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### **Outline of Presentation**

- What are the objectives of accelerated approval programs?
- Have these objectives been met?
- What have been the consequences for payers?
- What actions can global payers take?





### Achievement of Objectives: Faster Access

- Enthusiastic response by pharmaceutical industry
- Fast-track licensing
- Reliance on surrogate endpoints
- Increased uncertainty for payers
- Final outcomes (eg improved overall survival) not always achieved

### Breakthrough Therapy Designation: Early Experience in the US

- Many requests and extensive use in first 2.5 years (January 2013 to June 2015):
  - 308 total requests for Breakthrough designation
  - 90 requests granted, 169 requests denied
  - 23 full FDA approvals
- Faster FDA review of new drug applications.
  - The median time for approval for drugs that have received the designation is 5.6 months.
  - For priority NDAs, the median approval time in 2014 was 6.5 months.
- Full impact on drug development timeline not yet clear, though some approved drugs for cancer, hepatitis C had much shorter timelines and cost from initial human testing to approval

Mark McClellan, OHE Lecture, London July 2015: Source: EvaluatePharma, FDA - Center for Drug Evaluation and Research





FDA Breakthrough Medicines: Have they Caused Breakthrough Headaches For HTA Agencies?

- Breakthrough medicines approved by the FDA up to 31 December 2014 were identified
- The appraisals by 6 payers/HTA agencies were analyzed in order to assess:
  - the proportion of all breakthrough medicines assessed by October 2015
  - the proportion of medicines deemed acceptable for reimbursement
  - the time taken to reach an outcome

Wonder M, Dunlop S, Chin G, Biggs J, Sullivan S, Drummond M. Value in Health 2015: 14: A550

Metric	US (Premera Blue Cross)	England (NICE)	France (HAS)	Germany (IQWiG/G-BA))	Canada (CADTH)	Australia (PBAC)
Number of medicine/patient population pairings registered by local regulatory agency	17	14	14	14	16	11
Number of medicine/patient population pairings with a payer/HTA agency outcome*	17	6	11	12	10	10
Number of medicine/patient population pairings deemed acceptable for reimbursement / coverage by payer/HTA agency	16	6	11	9	8	7
Period (date of local registration to date of payer/HTA agency outcome) (mean; days)	63	244	291	160	134	49
Medicines not yet supported by payer/HTA agency	ldelalisib (non- preferred on standard incentive formulary)	Nil	Nil	Ceritinib, idelalisib, pirfenidone	Ofatumumab acetate, pirfenidone	ldelalisib, ibrutinib (CLL), nintedanib esylate











### American Society for Clinical Oncology (ASCO) Clinically Meaningful Endpoints

Table 1. Summary of Recommended Targets for Meaningful Clinical Trial Goals

Cancer Type		Current Baseline Median OS (months)	Primary End Point	Secondary End Point		
	Patient Population		Improvement Over Current OS That Would Be Clinically Meaningful (months)	Target HRs	Improvement in 1-Year Survival Rate(%)*	Improvement in PFS (months)
Pancreatic cancer	FOLFIRINOX-eligible patients	10 to 11 <sup>19</sup>	4 to 5	0.67 to 0.69	48 to 63	4 to 5
Pancreatic cancer	Gemcitabine or gemcitabine/nab- paclitaxeleligible patients	8 to 9 <sup>20,21</sup>	3 to 4	0.6 to 0.75	35 to 50	3 to 4
Lung cancer	Nonsquamous cell carcinoma	1322	3.25 to 4	0.76 to 0.8	53 to 61	4
Lung cancer	Squamous cell carcinoma	10 <sup>23</sup>	2.5 to 3	0.77 to 0.8	44 to 53	3
Breast cancer	Metastatic triple negative, previously untreated for metastatic disease	18 <sup>24,25</sup>	4.5 to 6	0.75 to 0.8	63 to 71	4
Colon cancer	Disease progression with all prior therapies (or not a candidate for standard secondor third-line options)	4 to 6 <sup>26</sup>	3 to 5	0.67 to 0.67	25 to 35	3 to 5

Ellis LM, Bernstein DS, Voest EE, Berlin JD, Sargent D, Cortazar P, et al. American Society of Clinical Oncology Perspective: Raising the Bar for Clinical Trials by Defining Clinically Meaningful Outcomes. Journal of Clinical Oncology. 2014.



### What Actions Can Global Payers Take?

- Insist on more debate about relevant outcomes and the role of surrogates
- Develop a more organized approach to the gathering and analysis of 'real world' data



## Organized Approach to the Gathering and Analysis of 'Real World' Outcomes

Need agreement on:

- methodology (eg are observational data reliable?)
- financing of studies
- Inking the results of studies to coverage and pricing decisions
- the overall process for requesting and managing studies





- Originally a 'safety net' to fund drugs given negative recommendations by NICE
- In July 2016 became a 'managed access' fund
- NICE, or the NICE Appraisal Committee, can recommend that drugs be funded by the CDF while additional data are collected
- A formal *managed access agreement* is reached, specifying the data to be collected and period of the agreement

## Some Examples As of September 2017, 5 drugs have been referred to the CDF TA 416 Osimertinib for locally advanced or metastatic epidermal growth factor mutation-positive non-small cell cancer\* (ongoing clinical trials) TA 465 Olaratumab, in combination with doxorubicin for advanced soft tissue sarcoma\* (ongoing clinical trial and observational data) TA 472 Obinutuzumab, in combination with bendamustine followed by obinutuzumab for adults with follicular lymphoma\* (ongoing clinical trial and observational data)

# Conclusions Faster access has largely been achieved, in that HTA bodies/payers have not refused to reimburse drugs that have received accelerated approval Some doubts exist concerning long-term outcomes for fast-tracked drugs Patient engagement in the research process has been mixed The future emphasis is likely to be on managed access agreements to formalize real world data collection









### AM Dessler system CP FamilyDebles.com **PBM Perspective** dymaxium 🤇 "PerformRx reviews and considers all new drugs and biological products approved by the FDA with a high level care and clinical scrutiny. We understand the important role accelerated approvals have in bringing breakthrough therapies into the hand of patients sooner, but in turn this presents unique challenges and potential risks to the members we serve. An accelerated process may allow for an approval based on surrogate or intermediate endpoints. It is sometimes challenging to make a formulary recommendation since the clinical endpoint may not have been achieved. Our diverse team of clinical professionals give extra care and consideration to these products, examining the best available data and keeping up to date on the latest available clinical evidence and postmarketing surveillance reporting. At PerformRx, we strive to bring a pharmaceutical formulary to our members which is diverse and comprehensive, with demonstrated quality and safety profiles." Andrew Maiorini, PharmD, FAHM, VP, Clinical Programs, PerformRx





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A Review in Chronic Hepatitis C. Pha	armaceutical Approval Update.	Summary CenterWatch, FDA, Manufacturer	Pharmacology/ MOA	nucleocide analog NS58 polymera NS5A inhibitor	se inhibitor
Treatments for hepatitis C. Ent	ecavir plus tenofovir	Reviews VA PBM	Proposed indication	Pan HCV genotypes 1,2,3,4,6	
	nbination therapy for chronic patitis B in patients with previous	Spotlight DSM	Disease overview [1] (European guidelines)	Transferable viral infection that is the world	one of the main contributors to chronic liver disease around
DAA-based antiviral treatment of Met	leos(t)ide treatment failure. tabolism and Disposition of the satitis C Protease Inhibitor	Pipeline P&T PREP Sheet Global CADTH, EMA, SMC	Disease incidence/prevalence (2.3) (CDC vehicle and ISDA guidelines)	Incidence: - 30,000 carealysian Prevalence: Estimated 3.5 million ( 2.7 million in non-instituti 8 800,000 incarcerated, inst Half unaware of HCV infer	onalized population (ISDA) Inutionalized, or homeless
<ul> <li>Starting point f</li> </ul>		gh pipeline and		Birth 1945-1965 accounts     75-85% of cases become chronic, (     12% of U.S. HCV population has go     1/3 with HV also have HCV	10 T0% develop chronic liver disease, 5-20% develop cirrhosis
new product ev	/aluations		Target population	HCV genetypes 1.4 including those	with HEV co-infection and decompensated liver disease
			Dose and administration	Sofosbuvir 100 mg/velpataovir 400	
<ul> <li>Evidence aggre</li> </ul>	<ul> <li>Evidence aggregated from publicly available</li> </ul>		Common adverse events [4] Severe adverse events [4,5,6]	Fatigue, neusea, headache, insomnia, pruritar, reduced platelet count (Curry)     Heparic encephalopathy, sepsis, hematologic abnormalities	
resources by Dy	ymaxium P&T	Analysts	Current Treatment Landscape		-
- Fastura sensid	anationa and i	a a la la ta suite		Correct Standard of Co	
<ul> <li>Feature consider managed care</li> </ul>	pharmacist ov	ersight	Description Treatment for all padents with chronic HCV short life expectancies that cannot be reme other direct therapy. Assess patient's under willingness to be adhered and follow-up will based on individual patient factors.	diated by HCV treatment, transplant, or standing of treatment goals and	Guideline/Reference Unitized Infectious Disease Society of America and American Association for the Boday of Liver Diseases. Recommendations for testing, managing, and treating Inepathis C. Available at: https://focupidelines.org/. Accessed on May 22, 2015.





