

## Abuse-Deterrent Opioids – Evidence Evaluation & Labeling

Medication: Oxaydo® (oxycodone immediate-release tablet)

Evaluation Date: 06/02/2016

Evaluation History: ☒ Initial Version 1.0, or ☐ Version \_\_\_\_\_

Current Product Labeling established: (select one) [☒ Prior to] or [☐ After] publication of FDA Guidance to Industry Document (4/2015)

This is a: (Check all that apply)

- ☐ New product
- ☐ Existing product, new formulation
- ☐ Existing product with new/updated labeling
- ☒ Other: Initial evaluation of existing product

**Product Abuse Deterrent Property Classification:** – Check all that apply

- ☒ Physical / Chemical barrier
- ☐ Agonist / Antagonist combination
- ☒ Aversion
- ☐ Delivery System
- ☐ New Molecular entity or Prodrug
- ☐ Combination (check combined items)
- ☐ Novel Approach

### Product Labeling:

Does the product have FDA abuse deterrent labeling? ☐ Yes or ☒ No Year obtained: \_\_\_\_\_

**Abuse Deterrent Evidence provided.** Summary of in-depth literature review and product evaluation based on FDA Guidance to Industry Document

- ☒ Laboratory-based in vitro manipulation and extraction studies (Category 1)  
Description of Research: Studies not readily available for review; however, NDA review summary concluded procedures and techniques were incomplete in assessing feasibility of preparing an injectable solution.
- ☐ Pharmacokinetic Studies (Category 2)  
Description of Research: \_\_\_\_\_
- ☒ Clinical Abuse potential studies (Category 3)  
Description of Research: Single-center, single-dose, randomized, double-blind, active-controlled two-way crossover study. Intranasal clinical abuse potential with Roxicodone® as active control.
- ☐ Clinical Abuse potential studies (Category 3)  
Description of Research: \_\_\_\_\_
- ☐ Clinical Abuse potential studies (Category 3)  
Description of Research: \_\_\_\_\_
- ☐ Additional Studies / Post Market data which assessed the impact of abuse-deterrent formulation (Category 4)
  - ☐ Post market
    - ☐ Formal studies included recommended study design features (see page 19 FDA Guidance document)

Description of Research: \_\_\_\_\_

☐ Determination if use of product results in meaningful reductions in abuse, misuse, and related adverse clinical outcomes, including addiction, overdose, and death

Description of Research: \_\_\_\_\_

☒ Outcome Measures and Data Interpretation in Abuse Potential Studies

○ Standardized Instruments

☒ Visual Analogue Scales (VAS)

Description of Research: Maximum effect ( $E_{\max}$ ) for Drug Liking, effect at 8 hours ( $E_{8h}$ ) post-dose for Take Drug Again,  $E_{8h}$  for Overall Drug Liking. Nasal effects were also rated on a 6-point Subject Rated Scale.

☐ Profile of Mood States

Description of Research: \_\_\_\_\_

○ Data Interpretation

☒ Primary Analysis

Description of Research: Least squares mean Drug Liking  $E_{\max}$  Oxecta®/Oxaydo® vs Roxycodone® (70.8 vs 93.5, respectively;  $P < 0.0001$ ).

☒ Statistical Analysis

Description of Research: Linear mixed model with fixed effects for sequence, period, and treatment and a random effect for subject nested in sequence. Least squares means for all endpoints analyzed. All reported as  $P < 0.0001$ ; however, FDA biometrics review found significant sequence effect. FDA halved sample size as a result of significant sequence effect and re-tested with Wilcoxon-Mann-Whitney, which revealed no significant differences for any endpoint.

☒ Data and dropout for non-completers

Description of Research: One subject not evaluated due to vomiting after administration of study medication and active control and 21 subjects did not completely administer full dose of Oxaydo.

☐ None of the above

**Strength of Evidence of Abuse Deterrent Properties:**

☐ Evidence is based on physical/chemical property, theoretical assumptions or manufacturer's claims and is not yet supported by scientifically sound outcome data which demonstrates a reduction in the abuse of the product in the community setting compared to levels of abuse, overdose, and death that occurred when only formulations of the same opioid without abuse-deterrent properties were available

☒ Evidence is based on physical/chemical property, clinical abuse potential studies or laboratory manipulation studies and is not yet supported by scientifically sound outcome data which demonstrates a reduction in the abuse of the product in the community setting compared to levels of abuse, overdose, and death that occurred when only formulations of the same opioid without abuse-deterrent properties were available

☐ There is evidence, supported by scientifically sound outcome data, which demonstrates a reduction in the abuse of the product in the community setting compared to levels of abuse, overdose, and death that occurred when only formulations of the same opioid without abuse-deterrent properties were available