

Highly Anticipated Drug Launches in 2017



Herspiegel Consulting^{inc}

Before we begin...

Inclusion criteria

- High sales forecasts
- First-in-class MOA
- Breakthrough and fast track designations
- Qualitative opinions of analysts (investment banks specializing in pharma)

Key themes

1. Pricing is inescapable
2. Brace for a shakeup with President Trump
 - a) Promises to decrease high drug prices in exchange for lax regulations
 - b) Repeal / replace ACA

1. Ocrelizumab (Ocrevus)

		
Roche Manufacturer	Multiple Sclerosis Indication	\$4.1bn 2022 Sales Forecast

Why It Has Potential



- First-ever medicine to show ability to delay disability in patients with **PPMS** (existing treatments only delay RRMS)
- Designated a **breakthrough therapy** (Feb 2016)

- Outperformed Merck KGaA's top standard therapy, **Rebif**

Cautions



- FDA pushed PDUFA date from 12/28/16 to 3/28/17, citing questions about its commercial manufacturing process
- Generic Copaxone

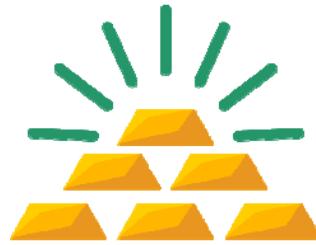
- Will likely ramp up **payer pressure** on the entire MS market, which is already experiencing a cooldown

Other Commentary



- Payer pressure is attributable to clear industry trends in addition to formulary management

2. Dupilumab (Dupixent)

		
Sanofi / Regeneron Manufacturer	Severe Atopic Dermatitis Indication	\$4.1bn 2022 Sales Forecast

Why It Has Potential



- Wealth of **solid clinical data**
- Unparalleled **efficacy**
- **Dearth** of solid atopic dermatitis treatments

- Examples: allergy-related disorders including Asthma

Cautions



- Payer obstacles have stalled recent launches of other **specialty therapeutics** approved for chronic uses

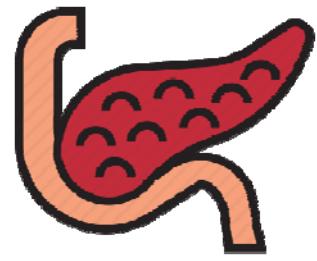
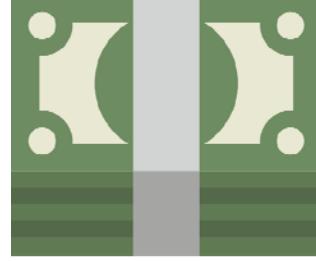
- Examples: PCSK9 therapies Praluent (Sanofi / Regeneron) and Repatha (Amgen)
- Only **1.6M patients qualify for on-label treatment**, a small piece of the Eczema pie

Other Commentary



- Like many other drugs launching in 2017, all eyes will be on the price tag
- March 29, 2017 – FDA decision date

3. Semaglutide

 novo nordisk®		
Novo Nordisk Manufacturer	Type 2 Diabetes Indication	\$2.2bn 2022 Sales Forecast

Why It Has Potential



- “Victoza is the strongest GLP-1 daily and **Semaglutide is the strongest GLP-1 weekly**”
- Outperformed AZ’s weekly Bydureon (GLP-1), Merck’s Januvia (DPP-4), and Sanofi’s Lantus (basal)
- Also developing an **oral Semaglutide**, which will be the **first in the GLP-1 class**
- Wealth of positive clinical data, including, very **positive cardiovascular outcomes**

Cautions



- Will have to face Lilly’s weekly **Trulicity**, which is **quickly stealing market share** since its launch last year
- Pricing will be a challenge as the **GLP-1 class is crowded**

Other Commentary

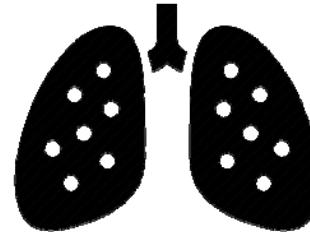


- Novo will need to expand its outcomes research and build on its list of head-to-head studies
 - Example: currently recruiting for head-to-head study vs. Jardiance
- 12/5/2016 – NDA filed
- Phase III trials for oral Semaglutide are set to wrap up in late 2018 / early 2019

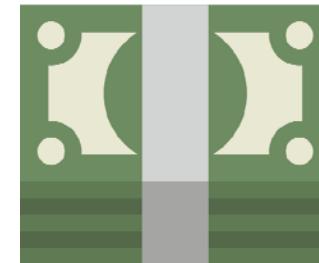
4. Durvalumab



AstraZeneca
Manufacturer



NSCLC
Indication



\$1.9bn
2022 Sales Forecast

Why It Has Potential



- May snag a **first-line monotherapy** nod in combination with tremelimumab
- **NSCLC market is very lucrative**, as lung cancer is very aggressive

- Can exploit the **void** left by **BMS's Opdivo**, which flopped its own first-line monotherapy trial last August (BMS tanked 20%, making it a takeover target)

Cautions



- Efforts to snag **first line monotherapy** nod pushed back estimated completion date
- Opdivo (BMS), Keytruda (Merck), and Tecentriq (Roche) are all jockeying for position

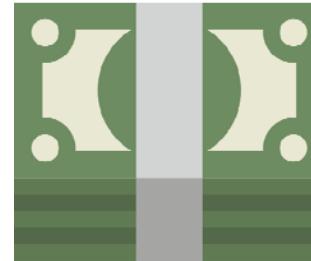
- Regulators may not be in a rush to approve checkpoint drugs since **Keytruda has been on the market since 2015** and won a first-line monotherapy indication last October

Other Commentary



- 2/17/16 – won **breakthrough therapy status for bladder cancer**, where it will battle Tecentriq
- 12/9/16 – **BLA application accepted** for bladder cancer

5. Baricitinib

			
Eli Lilly / Incyte Manufacturer	Rheumatoid Arthritis Indication	\$1.8bn 2022 Sales Forecast	

Why It Has Potential



- Differentiators: **oral**; long-term extension study determined positive effects can be maintained for **at least 48 weeks**
- Will follow Pfizer's **Xeljanz**, which recently failed to match Humira in head-to-head trials
- Wealth of **positive data**

Cautions



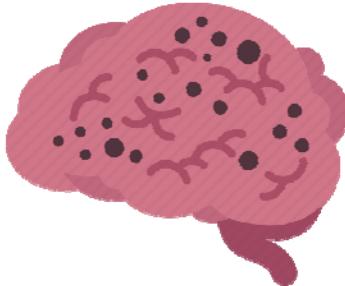
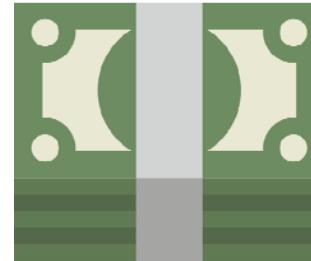
- Waiting **longer than expected** due to FDA's request for additional data analyses in mid Jan.
- The biosimilars are coming!!
 - Amjevita (biosimilar of Humira)
 - Erelzi (biosimilar of Enbrel)
- Robust RA pipeline** (all Ph III):
 - GSK / JNJ (Sirukumab)
 - Sanofi / Regeneron (Sarilumab)
 - Gilead / Galapagos (Filgotinib)

Other Commentary



- FDA decision date – mid-April

6. Valbenazine (Ingrezza)

 Neurocrine BIOSCIENCES		
Neurocrine Manufacturer	Tardive Dyskinesia Indication	\$1.3bn 2022 Sales Forecast

Why It Has Potential



- Both **fast track** and **breakthrough designations**
- Wealth of robust data for TD indication
- “Take on TD” market development campaign
- Also pursuing indication for **Tourette Syndrome** (plus pediatrics)
- Scheduled to be reviewed for approval before Teva’s **SD-809**; can be first-ever FDA-approved medicine for TD

Cautions



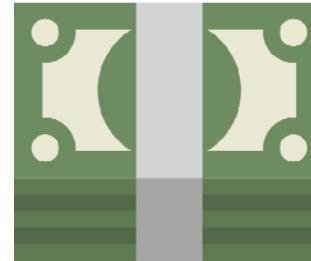
- While it significantly improved overall symptoms, Valbenazine **missed primary endpoint** in TS study last January
- TS is the bigger market
- **Black box warning** for potential depression and suicidal ideation

Other Commentary



- 4/11/17 – FDA decision date
- Pediatric Tourette Syndrome data is expected in late March or early April

7. Axicabtagene Ciloleucel (KTE-C19)

 Kite Pharma		
Kite Pharma Manufacturer	NHL / ALL Indication	\$1.4bn 2022 Sales Forecast

Why It Has Potential



- KTE-C19 pulled ahead of the race after series of **deaths in Juno's CAR-T trial**
- Novartis **cut much of its gene and cell therapy team** in 2016
- **PRIME designation from EMA**

Cautions



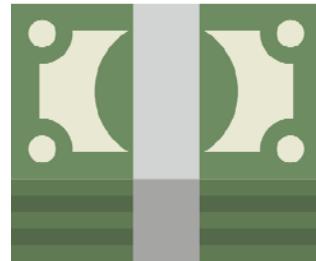
- **Novartis** is also very strong in the CAR-T space
 - Very strong clinical data
 - Received **PRIME designation from EMA**

Other Commentary



- 12/4/16 – BLA submission date
- Ability to hit revenue targets depends on ability to **expand into other indications**
 - Example: solid tumors
- Analysts have predicted a price tag of **\$300K per course**

8. Nusinersen (Spinraza)

 Biogen Manufacturer		
Biogen Manufacturer	Spinal Muscular Atrophy Indication	\$1.3bn 2022 Sales Forecast

Why It Has Potential



- **First-ever medicine** for spinal muscular atrophy (rare disease)
- Regardless of price, the **data illustrating unmet need and efficacy are overwhelming**
- SMA is the leading genetic cause of death for infants

Cautions



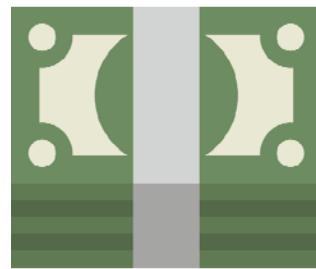
- “Price can be the straw that breaks the camel’s back in terms of the U.S. market’s tolerance for rare disease drug pricing.”
- Price is \$750K for the first year plus \$375K per year after

Other Commentary



- Stock price dropped and attracted negative PR when price was announced
- Incidence: affects 1 / 10,000 babies and is often fatal
- 12/23/2016 – **FDA approved**

9. Niraparib

		
Tesaro Manufacturer	Ovarian Cancer Indication	\$1.9bn 2022 Sales Forecast

Why It Has Potential



- Differentiator: showed efficacy in women with **BRCA gene mutation**, which is very hard to treat
- **Robust clinical data:** “we have never seen such large benefits in progression-free survival in recurrent ovarian cancer”
- Already won FDA’s **priority review status**
- Massive potential patient population: **70%** of all ovarian cancer patients
- High expectations for a **broad label** (breast cancer)

Cautions



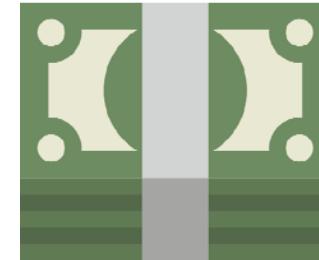
- Not the first (or second) PARP-inhibiting drug on the market
- Examples: AZ’s Lynparza and Clovis’ Rubraca (also approved for BRCA gene mutation)

Other Commentary



- Jan 2017 – expanded access program (EAP) opened in the U.S.
- 6/30/17 – FDA decision date

10. Ribociclib



Novartis
Manufacturer

Breast Cancer
Indication

\$1.6bn
2022 Sales Forecast

Why It Has Potential



- Snagged **FDA priority review** tag in Nov. 2016
- Differentiator: looking to collect pivotal data in **pre-menopausal women**
- **Strong phase III data**

Cautions



- Will need to challenge **Pfizer's Ibrance** in the CDK 4/6 field
- May have a **black box warning** for drug induced liver damage and mild cardiac arrhythmias

Other Commentary



- “Oncologists are used to monitoring the use of agents in these patients”
- Novartis doesn’t view the “relatively routine” monitoring “as an undue burden”

Ending Notes

- All medicines in this list have the potential to be gamechangers, but **Ocrevus** is a standout favorite
- The pricing issue is here to stay
- The pharma sector is hurting

