

Drug Utilization Patterns for Oxycodone-Containing Analgesics, 2009-2016

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**Joint Meeting of the Anesthetic and Analgesic Drug Products Advisory Committee
and the Drug Safety and Risk Management Advisory Committee**

Outline

- Sales distribution
- Outpatient retail utilization
 - Dispensed prescription data
 - Patient data
 - Prescriber specialties
 - Diagnoses data
- Data limitations
- Summary of findings

Oxycodone-Containing Analgesics*

(including formulations designed to deter abuse)

Immediate-Release Formulations (IR)	Extended-Release Formulations (ER)
<ul style="list-style-type: none"> • Single-ingredient oxycodone IR • Combination oxycodone-containing IR <ul style="list-style-type: none"> ○ Oxycodone/acetaminophen IR ○ Oxycodone/ibuprofen IR ○ Oxycodone/acetylsalicylic acid IR 	<ul style="list-style-type: none"> • Single-ingredient oxycodone ER (OxyContin ER, Xtampza ER, and generic oxycodone ER) • Combination oxycodone/acetaminophen ER

*Troxyca ER (oxycodone/naltrexone) and Targiniq (oxycodone/naloxone) were not analyzed because although FDA approved, they were not marketed in the U.S. during the study time period.

Sales Distribution Data

National estimates of bottles of oxycodone-containing analgesics sold from manufacturers to retail and non-retail channels of distribution in U.S.

	2016		
Product	Retail	Mail-Order/Specialty	Non-Retail
Oxycodone-containing analgesics	67%	<1%	32%

Source: QuintilesIMS, National Sales Perspectives™. Year 2016. Data extracted January 2017.



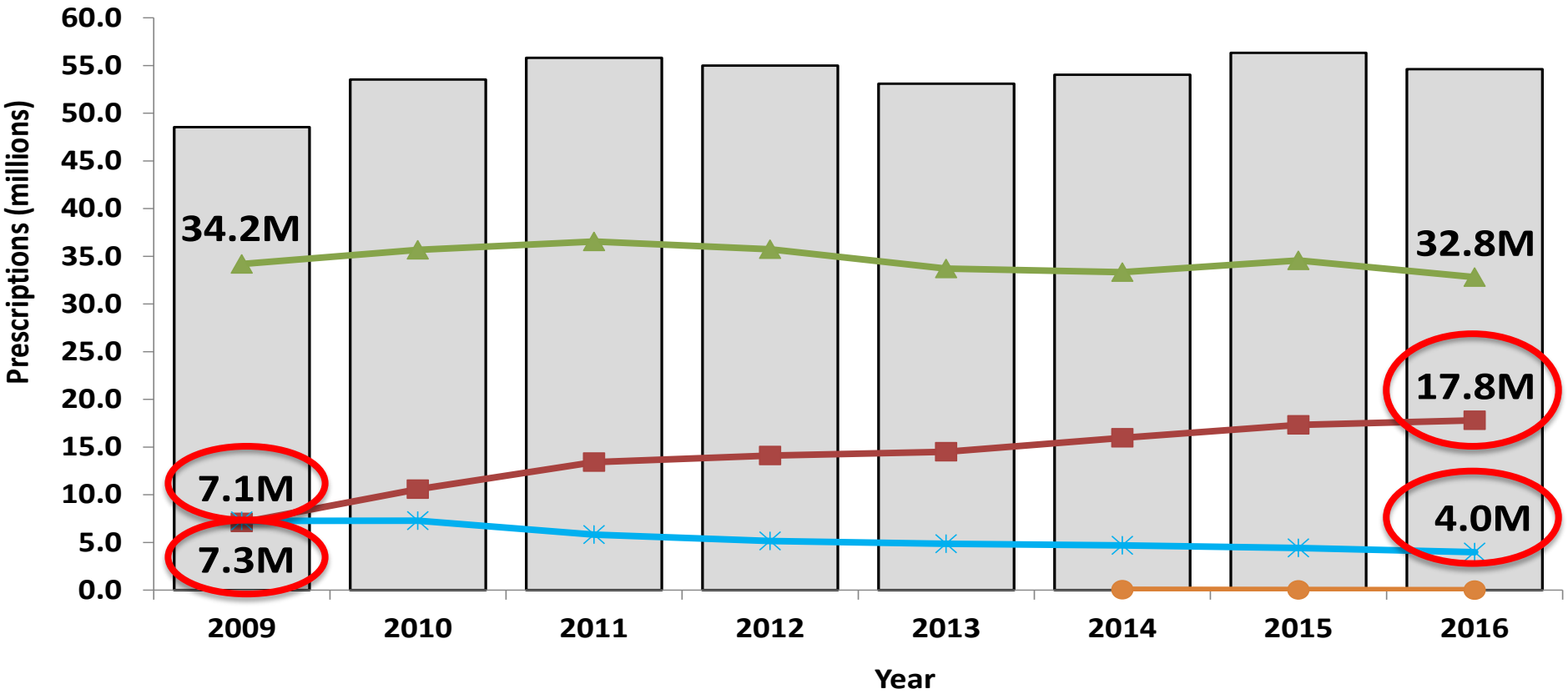
Prescription Utilization Database

- QuintilesIMS, National Prescription Audit™ Database
- Measures prescriptions dispensed from outpatient retail pharmacies to patients
- Data are projected to provide national estimates of utilization

Oxycodone Prescription Data



National estimates of prescriptions dispensed for oxycodone-containing analgesics from U.S. outpatient retail pharmacies



Source: QuintilesIMS, National Prescriptions Audit™. Years 2009-2016. Data extracted January 2017.

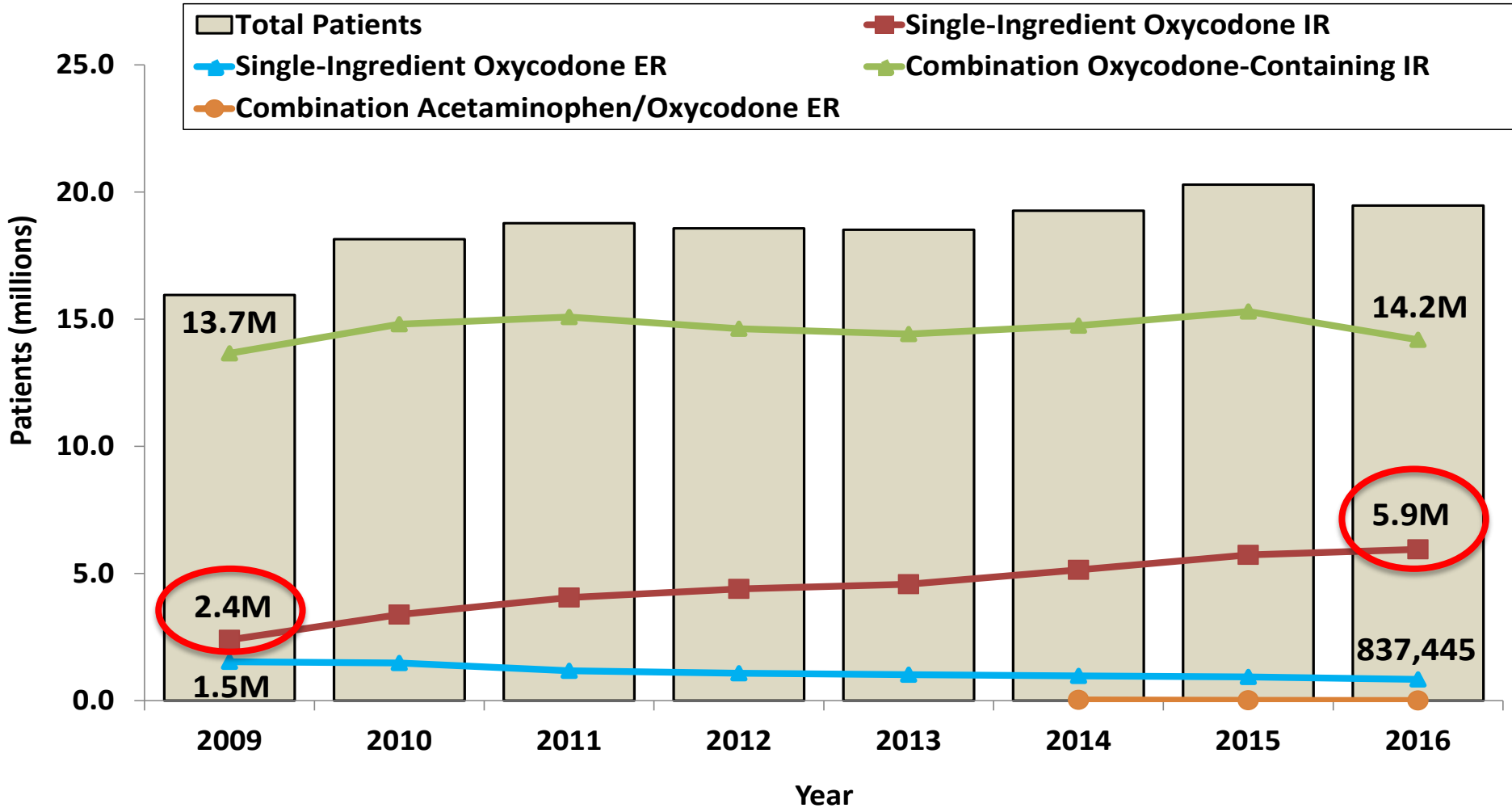
Patient Utilization Database

- QuintilesIMS, Total Patient Tracker™ Database
- Number of unique patients who received prescriptions dispensed from outpatient retail pharmacies
- Data are projected to provide national estimates of utilization

Oxycodone Patient Data



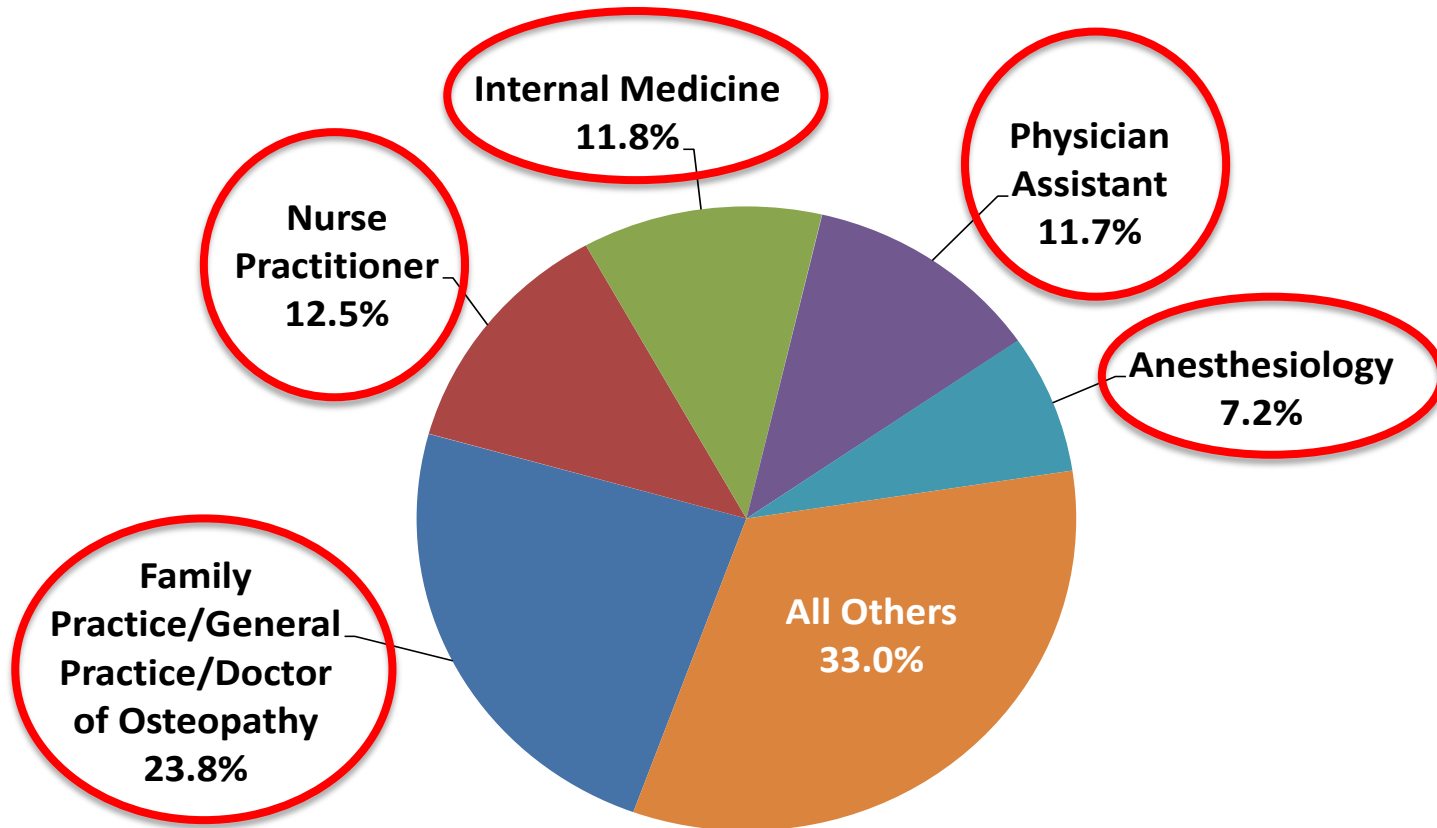
National estimates of patients who were dispensed prescriptions for oxycodone-containing analgesics from U.S. outpatient retail pharmacies



Source: QuintilesIMS, Total Patient Tracker™. Years 2009-2016. Data extracted February 2017.

Top Five Prescriber Specialties

National estimates of outpatient retail prescriptions dispensed for single-ingredient oxycodone IR analgesics by top five prescriber specialties in 2016



Source: QuintilesIMS, National Prescriptions Audit™. Year 2016. Data extracted January 2017.

U.S. Office-Based Physician Survey Data



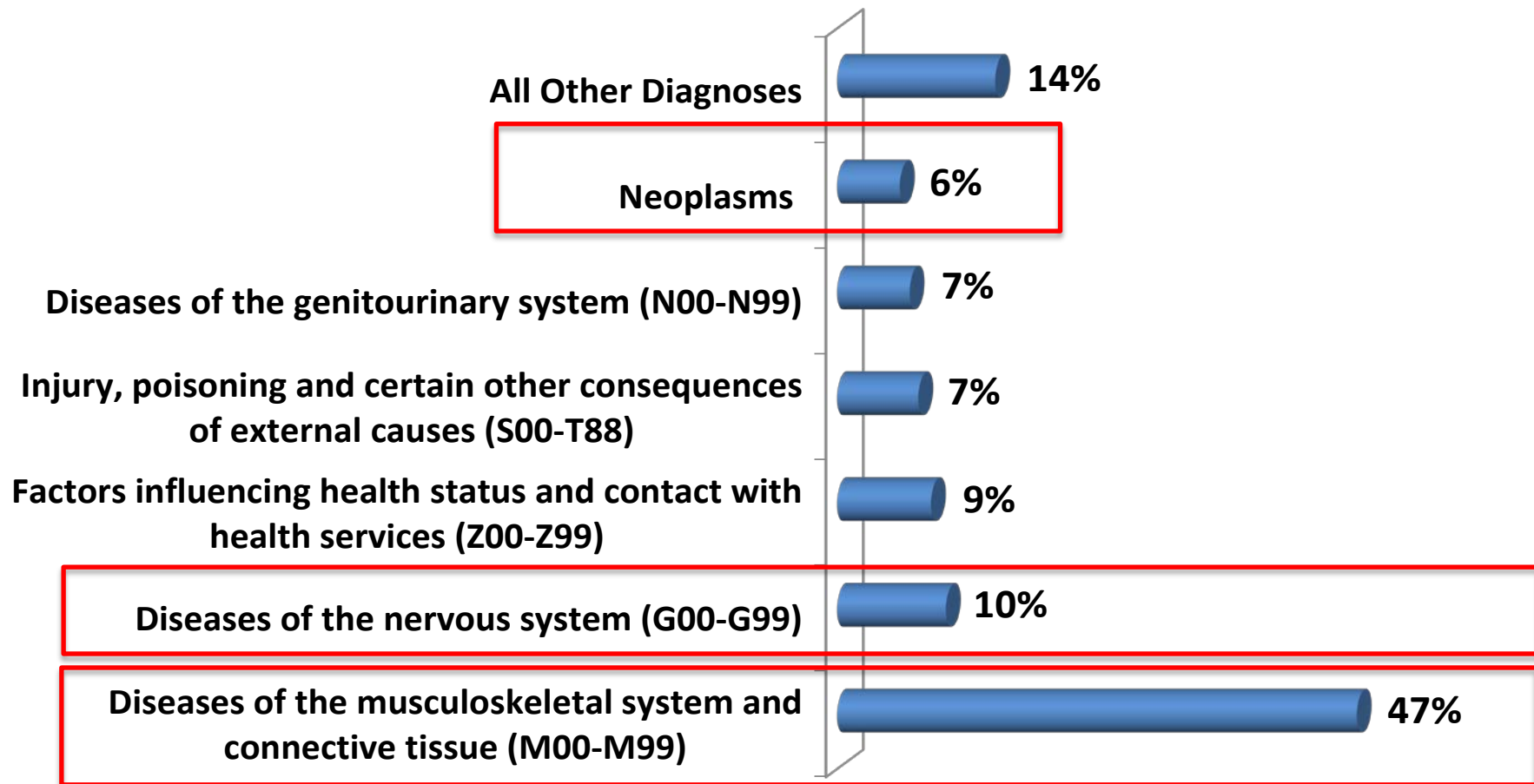
- inVentiv Health TreatmentAnswers™ and TreatmentAnswers™ with Pain Panel
- Monthly survey of 3,200 office-based physicians
- Data are nationally projected to reflect national prescribing patterns
- Data provide insight into prescriber intent

Diagnoses Data



Top groups of diagnoses (ICD-10) associated with the mentions of single-ingredient oxycodone IR analgesics as reported by office-based physician surveys in 2016

Groups of Diagnoses (ICD-10)



Source: inVentiv Health Research and Insights LLC., TreatmentAnswers™ with Pain Panel. 2016. Data extracted February 2017.

Limitations

- No linkage between a dispensed prescription and a diagnosis
- No medical charts available for validation
- Dispensing trends may not apply to non-retail or mail-order/specialty settings
- Office-based physician survey data may not capture diagnosis data from subspecialty prescribers in inpatient or clinic settings, such as oncology clinics
 - A diagnosis mention does not necessarily result in a prescription being generated

Summary

Single-Ingredient Oxycodone IR products:

- Outpatient retail utilization increased from 2.4 million patients in 2009 to 5.9 million patients in 2016
- The top prescribers were primary care physicians, followed by mid-level practitioners
- The top group of diagnoses were conditions related to the diseases of the musculoskeletal system and connective tissue



Thank you