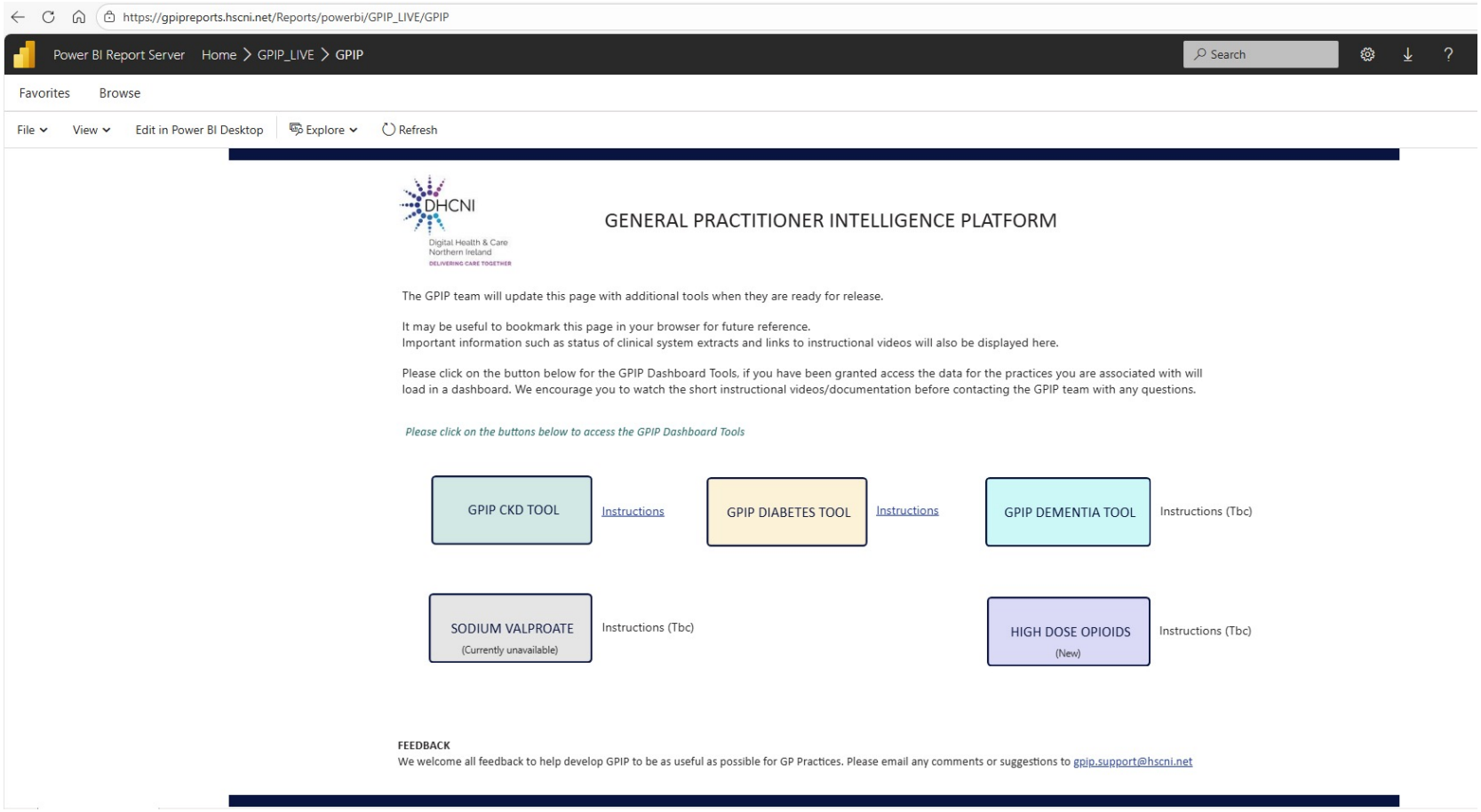


Opioid Dashboard

Dr. Tony Crockford

Entry to Dashboard

https://gpipreports.hscni.net/Reports/powerbi/GPIP_LIVE/GPIP



Identifying High Opioid Dose Patients

- The Oral Morphine Equivalent (OME)
  - A standardised measure used to compare the strength of different opioid medications in terms of the amount of oral morphine that would give the same pain-relief effect.
  - For example:

Drug	OME Equivalent
10 mg of oral oxycodone	20 mg OME
100 mg of oral codeine	10 mg OME

- Two key bands of opioid use have been identified as areas of interest
  - ≥ 90 mg OME per day
  - ≥ 50 mg OME per day

Identifying Opioid Active Ingredients



- Buprenorphine
- Co-codamol
- Codeine
- Diamorphine
- Dihydrocodeine
- Dipipanone
- Ethylmorphine
- Fentanyl
- Hydromorphone
- Meptazinol
- Methadone
- Morphine
- Oxycodone
- Pentazocine
- Pethidine
- Tapentadol
- Tramadol

Opioid Conversion Factors

Data Institute

	Strength_mg	Ingredient	OME_conversion_factor	Days	FORM
52	NULL	Fentanyl	999	999	Transdermal system
53	0.012	Fentanyl	205	3	Transdermal patch
54	0.025	Fentanyl	148	3	Transdermal patch
55	0.0375	Fentanyl	134	3	Transdermal patch
56	0.05	Fentanyl	124	3	Transdermal patch
57	0.075	Fentanyl	133	3	Transdermal patch
58	0.1	Fentanyl	125	3	Transdermal patch
59	NULL	Fentanyl citrate	80	1	Buccal film
60	NULL	Fentanyl citrate	130	1	Infusion
61	NULL	Fentanyl citrate	130	1	Solution for infusion
62	NULL	Fentanyl citrate	130	1	Solution for infusion
63	NULL	Fentanyl citrate	130	1	Solution for infusion
64	NULL	Fentanyl citrate	130	1	Solution for injection
65	NULL	Fentanyl citrate	80	1	Buccal tablet
66	NULL	Fentanyl citrate	80	1	Lozenge
67	NULL	Fentanyl citrate	80	1	Sublingual tablet
68	NULL	Fentanyl citrate	90	1	Spray
69	NULL	Fentanyl citrate	130	1	Solution for infusion
70	NULL	Fentanyl citrate	130	1	Solution for injection

OME Calculation Example

Data Institute

PRACT_NUMBER	Date	Medication	QUANTITY	INGREDIENT	ome_conversion_factor	STRENGTH_mg	STRENGTH_UNIT	DAYS	TOTAL_OME_mg
14686	12/01/2026	BuTrans 5micrograms/hour transdermal patches	4.00	Buprenorphine	100.00	0.005	hour	7.00	336
14686	29/12/2025	Butec 10micrograms/hour transdermal patches	4.00	Buprenorphine	100.00	0.010	hour	7.00	672
14686	22/12/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200
14686	22/12/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200
14686	15/12/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200
14686	05/12/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200
14686	24/11/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200
14686	29/10/2025	Oramorph 10mg/5ml oral solution	100.00	Morphine sulfate	1.00	2.000	ml	1.00	200

First prescription

- BuTrans 5 microgram/hour patch
- Buprenorphine
- used for 7 days per patch
- 4 patches supplied
- OME conversion factor = 100

Calculation

- Buprenorphine
- 0.005 mg x 24 hours x 7 days = 0.84 mg per patch
- 4 patches x 0.84 mg per patch = 3.36 mg for prescription

Oral Morphine Equivalent (OME)

- 3.36 mg Buprenorphine x 100 OME conversion = 336 mg OME for prescription

Opioid Prescription Data

All opioid prescriptions for the last 5 months are extracted from GPIP DWH

Each prescription is assigned :-

- active ingredient
- quantity prescribed
- strength in mg
- unit of strength (eg per tablet / per ml)
- form

In last 5 months:

- 750,000 opioid prescriptions
- 350 different prescription contents
- Over 172,000 different patients

Opioid Methodology

How the Average Daily OME (mg) is calculated

STEP 1: Look back over the last 90 days
We add up all the OME (opioid medicine equivalent) prescribed during the past 90 days.

STEP 2: Calculate a daily average for each day
We:

1. Take the total OME prescribed in the previous 90 days
2. Divide it by 90
   This gives an **average daily dose** for that day.

STEP 3: Repeat this for 30 days
Doing this calculation for each of the last 30 days gives us **30 daily average doses**.

STEP 4: Calculate the final average
We add together these 30 daily averages and divide by 30.

What is shown on the dashboard
The final number is displayed on the dashboard as the **Average Daily OME (mg)**.
It represents a smooth, overall average of daily opioid prescribing, taking into account changes over time rather than just a single day.

Medications Removed for GP Dashboard

- All Methadone hydrochloride products
- Any product in an injection-type form
- All Buprenorphine except the transdermal patch
- All Fentanyl except the transdermal patch

Access to Opioid Dashboard

In order to gain access to Opioid Dashboard we require you to provide:

- Your personal HSCNI.net user name (Windows Log in) e.g. HSCNI\jsmith001
- A screenshot of this web page

  (https://gpipreports.hscni.net/Reports/powerbi/GET_DETAILS/get%20details)

  and email these details to GPIP.SUPPORT@HSCNI.NET

This only has to be done once for a user to gain their access to all dashboards for that practice.

This is your HSCNI Sign on that allows us to:

- recognise the user when they log in to the dashboard
- maintain security that a user only sees their own practice data

Practice managers will need to identify users with permission to view the practice's dashboards.

Questions?



Thank you





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Northern Ireland
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Department of Health
An Roinn Sláinte
Männystrie O Poustie
www.health-ni.gov.uk

HSC Health and Social Care

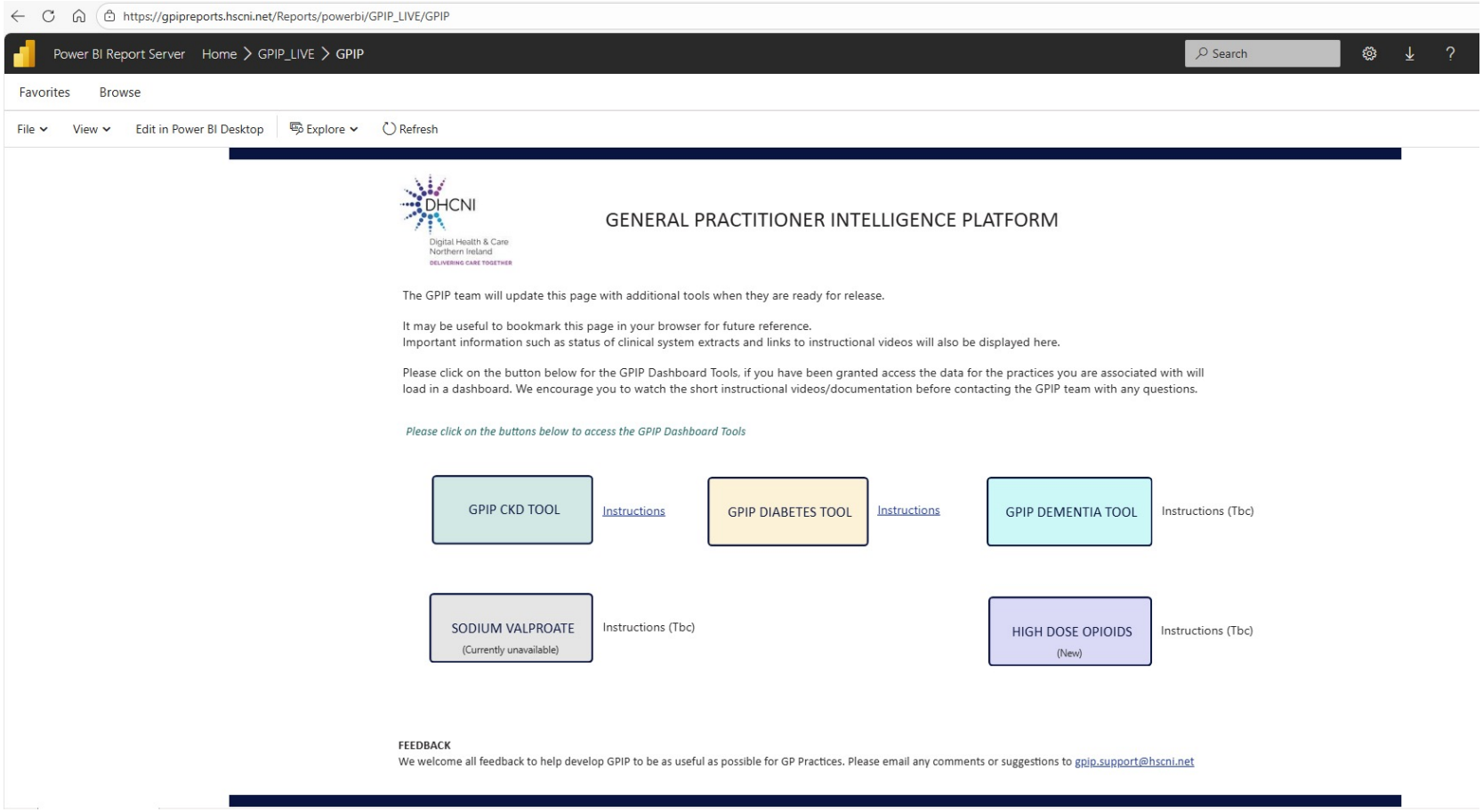
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Dashboard Screenshots

DHCNI

Entry to Dashboard

https://gpipreports.hscni.net/Reports/powerbi/GPIP_LIVE/GPIP



GENERAL PRACTITIONER INTELLIGENCE PLATFORM
HIGH DOSAGE OPIOID DASHBOARD

Data is for Practices Z99998 & Z00604 & Z00075 & Z00623 & Z00114 & Z0020...

Practice
- Z00001
- Z00003
- Z00005

The GPIP High Dosage Opioid Dashboard helps to identify and prioritise high risk patients by using the Average Daily Oral Morphine Equivalent (OME).

This dashboard is to be used as an additional tool to support the usual opioid review processes.

Patients are identified with Average Daily Oral Morphine Equivalent (OME) of >=50 mg, >=90 mg and coded for Palliative Care. The OME thresholds are specified by Faculty of Pain Medicine Opioids Aware | Faculty of Pain Medicine

High Dose Opioid Patients	Patients with High Opioid Usage

For additional information:

Opioid Drugs	List of Opioid drugs used
Opioid OME Calculation	How the OME (mg) is calculated
Opioid Avg OME Calculation	How the average OME (mg) is calculated

FEEDBACK

We welcome all feedback to help develop GPIP to be as useful as possible for GP Practices. Please email any comments or suggestions to gpip.support@hscni.net


GPIP
Tool to Help Identify Patients Prescribed Opioids
Patient ID Number
Average Daily OME (mg)
Band
Latest prescription
Last_Palliative
No Quantity Medications
1042 196 17/04/2026
12251 167 03/04/2026
13985 163 25/03/2026
6217 159 08/04/2026 30/12/2025
16125 120 15/04/2026
1347 92 08/04/2026
2987 88 08/04/2026
668 81 30/03/2026
7097 80 23/03/2026
16534 80 13/04/2026
OME_Band
<50
>50
>90
888
PATIENTS
Demo
P117
P127
P268
P621
P626
Lower OME cutoff
0
964
Data is for Practices Z00080
Medications Included in Calculation
Patient ID Number
Date
Medication
QUANTITY
INGREDIENT
OME_conversion_factor
STRENGTH_mg
STRENGTH_UNIT
DAYS
TOTAL_OME_mg
13851 17/04/2026 Dihydrocodeine 30mg tablets 112 Dihydrocodeine tartrate 0.10 30.000 1.00 336
13851 17/04/2026 Longtec 5mg modified-release tablets 56 Oxycodone hydrochloride 2.00 5.000 1.00 560
12536 17/04/2026 Butec 10micrograms/hour transdermal patches 4 Buprenorphine 100.00 0.010 hour 7.00 672
73 17/04/2026 Co-codamol 30mg/500mg tablets 100 Codeine phosphate 0.10 30.000 1.00 300
1042 17/04/2026 Morphine sulfate 10mg/5ml oral solution 300 Morphine sulfate 3.00 2.000 ml 1.00 600
1042 17/04/2026 Zomorph 30mg modified-release capsules 120 Morphine sulfate 1.00 30.000 1.00 3600
5288 17/04/2026 Butec 10micrograms/hour transdermal patches 4 Buprenorphine 100.00 0.010 hour 7.00 672
Medications with No Quantity - Not Included in Calculation
Patient ID Number
Date
Medication
INGREDIENT
4142 11/12/2025 Co-codamol 30mg/500mg tablets Codeine phosphate
Data Institute
Analytics & Insight
Last refresh date:
22 April 2026

GENERAL PRACTITIONER INTELLIGENCE PLATFORM
HIGH DOSAGE OPIOID DASHBOARD

Practice
- Z00001
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Identifying Opioid Active Ingredients

- *Buprenorphine**
- Co-codamol
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- Diamorphine
- Dihydrocodeine
- Dipipanone
- Ethylmorphine
- *Fentanyl**
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- Meptazinol
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- Morphine
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- All Methadone hydrochloride products
- Any product in an injection-type form
- All Buprenorphine except the transdermal patch
- All Fentanyl except the transdermal patch

NICE: https://www.nice.org.uk/guidance/NG193

NI Formulary: https://niformulary.hscni.net/formulary/4-0-central-nervous-system/4-7-analgesics/4-7-b-chronic-non-malignant-pain/

GENERAL PRACTITIONER INTELLIGENCE PLATFORM
HIGH DOSAGE OPIOID DASHBOARD

Practice
- Z00001
- Z00003
- Z00005

OME Calculation Example

ITEM	DETAILS
Duration	7 days
Ingredient	Buprenorphine
OME Conversion Factor	100
Prescription Issued	BuTrans 5 microgram (0.005 mg) / hour patch
Quantity Supplied	4 patches

ITEM	CALCULATION	RESULT
Per Patch	0.005 mg x 24 hours x 7 days	0.84 mg
Per Prescription	0.84 mg x 4 patches	3.36 mg
Total OME	3.36 mg x 100 OME Conversion Factor	3363 mg

Majority conversion factors based on NI Opioid Equivalence Guide

GENERAL PRACTITIONER INTELLIGENCE PLATFORM
HIGH DOSAGE OPIOID DASHBOARD

Practice
- Z00001
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- Z00005

How the Average Daily OME (mg) is calculated

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What is shown on the dashboard
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GPIP

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What is GPIP?

Intelligence Platform will:

- Provide a single, integrated view of GP practice data – Practice and Patients details, Observations, Medications etc
- Allow visualization for both individual patients and a GP practice as a whole.
- Provide the ability for GP practices to avail of analytical support to enable data quality in practice, improving the quality of service delivery.

How is GPIP data used:

- Improving patient care and management - Identifying gaps in care, what interventions have been made, what treatments are overdue or pending, and more.
- Improve the planning and commissioning of efficient, effective and value for money services

Decision making and planning of services:

- Creates a platform that can be utilised to enable data driven care planning solutions across the HSC

GPIP – GP Intelligence Platform



All GP practices in Northern Ireland are included in GPIP – 300+

2.2 Billion rows of data, 1.5 Billion observations and 748 Million medication records.

4.2 Terabytes of data in the EMIS and Vision Original Data Stores

GPIP has evolved into a platform which is capable of performing complex analysis to quickly answer questions such as:

- Identify patients at risk from prescribed medications e.g. Sodium Valproate and risk with pregnancy
- Weekly analysis of patients presenting with flu like illness or acute respiratory infection
- nMABS GPIP work, identified patients within each practice suitable for nMABS treatment, saving practice staff having to build complex searches
- Provide regional data sets for any disease area giving a foundation for future developments and research. Including improving on current co-morbidity analysis

GPIP Opioid Dashboard

Data Request

This is a high risk area which has been prioritised nationally by NICE, RCGP, Public Health bodies among others and locally by DoH and HSCQI.

1. Opioids are very good analgesics for acute pain and for pain at the end of life but there is little evidence that they are helpful for long term/chronic non cancer pain. The majority of opioid prescribing is for this type of pain.

2. The risk of harm increases substantially at doses above an oral morphine equivalent (OME) of 90mg/day, but there is no increased benefit: tapering or stopping high dose opioids needs careful planning and collaboration.

3. Opioids are also associated with risks at lower doses. Opioid risks also increase in combination with another opioid or sedating medicines such as gabapentinoids/benzos

4. It is difficult to identify patients on a OME dose of >90mg/day,

5. Work has already commenced by GPIP team in developing a suitable indicator. It is important that this work is not lost

6. Northern Ireland is the highest opioid prescriber (items) in the UK.

Additional information

Opioid SQL Function

Function to produce the expanded Opioid code cluster list

```
exec [dbo].[SP_115_Med_ListV14]

@List = 'Buprenorphine&Co-
codamol&Codeine&Diamorphine&Dihydrocodeine&Dipipanone&Ethylmo
rphine&Fentanyl&Hydromorphone&Meptazinol&Methadone&Morphine&O
xycodone&Pentazocine&Pethidine&Tapentadol&Tramadol' ,

@Target = '[DBO].[131_OPIOID_QUANTITY]’,

@Search_List = '[dbo].[131_OPIOID_QUANTITY_search_list]'
```

Opioid Medication Detail Example

This returns approx codes

	8500 opioid dm+d codes
DMD	10059911000001106
VPID	35920411000001105
Medication	Tramadol 100mg/2ml solution for injection ampoules
CLUSTER	Tramadol
INGREDIENT	Tramadol hydrochloride
FORM	Solution for injection
ROUTE	Intravenous
STRNT_NMRTR_VAL	50
UNIT	mg
STRENGTH_mg	50
STRNT_DNMTR_VAL	1
STRENGTH_UNIT	Ml
DF_INDCD	1
DOSE_FORM	Discrete
DOSE_PER	2
DOSE_UNIT	ml
UNIT_DOSE_NAME	Ampoule
QTVAL	NULL
TYPE	AMP

Opioid Examples



	DMD	Medication	INGREDIENT	FORM	STRENGTH_mg	STRNT_DNMTR_VAL	STRENGTH_UNIT	TYPE
3238	12875411000001108	Fentalis Reservoir 75micrograms/hour transdermal patc...	Fentanyl	Transdermal patch	0.075	1	hour	AMPP
3239	12875511000001107	Fentalis Reservoir 100micrograms/hour transdermal pat...	Fentanyl	Transdermal patch	0.1	1	hour	AMPP
3240	12881511000001103	Mezolar Matrix 12micrograms/hour transdermal patches	Fentanyl	Transdermal patch	0.012	1	hour	AMP
3241	12881611000001104	Mezolar Matrix 12micrograms/hour transdermal patche...	Fentanyl	Transdermal patch	0.012	1	hour	AMPP
3242	12881711000001108	Mezolar Matrix 25micrograms/hour transdermal patches	Fentanyl	Transdermal patch	0.025	1	hour	AMP
3243	12881811000001100	Mezolar Matrix 25micrograms/hour transdermal patche...	Fentanyl	Transdermal patch	0.025	1	hour	AMPP
3244	12882011000001103	Mezolar Matrix 50micrograms/hour transdermal patches	Fentanyl	Transdermal patch	0.05	1	hour	AMP
3245	12882211000001108	Mezolar Matrix 50micrograms/hour transdermal patche...	Fentanyl	Transdermal patch	0.05	1	hour	AMPP
3246	12882411000001107	Mezolar Matrix 75micrograms/hour transdermal patches	Fentanyl	Transdermal patch	0.075	1	hour	AMP
3247	12882511000001106	Mezolar Matrix 75micrograms/hour transdermal patche...	Fentanyl	Transdermal patch	0.075	1	hour	AMPP
3248	12882611000001105	Mezolar Matrix 100micrograms/hour transdermal patches	Fentanyl	Transdermal patch	0.1	1	hour	AMP
3249	12882711000001101	Mezolar Matrix 100micrograms/hour transdermal patch...	Fentanyl	Transdermal patch	0.1	1	hour	AMPP
3250	1270911000001104	Fentanyl 800microgram lozenges 30 lozenge	Fentanyl citrate	Lozenge	0.8	NULL	NULL	VMPP
3251	1260211000001104	Fentanyl 600microgram lozenges 3 lozenge	Fentanyl citrate	Lozenge	0.6	NULL	NULL	VMPP
3252	1275611000001102	Fentanyl 800microgram lozenges 3 lozenge	Fentanyl citrate	Lozenge	0.8	NULL	NULL	VMPP
3253	1276311000001102	Fentanyl 200microgram lozenges 30 lozenge	Fentanyl citrate	Lozenge	0.2	NULL	NULL	VMPP
3254	134806003	Fentanyl 1.6mg lozenges	Fentanyl citrate	Lozenge	1.6	NULL	NULL	VMP
3255	134807007	Fentanyl 1.2mg lozenges	Fentanyl citrate	Lozenge	1.2	NULL	NULL	VMP
3256	134808002	Fentanyl 800microgram lozenges	Fentanyl citrate	Lozenge	0.8	NULL	NULL	VMP
3257	134809005	Fentanyl 600microgram lozenges	Fentanyl citrate	Lozenge	0.6	NULL	NULL	VMP
3258	134810000	Fentanyl 400microgram lozenges	Fentanyl citrate	Lozenge	0.4	NULL	NULL	VMP
3259	134812008	Fentanyl 200microgram lozenges	Fentanyl citrate	Lozenge	0.2	NULL	NULL	VMP
3260	1313511000001100	Fentanyl 1.2mg lozenges 3 lozenge	Fentanyl citrate	Lozenge	1.2	NULL	NULL	VMPP