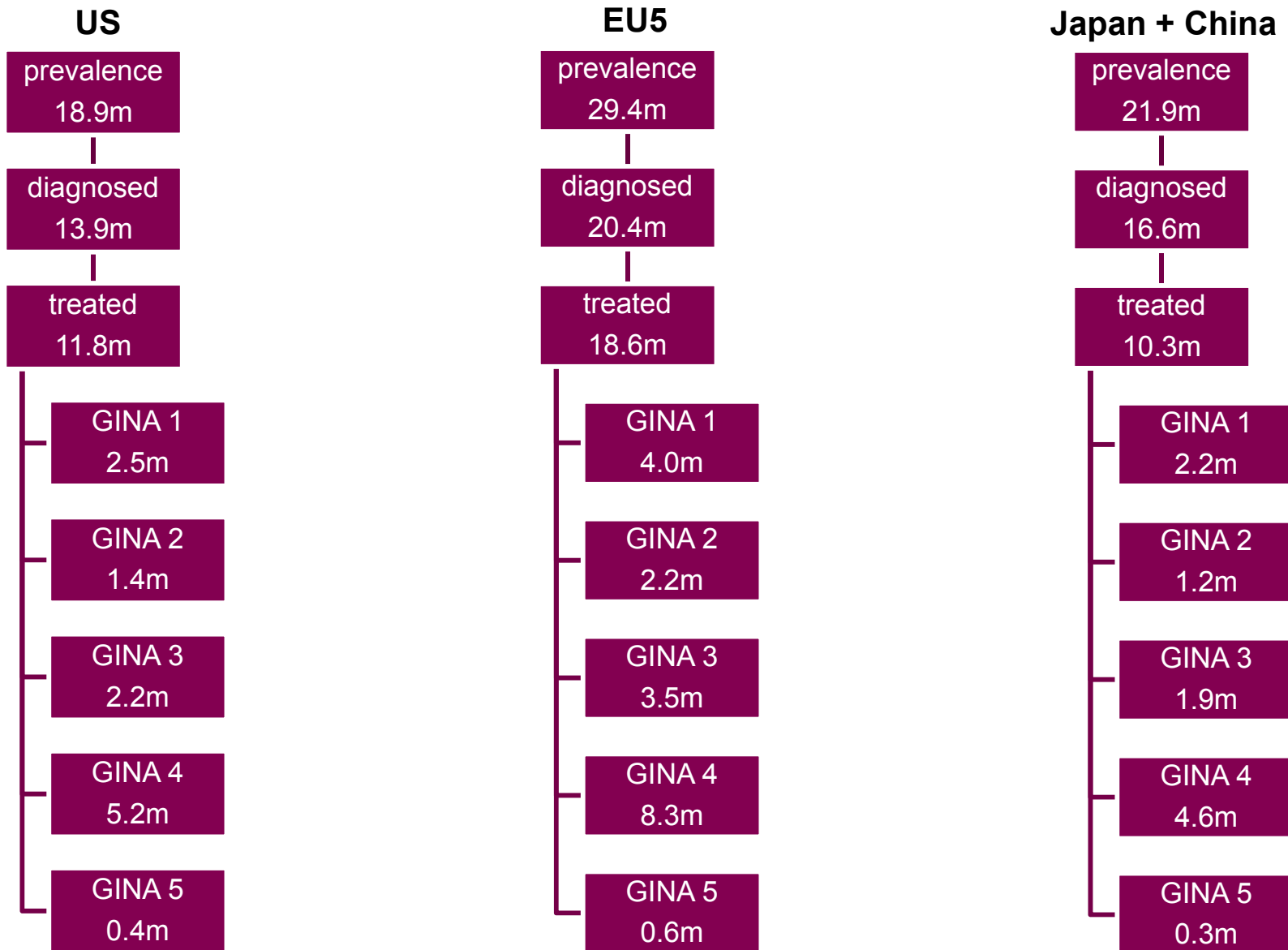


Epidemiology

This Epidemiology appendix contains estimates of patient data for a number of diseases and potential indications relevant for select AstraZeneca in-market products and pipeline projects. All data are based on reliable sources generally recognised and used by AstraZeneca for planning purposes. All numbers are best available numbers as of current time and typically cover the years 2013 and 2014. Copyright© AstraZeneca Investor Relations, November 2014.



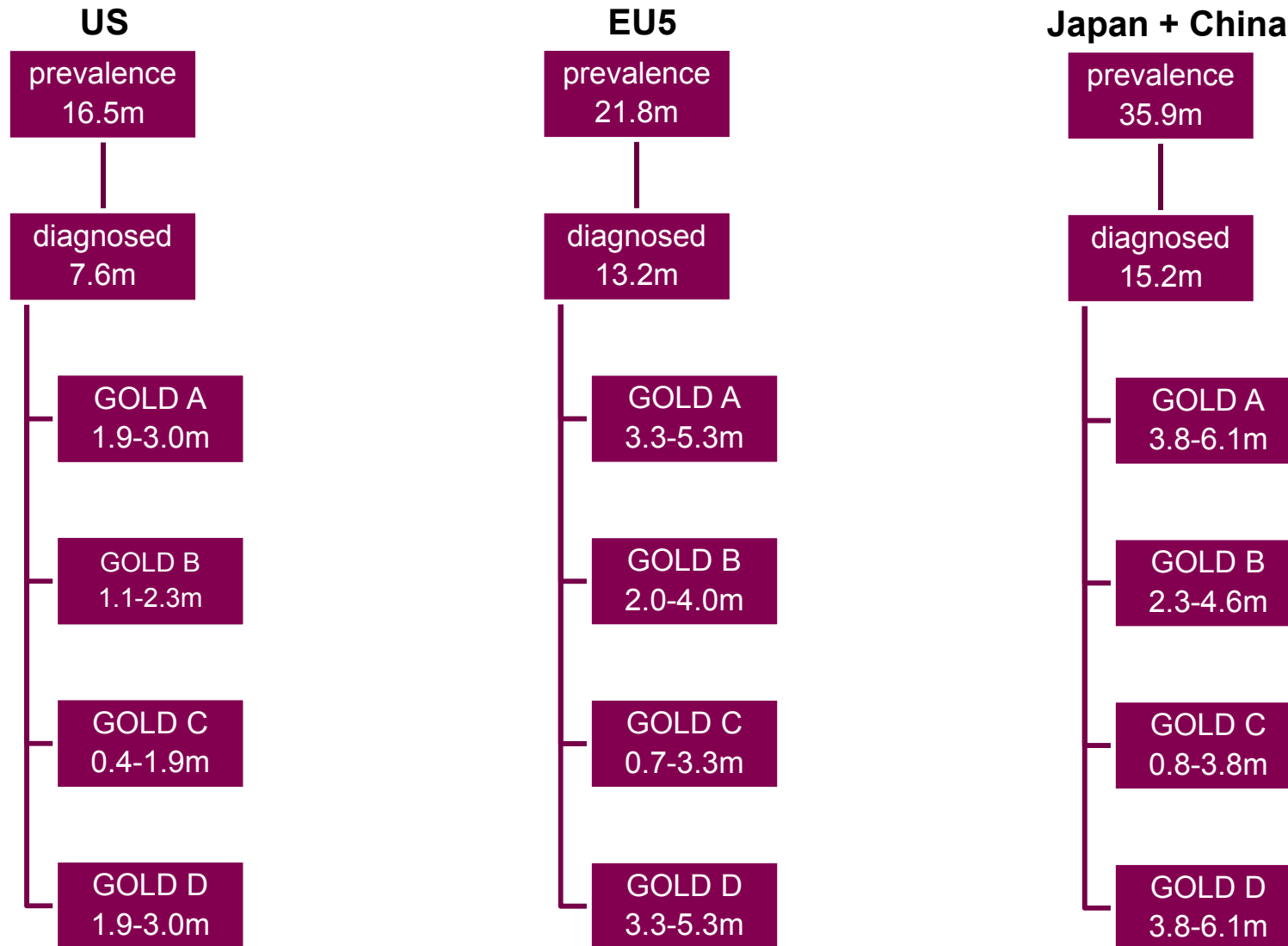
Asthma



Sources: Diagnosed and treated patients from internal analysis based on Decision Resources, ImS mIDAS and ImS longitudinal data; GOLD breakdown from internal analysis utilising Adelphi DSP patient record study 2012



COPD



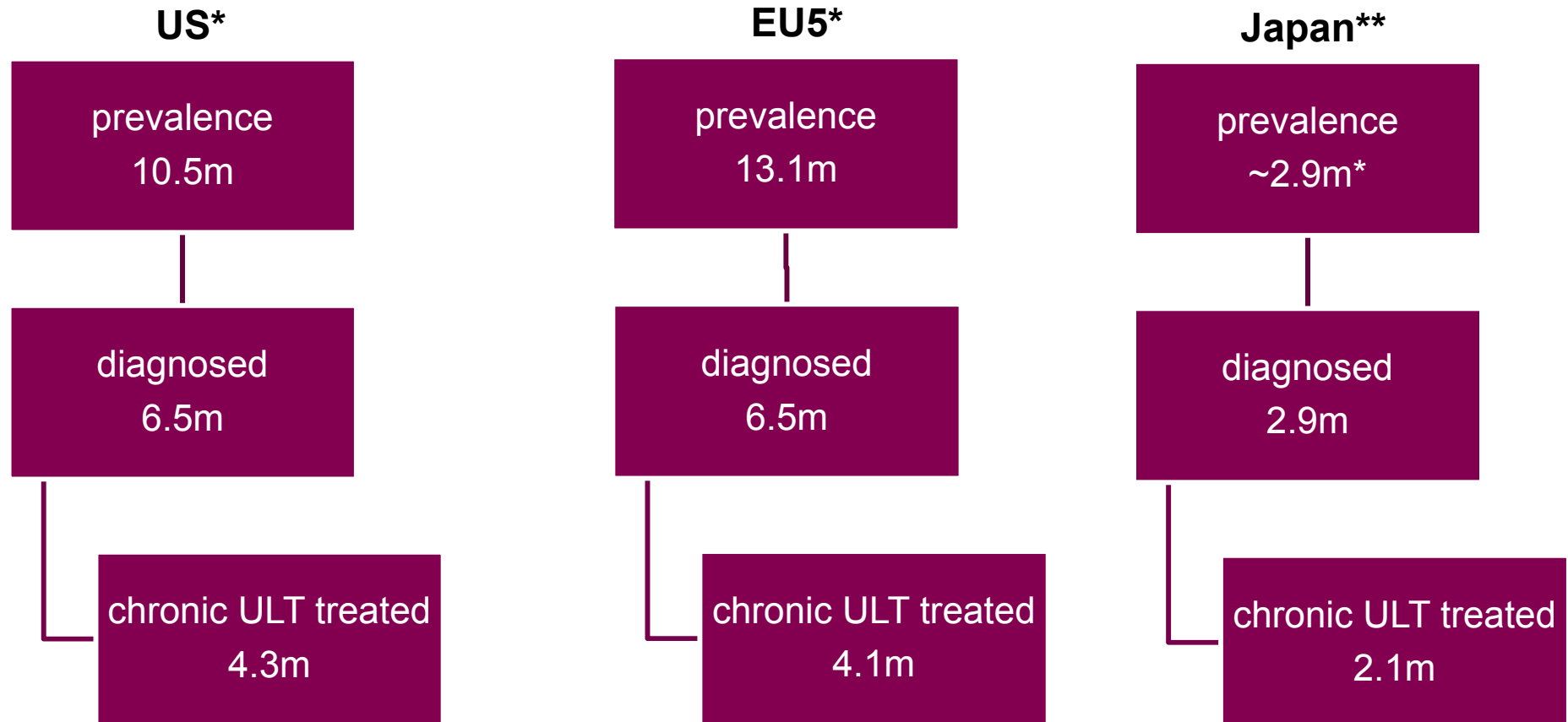
GOLD is a relatively recent approach to classification with some uncertainty/variation in literature over distribution of patients

Sources: Diagnosed and treated patients from internal analysis based on Decision Resources, ImS mIDAS and ImS longitudinal data; GOLD breakdown from internal analysis of Adelphi DSP patient record study 2012/2013, Augusti et al 2013, Boland et al 2014, Han et al 2013, Johannessen et al 2013, Lange et al 2012, Leivseth et al 2013, Soriano et al 2013



Lesinurad

Gout



ULT: Urate Lowering Therapy

Due to hyperuricemia treatment, overall gout prevalence remains similar to diagnosed gout prevalence

Sources: * Decision Resources; NHANES (2009-2010); Stevens et al. Population Health Metrics 2012,10:22; <http://www.ncbi.nlm.nih.gov/pubmed/22778033>;

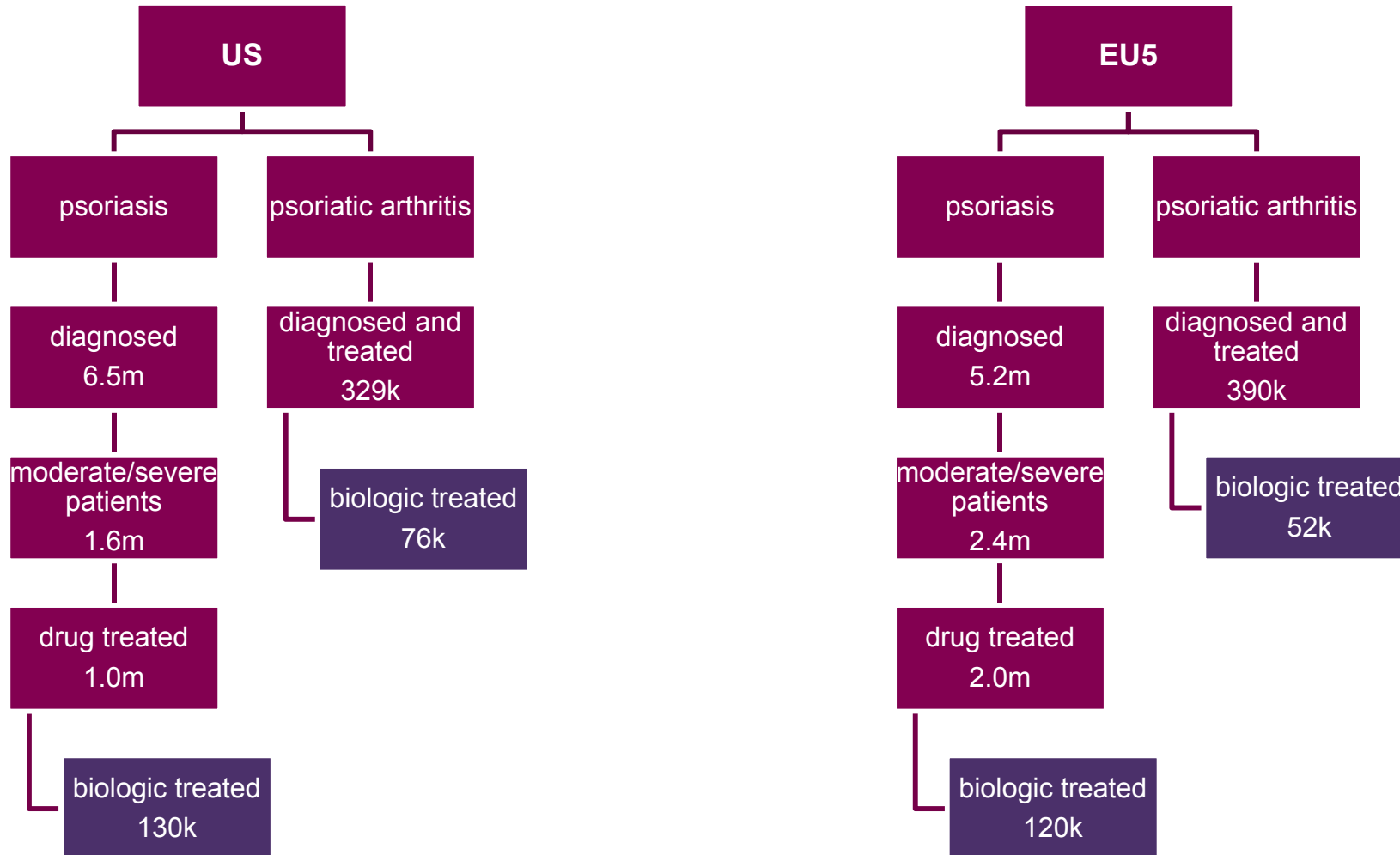
AZ Internal Analysis; IMS MIDAS Volume Reconciliation

**Decision Resources; Kamatani N et. Al., 2011; Zairoric et al 2007; IMS MIDAS Volume Reconciliation; AZ Internal Analysis



Brodalumab

Psoriasis (PsO) and Psoriatic Arthritis (PsA)

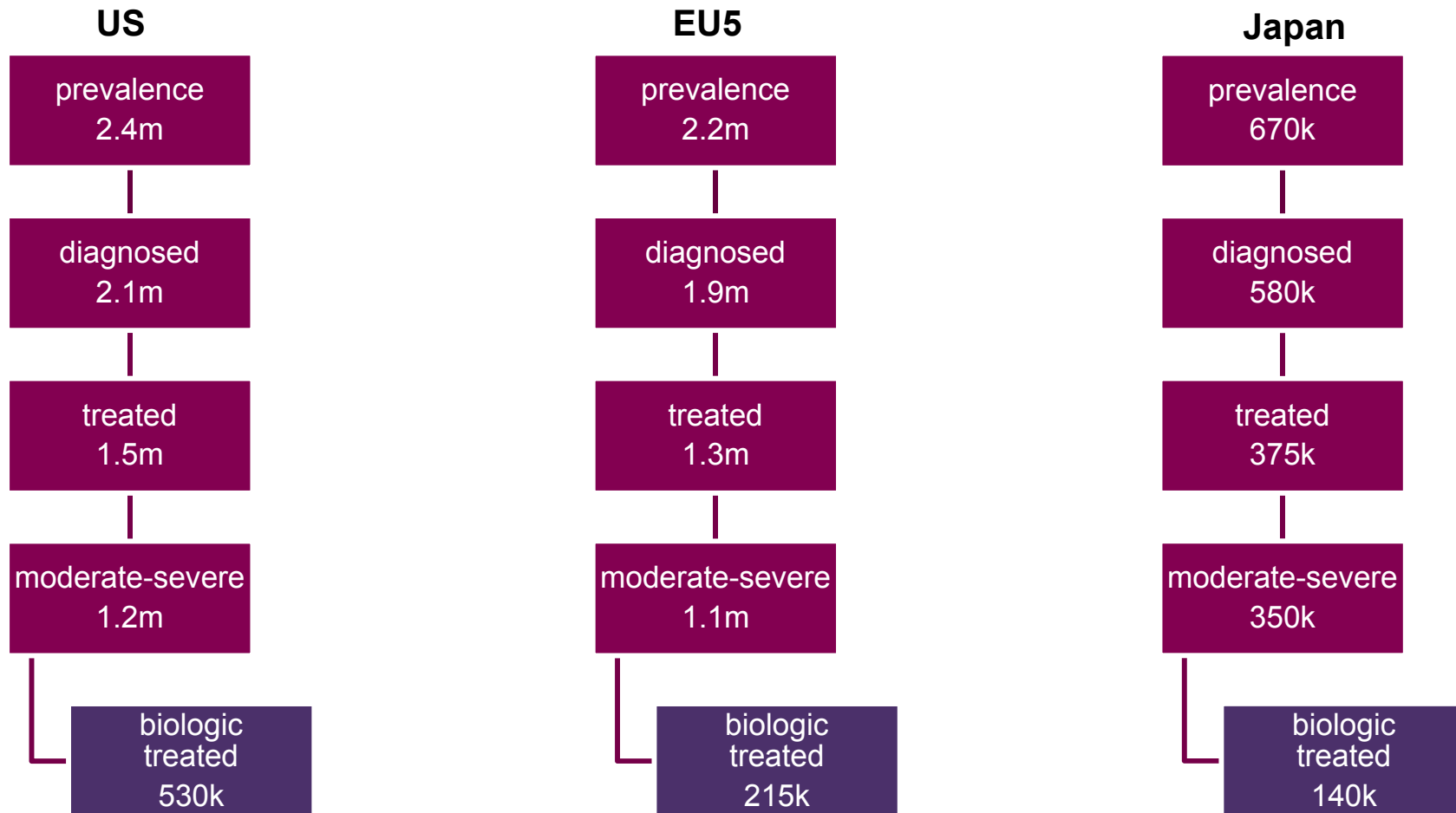


Sources: Decision Resources (2013), ImS Patient Level data (2013), ImS mDART (2014), Adelphi Psoriasis DSP (2013), AZ Internal analysis



Mavrilimumab

Rheumatoid arthritis (RA)

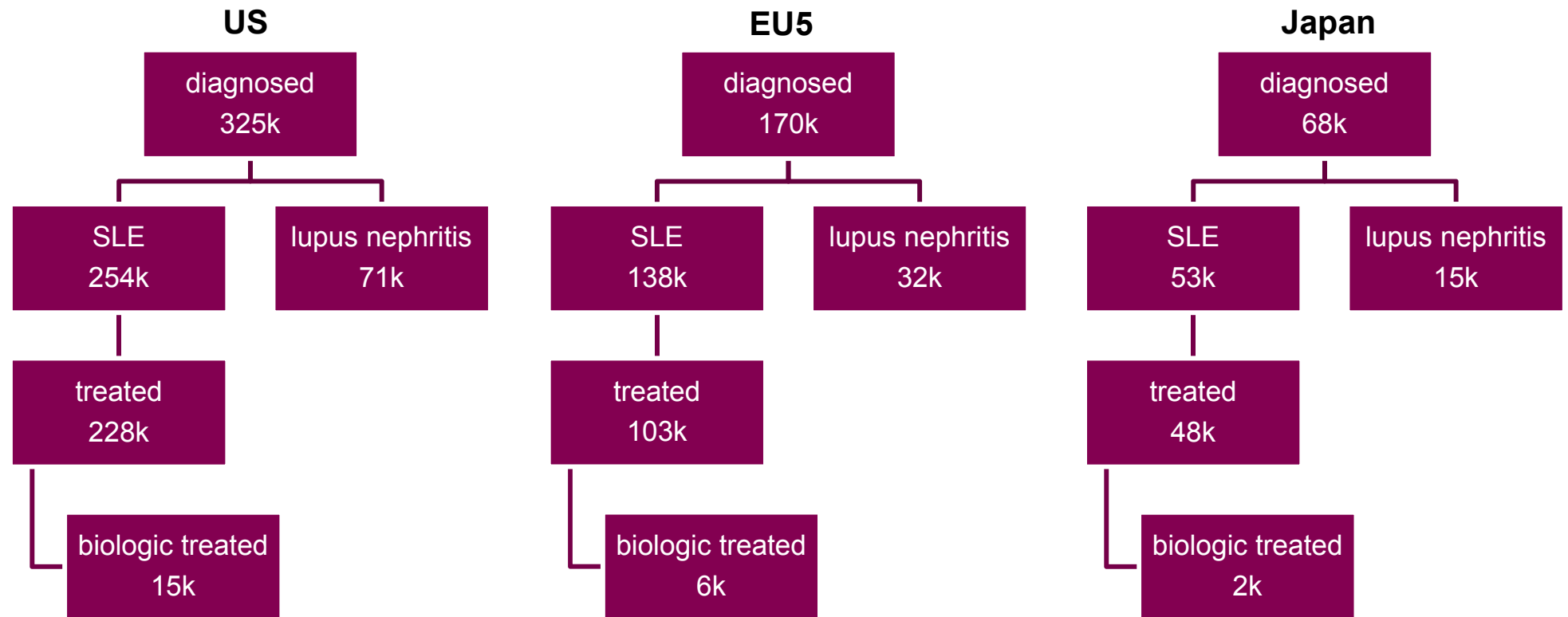


Sources: Decision Resources (2013), Kantar Health (2014), IMS mDART (Volume, medical data), Adelphi Rheumatoid Arthritis DSP EU5 (2014), AZ internal analysis



Sifalimumab and anifrolumab

Lupus

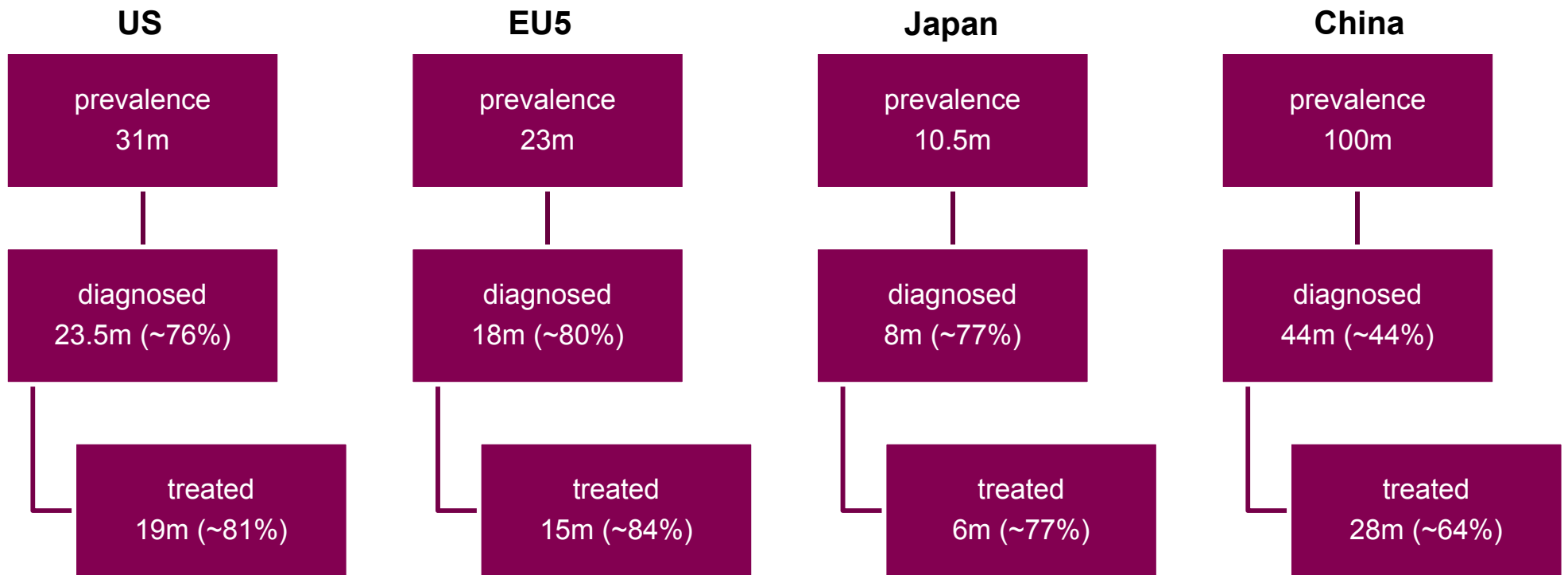


SLE: Systemic Lupus Erythematosus

Source: Decision Resources, Datamonitor, Kantar Health



Type 2 Diabetes

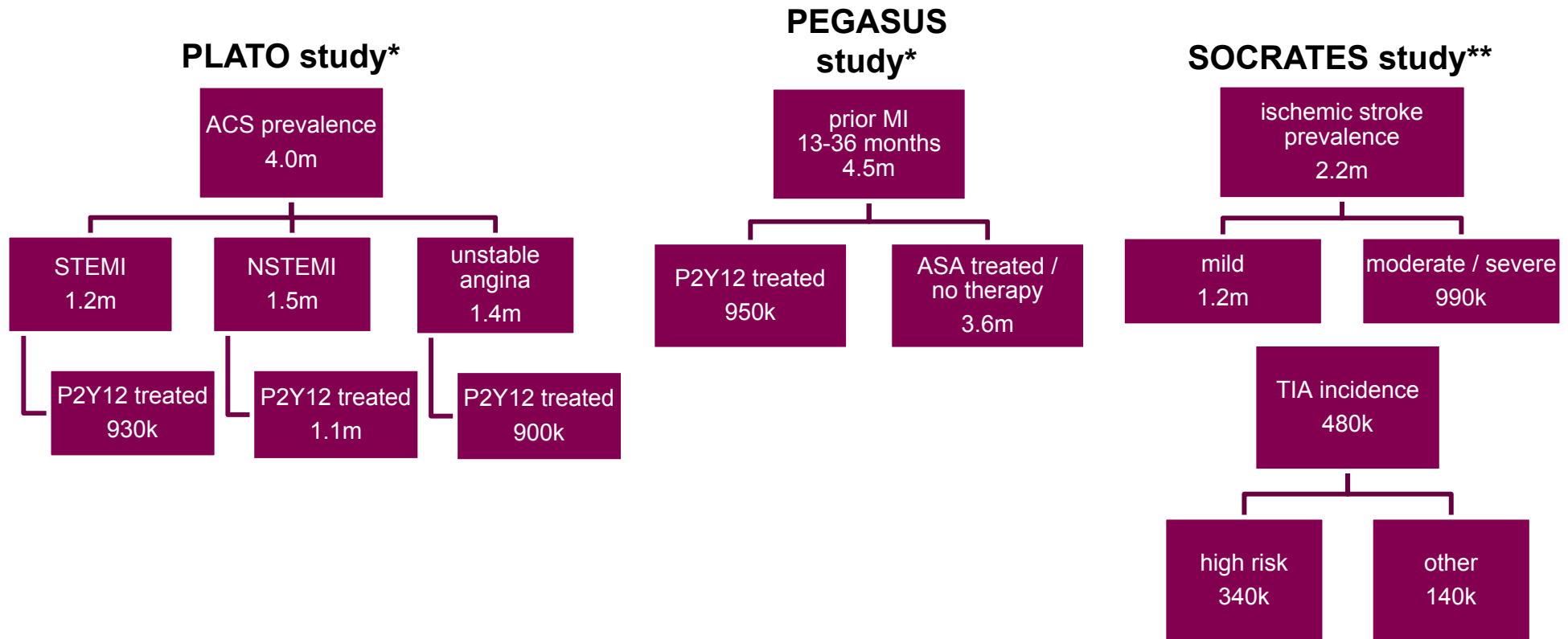


Source: Decision Resources Sept 2014



Brilinta

ACS, prior MI, stroke



ACS: Acute Coronary Syndrome

MI: myocardial Infarction

TIA: Transient Ischemic Attack

STEMI: ST Segment Elevation myocardial Infarction

NSTEMI: Non-ST Segment Elevation myocardial Infarction

ASA: Aspirin

*: US, EU5, Australia, China, Russia, & Japan markets only

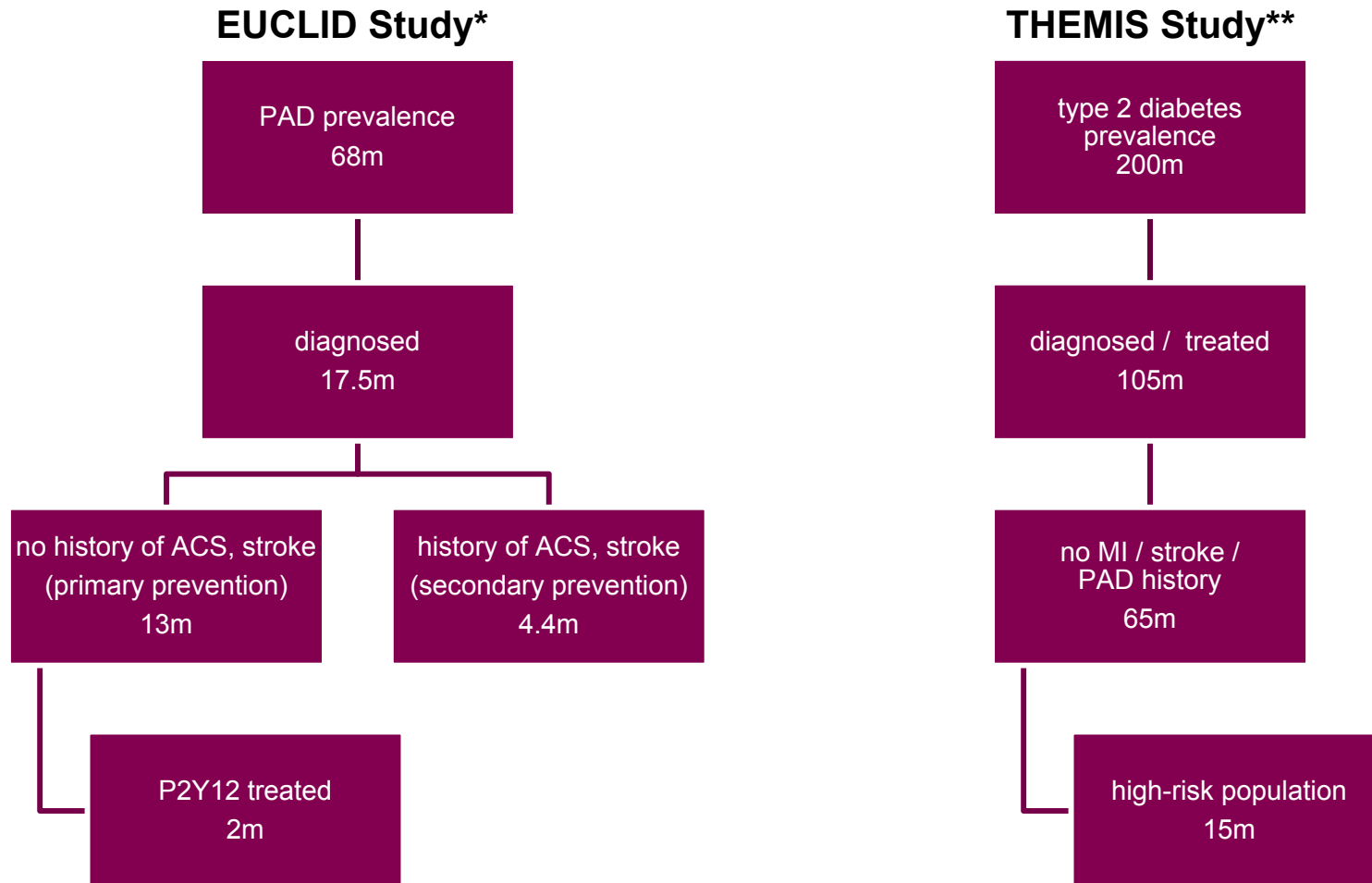
** : US, EU5, China, & Japan markets only

Source: kantar Health (2010), GRACE Registry (2007), National Health & Wellness Survey (2013), medical Literature, Internal Data



Brilinta (continued)

PAD, Type 2 Diabetes



PAD: Peripheral Artery Disease

*: US, EU5, China, & Brazil markets only

** : All global markets

Source: Decision Resources (2010 & 2013), Kantar Health (2010), NHANES Database (2010), Framingham Heart Study (1997), medical literature, & Internal Data



Epanova

Hypertriglyceridemia

US

prevalence
315m

HTG (>150 mg/dL)
64m

HTG (>150 mg/dL)
diagnosed & treated
15m

patients on TG specific lowering
therapy (fibrates & Om3)
6.5m

EU5

prevalence
315m

HTG (>150 mg/dL)
67m

HTG (>150 mg/dL)
diagnosed & treated
14m

patients on TG specific lowering
therapy (fibrates & Om3)
4m

Japan

prevalence
128m

HTG (>150 mg/dL)
31m

HTG (>150 mg/dL)
diagnosed & treated
6.5m

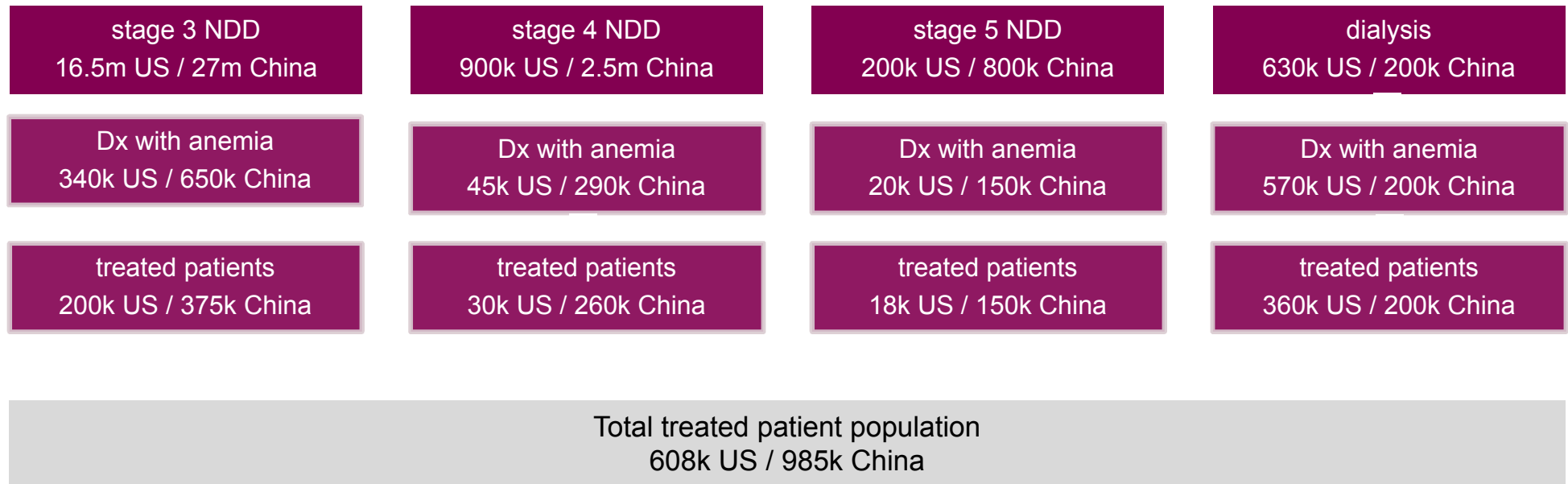
patients on TG specific lowering
therapy (fibrates & Om3)
4m

HTG: Hypertriglyceridemia
TG: Triglycerides
Source: Decision Resources, Kantar Health



Roxadustat*

Chronic kidney disease - NDD and DD



NDD: Non-Dialysis Dependent

DD: Dialysis Dependent

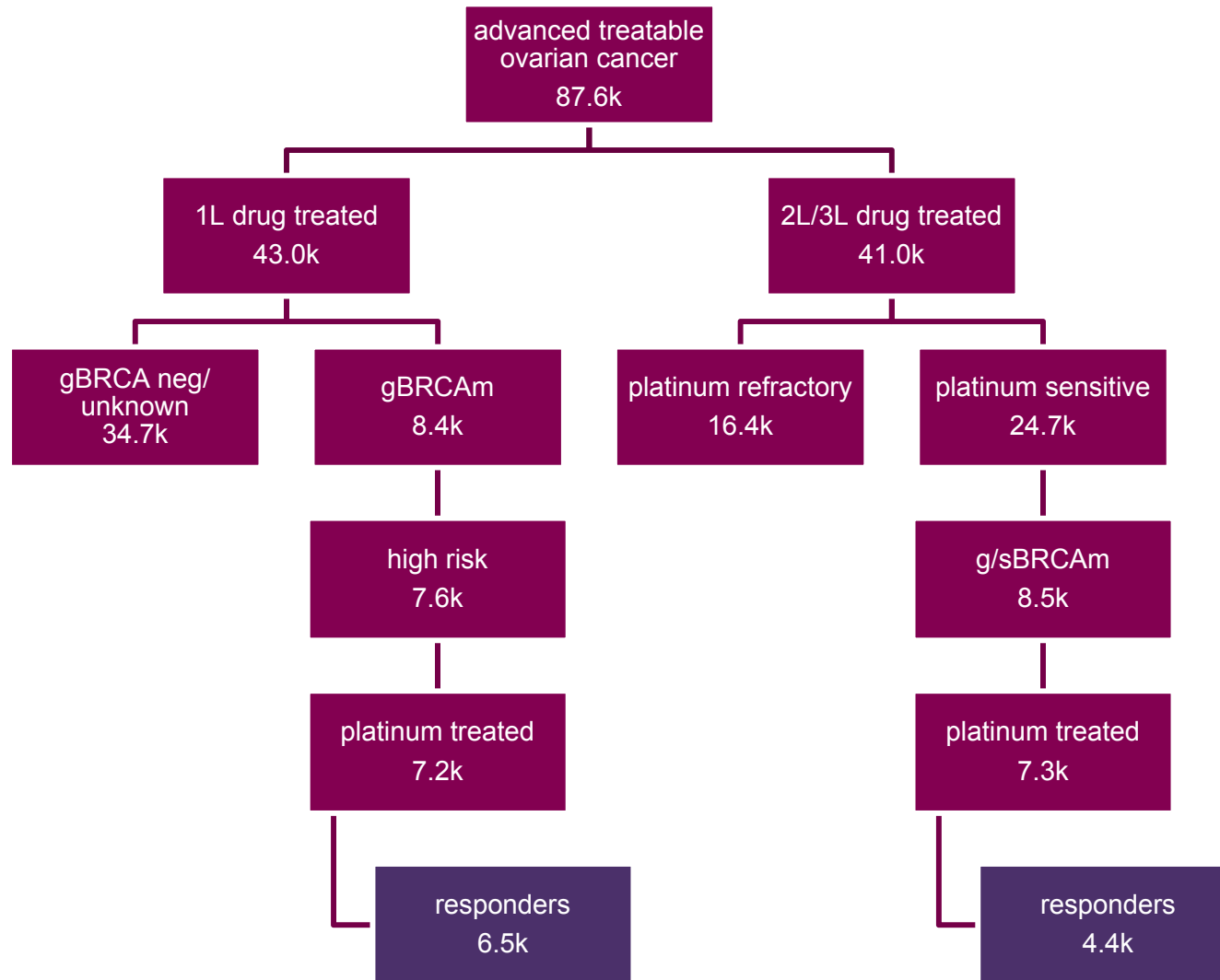
* AstraZeneca holds marketing rights in the U.S. and China.

Source: Decision Resources; internal estimates

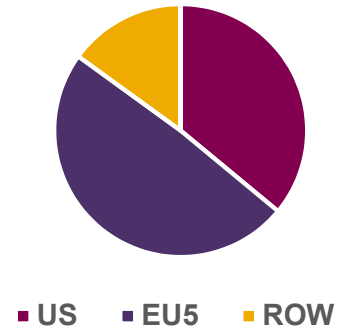


Lynparza

Ovarian cancer



Geographic breakdown



Source: Epi: kantar Health Patient metrics (2014), AZ internal data

Definitions: Drug treatable populations include incident patients with metastatic disease, plus patients who have recurred from early stage disease.

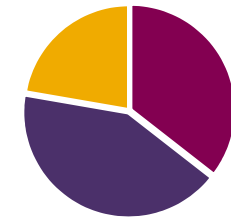
Drug treated populations include only those patients who are currently treated with a systemic therapy.

Mutation: BRCA status reflects the total number of patients who are BRCAm, and does not account for diagnostic testing rates.

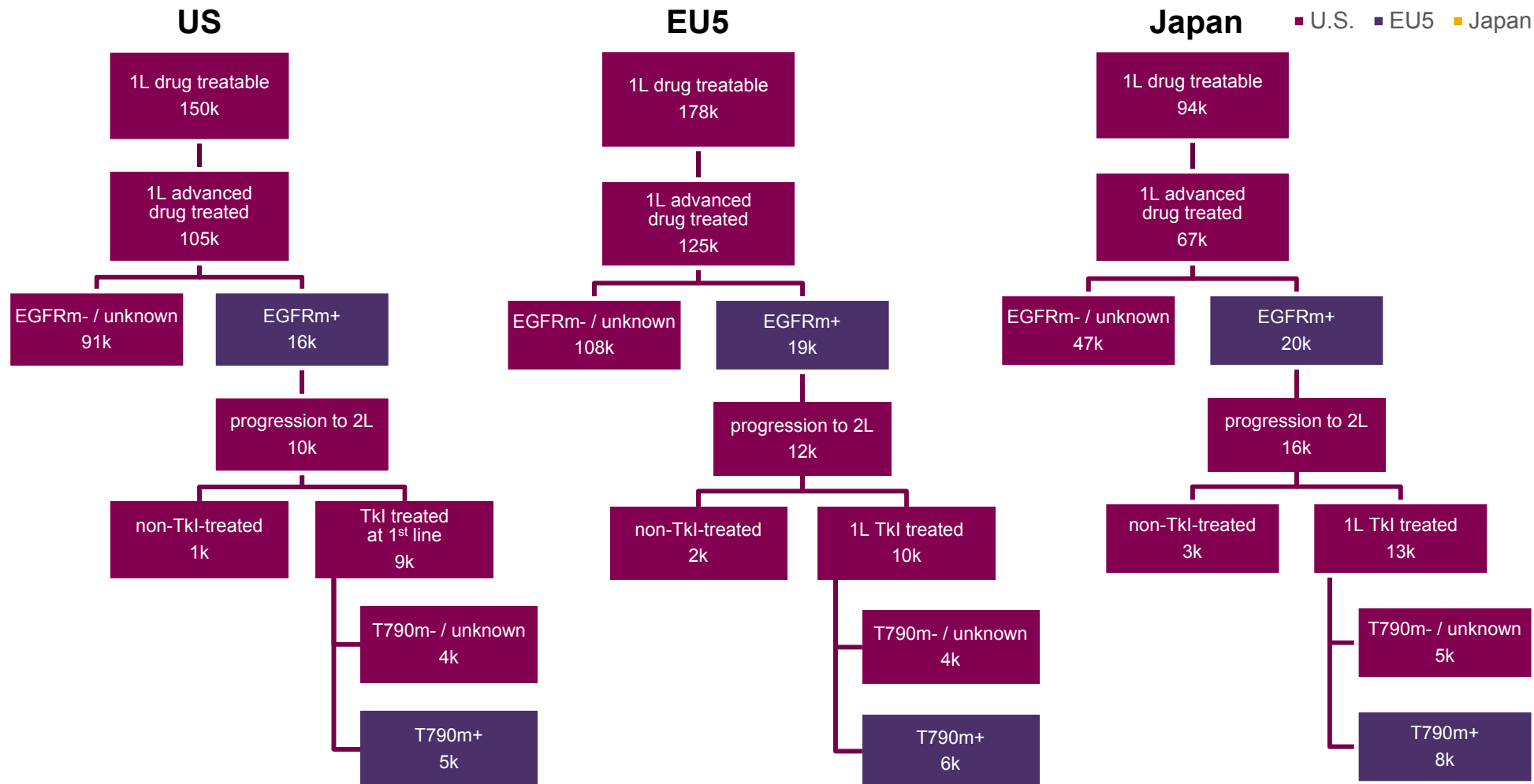


AZD9291

EGFRm+ non-small cell lung cancer (NSCLC)



■ U.S. ■ EU5 ■ Japan



Based on 2014 patient numbers, treatment rates, and progression rates to second line

Sources: Kantar; Decision Resource, internal data

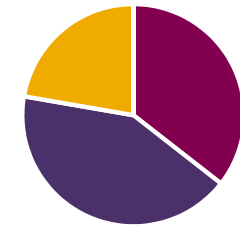
Definitions: Drug treatable populations include incident patients with metastatic disease, plus patients who have recurred from early stage disease. Drug treated populations include only those patients who are currently treated with a systemic therapy.



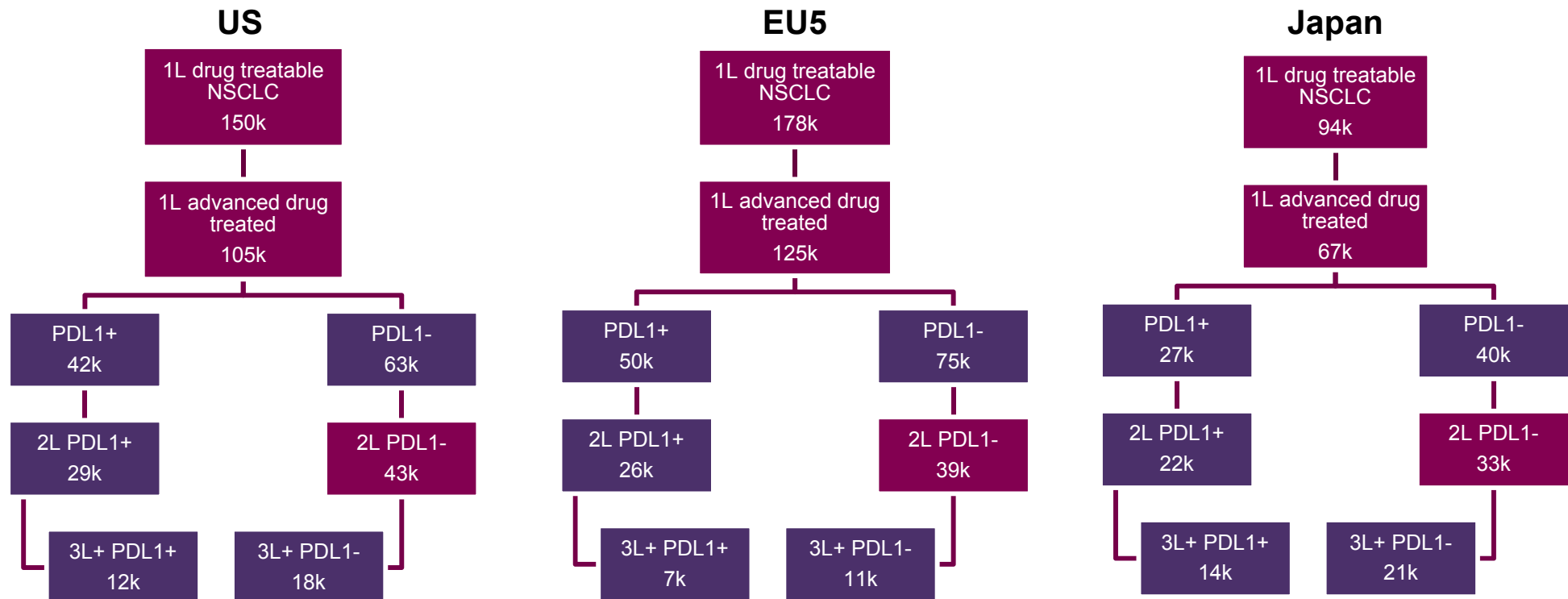
MEDI4736 / MEDI4736 + tremelimumab

Non-small cell lung cancer (NSCLC)

Geographic breakdown



■ U.S. ■ EU5 ■ Japan



Based on 2014 patient numbers, treatment rates, and progression rates to second and third line

Sources: Kantar; Decision Resource, internal data

Definitions: Drug treatable populations include incident patients with metastatic disease, plus patients who have recurred from early stage disease. Drug treated populations include only those patients who are currently treated with a systemic therapy.

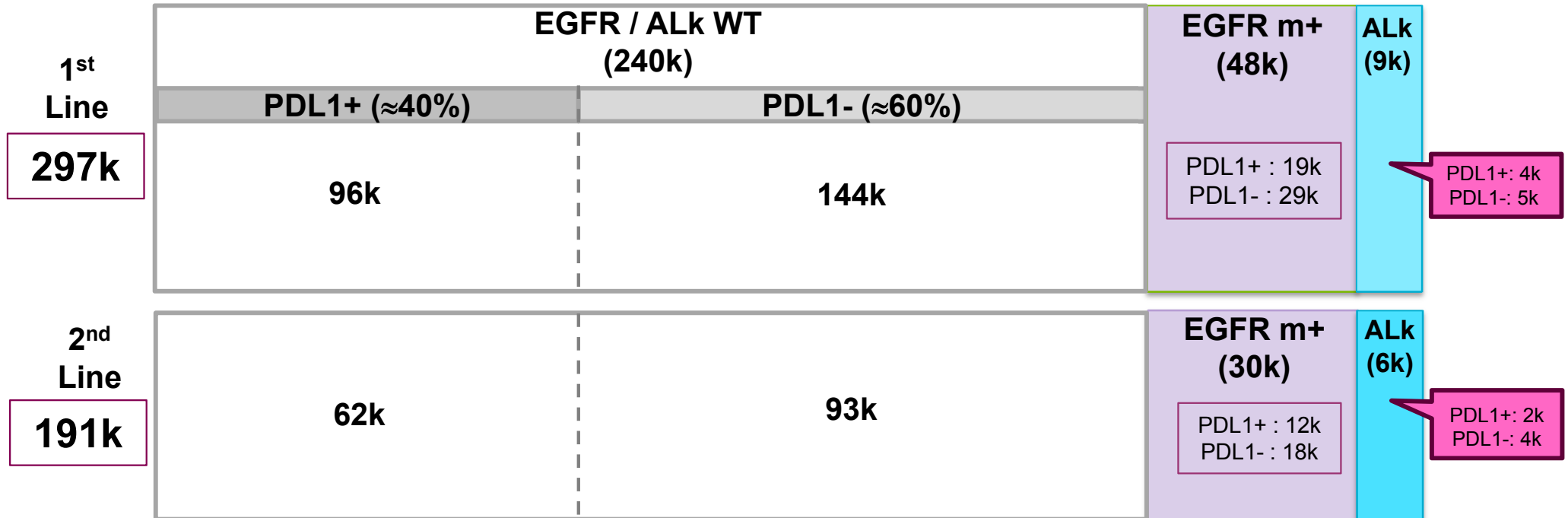
PDL1+ reflects the total number of patients who are PDL1+, and does not account for diagnostic testing rates. PDL1 prevalence subject to change based on evolving diagnostic science.

Target patient population for mono or combo



Metastatic NSCLC

Drug-treated patients

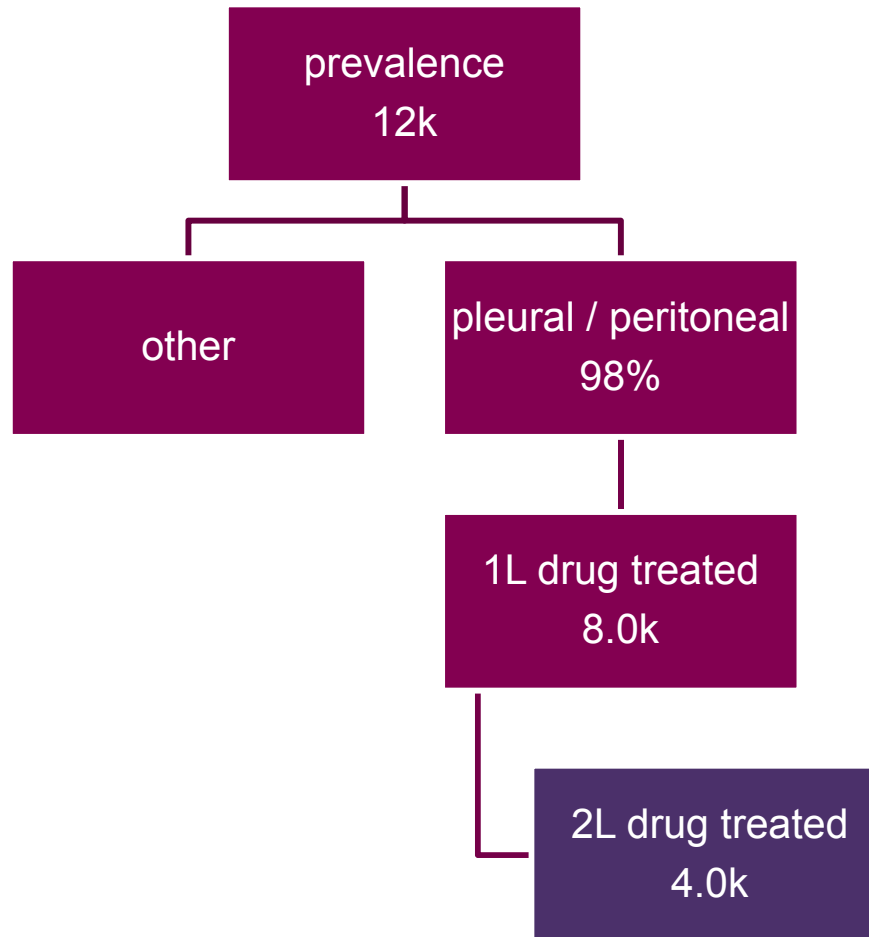


Based on 2014 drug treated patient numbers, treatment rates, and progression rates to second
 Assumes PDL1 prevalence is consistent across EGFR+, ALk+, and EGFR/ALk-; PDL1 prevalence subject to change based on evolving diagnostic science.
 Source: Kantar/Decision Resources/market Consults, internal data
 Numbers may not add up exact due to rounding

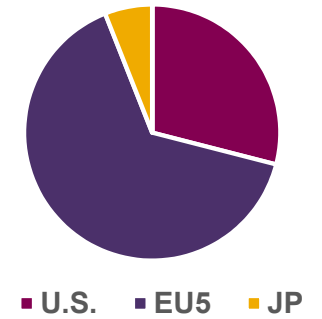


Tremelimumab

Mesothelioma



Geographic breakdown

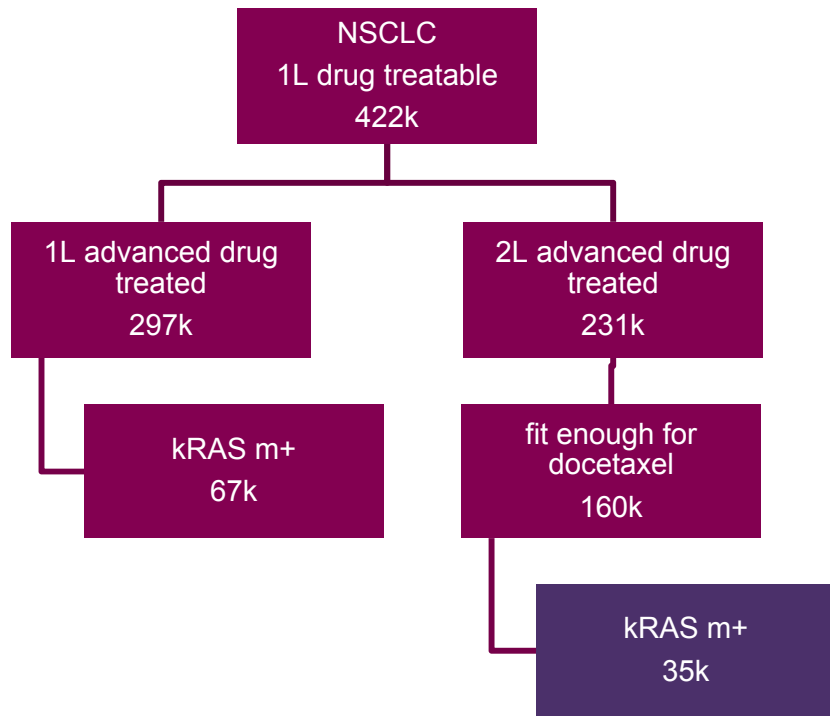


Source: SEER/IARC; market research
Based on 2014 patient numbers and treatment rates

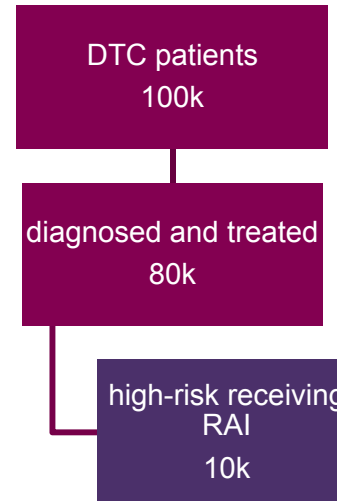
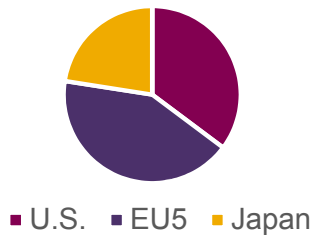


Selumetinib

NSCLC, differentiated thyroid cancer (DTC), uveal melanoma (UM)



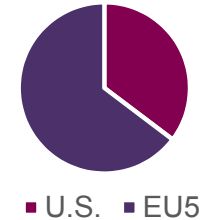
Geographic breakdown



Geographic breakdown



Geographic breakdown



Based on 2014 patient numbers, treatment rates, and progression rates to second line

Sources: Kantar; Decision Resource, internal data, AZ Epidemiology Group

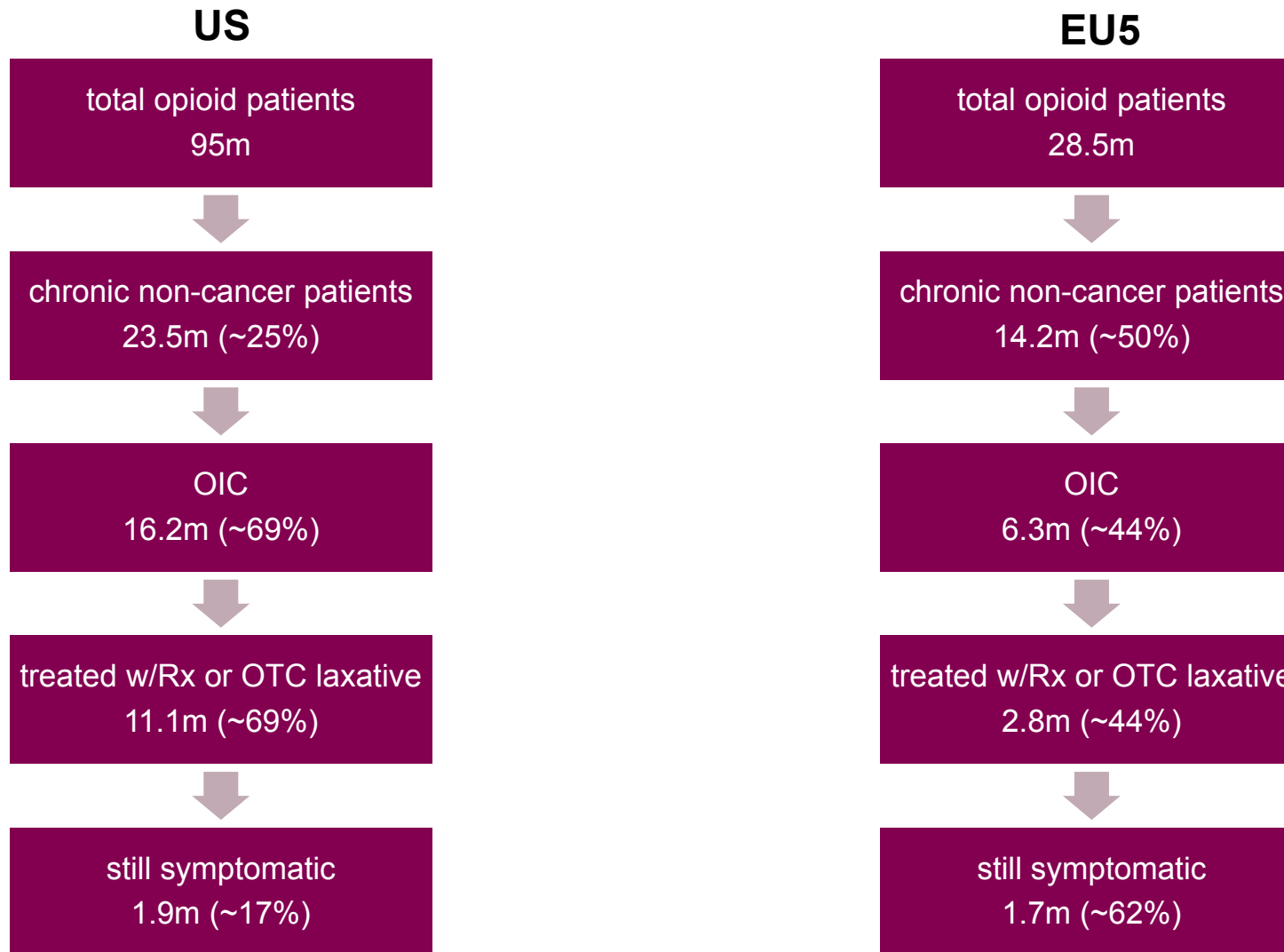
Definitions: Drug treatable populations include incident patients with metastatic disease, plus patients who have recurred from early stage disease.

Drug treated populations include only those patients who are currently treated with a systemic therapy.



Movantik / Moventig

Opioid-induced constipation (OIC)



Patients are based on a calculated "incidence" number of opioid users.

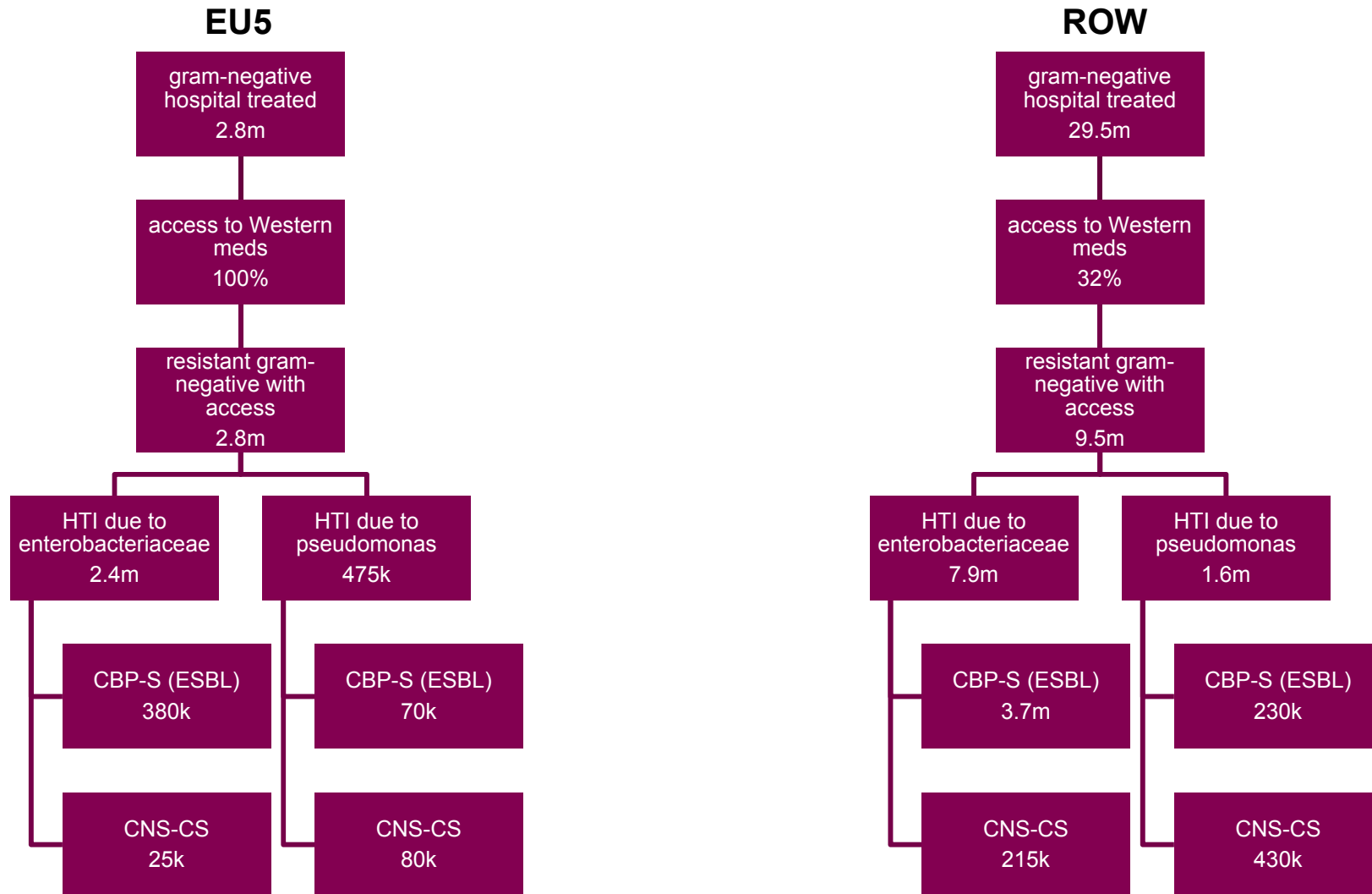
Note: Rounding in percentages not adjusted

Sources: US ImS APLD, Sml Alcott, Disruptyx Analogue; EU: ImS; Other: mC Inputs, medical Publications



CAZ AVI

Serious gram-negative bacterial infection



Patient numbers are in 000s

Sources: Decision Resources; Surveillance Data Link Network (SDLN by IHmA Inc); Internal AstraZeneca assumptions

*ROW: Uplift factor applied to Russia, China, Brazil, Mexico data to generate ROW (Excludes North America)



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