

Let's talk about the elephant in
the room

CECOG BREAST CANCER ACADEMY

EU patient



The clash of the titans FDA vs EMA

Table 1. FDA (Food and Drug Administration) and EMA (European Medicines Agency) new drug approvals for breast cancer (1995–2018).

eribulin	Halaven	2010	-	FT	-	PR	-	2011	-	-	-	-
pertuzumab	Perjeta	2012	-	-	-	PR	-	2013	-	-	-	-
everolimus	Afinitor	2012	-	-	-	-	-	2012	-	-	-	-
ado-trastuzumab emt.	Kadcyla	2013	-	FT	-	PR	-	2013	-	-	-	-
palbociclib	Ibrance	2015	AA(+)	-	BT	PR	-	2016	-	-	-	-
ribociclib	Kisqali	2017	-	-	BT	PR	-	2017	-	-	-	-
neratinib	Nerlynx	2017	-	-	-	-	-	2018	-	-	-	-
abemaciclib	Verzenio	2017	-	FT	BT	PR	-	2018	-	-	-	-
olaparib	Lynparza	2018	-	-	-	PR	-	2019	-	-	-	-
talazoparib	Talzenna	2018	-	-	-	PR	-	2019	-	-	-	-
TOTAL	29	25	3	6	3	15	4	21	2	0	0	0

Source: https://www.researchgate.net/publication/339386193_FDA_and_EMA_Approvals_of_New_Breast_Cancer_Drugs-A_Comparative_Regulatory_Analysis

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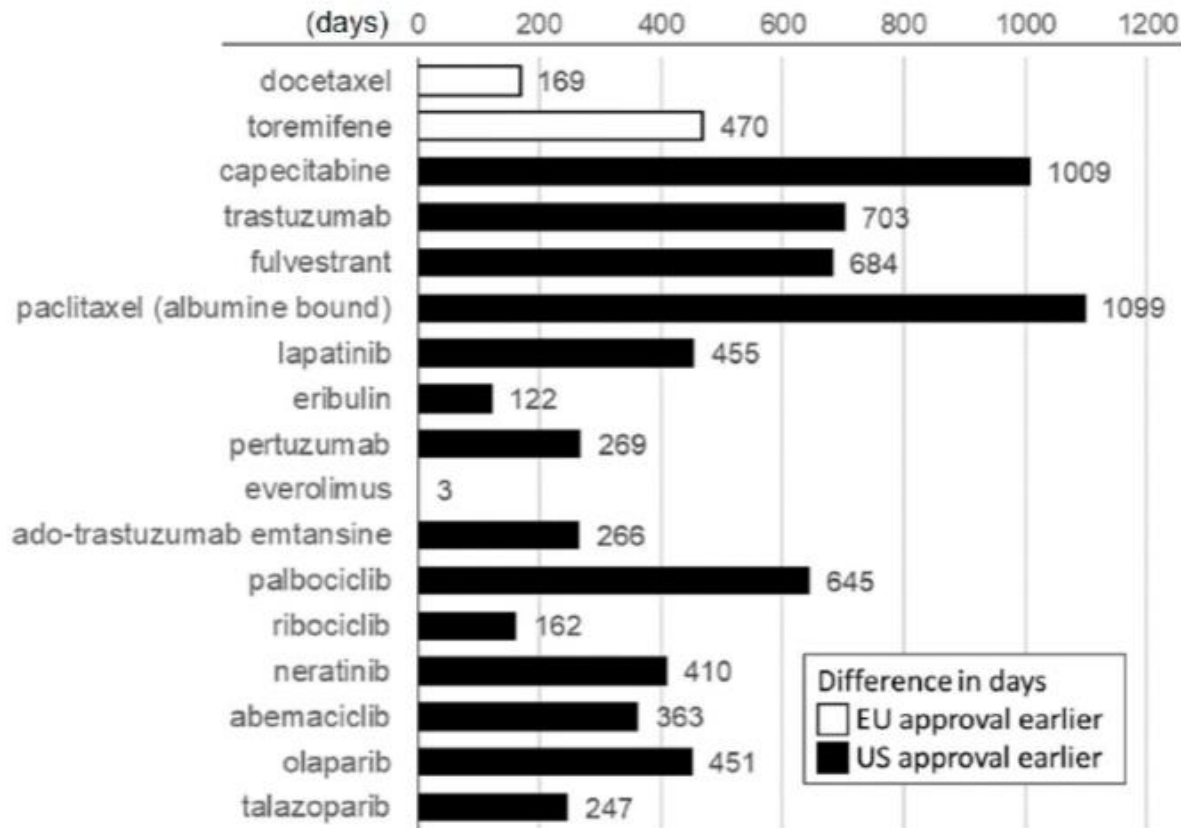
Table 1. FDA (Food and Drug Administration) and EMA (European Medicines Agency) new drug approvals for breast cancer (1995–2018).

Generic Name	Brand Name	FDA Approval & Regulatory Designations						EMA Approval & Regulatory Designations				
		Year	Accelerated Approval (AA)	Fast Track (FT)	Breakthrough Therapy (BT)	Priority Review (PR)	Orphan Drug	Year	CMA/ExC	PRIME	Accelerated Assessment	Orphan Drug
anastrozole	Arimidex	1995	-	-	-	-	-	pre-EMA	n/a	n/a	n/a	n/a
goserelin	Zoladex	1995	-	-	-	-	-	pre-EMA	n/a	n/a	n/a	n/a
letrozole	Femara	1997	-	-	-	-	-	pre-EMA	n/a	n/a	n/a	n/a
epirubicin	Ellence	1999	-	-	-	PR	Orph	pre-EMA	n/a	n/a	n/a	n/a
exemestane	Aromasin	1999	-	-	-	-	Orph	pre-EMA	n/a	n/a	n/a	n/a
gemcitabine	Gemzar	2004	-	-	-	PR	-	pre-EMA	n/a	n/a	n/a	n/a
raloxifene	Evista	2007	-	-	-	-	Orph	not BC	n/a	n/a	n/a	n/a
ixabepilone	Ixempra	2007	-	-	-	PR	-	none	n/a	n/a	n/a	n/a
doxorubicin non-PEG	Myocet	none	n/a	n/a	n/a	n/a	n/a	2000	-	-	-	-
ibandronic acid	Bondronat	not BC	n/a	n/a	n/a	n/a	n/a	2003	-	-	-	-
doxorubicin PEG	Doxil	not BC	n/a	n/a	n/a	n/a	n/a	2003	-	-	-	-
docetaxel	Taxotere	1996	AA(+)	-	-	PR	-	1995	ExC(+)	-	-	-
toremifene	Fareston	1997	-	-	-	-	Orph	1996	-	-	-	-
capecitabine	Xeloda	1998	AA(+)	-	-	PR	-	2001	-	-	-	-
trastuzumab	Herceptin	1998	-	FT	-	PR	-	2000	-	-	-	-
fulvestrant	Faslodex	2002	-	-	-	-	-	2004	-	-	-	-
paclitaxel (alb. bound)	Abraxane	2005	-	FT	-	-	-	2008	-	-	-	-
lapatinib	Tykerb	2007	-	FT	-	PR	-	2008	CMA(+)	-	-	-
bevacizumab	Avastin	(2008)	AA(-)	-	-	(PR)	-	2007	-	-	-	-

Source: https://www.researchgate.net/publication/339386193_FDA_and_EMA_Approvals_of_New_Breast_Cancer_Drugs-A_Comparative_Regulatory_Analysis

The clash of the titans FDA vs EMA

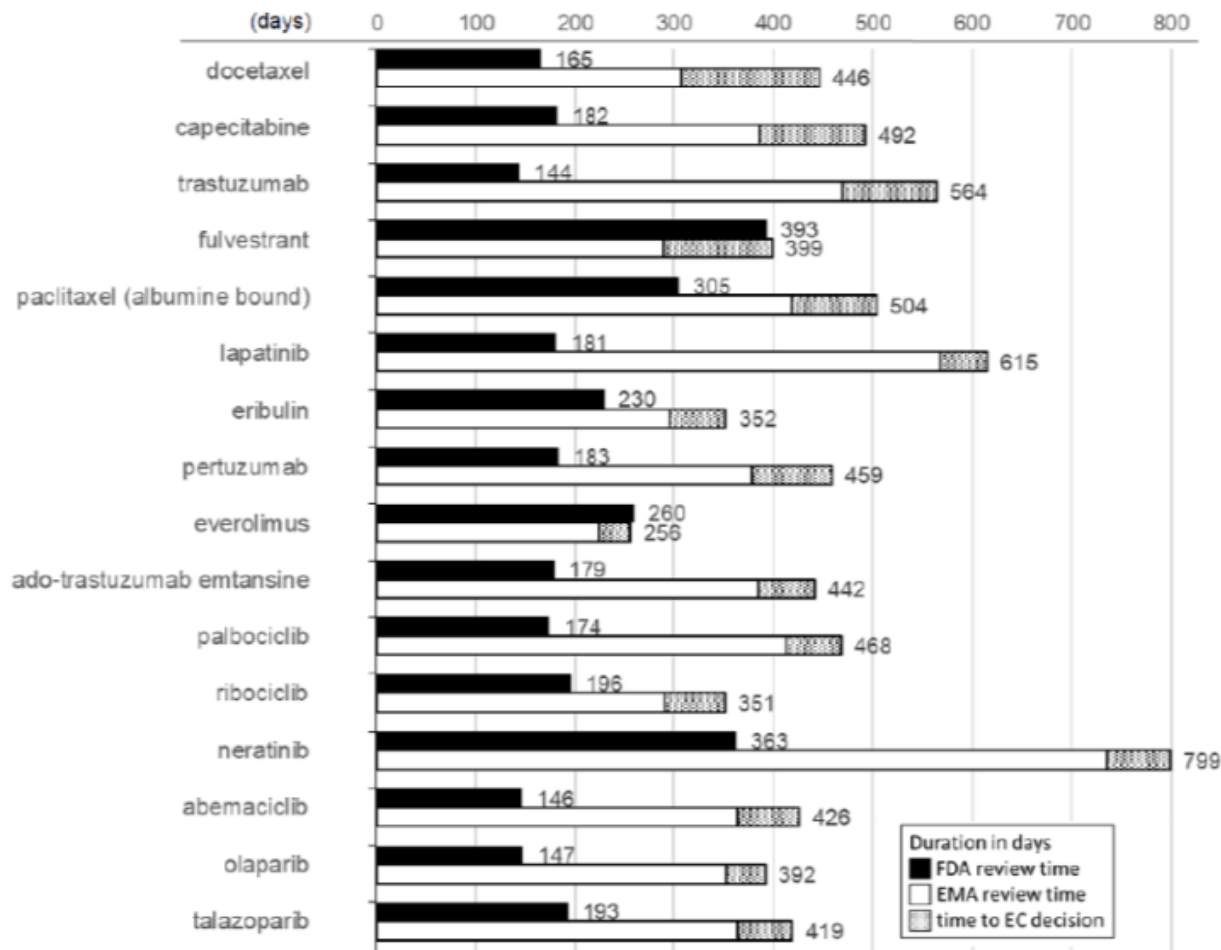
Figure 1. “Approval lag” between the U.S.A. and Europe, based on the relative timing of first approval for breast cancer.



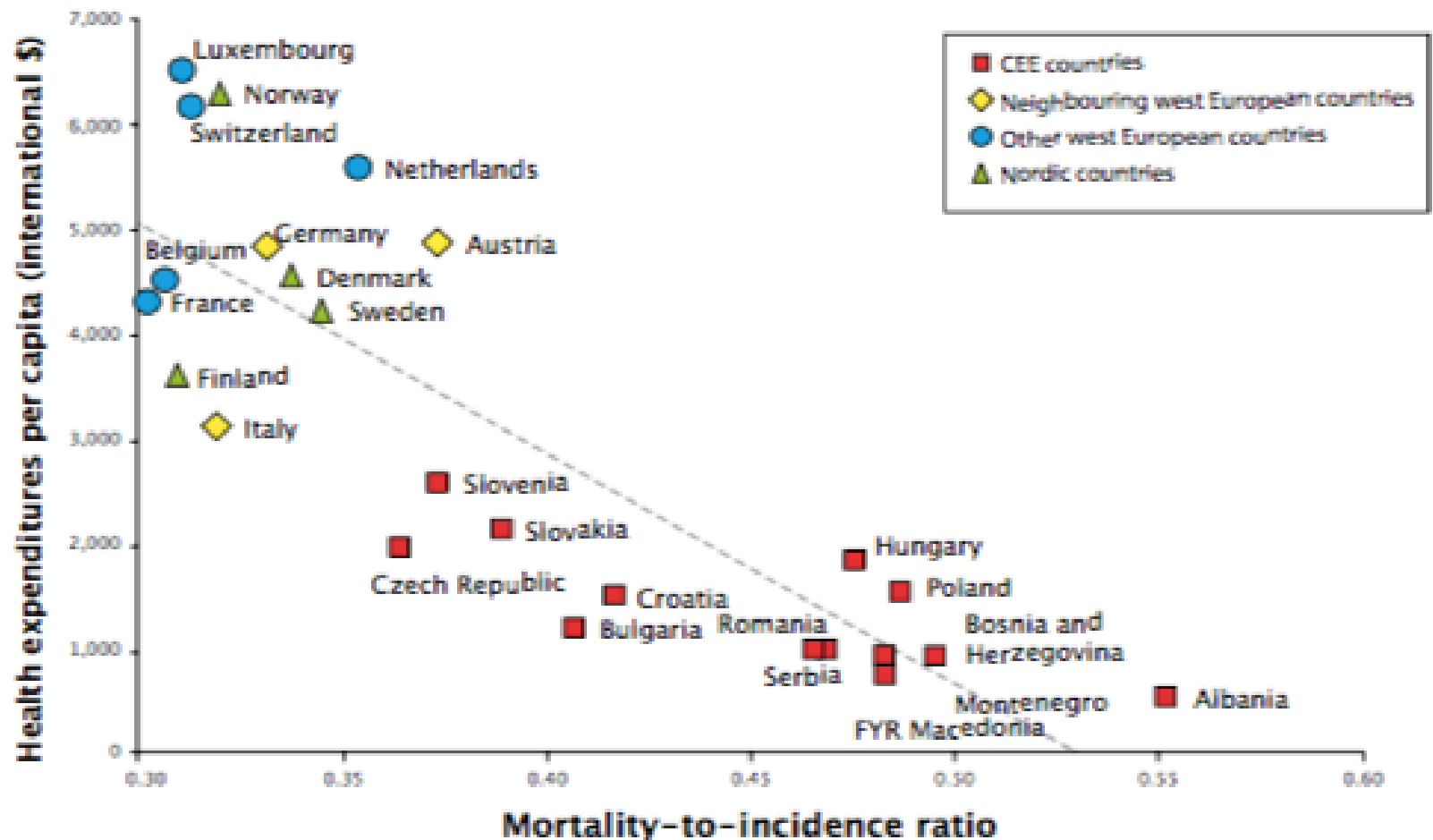
Source: https://www.researchgate.net/publication/339386193_FDA_and_EMA_Approvals_of_New_Breast_Cancer_Drugs-A_Comparative_Regulatory_Analysis

The clash of the titans FDA vs EMA

Figure 2. Duration of approval process in the U.S.A. vs. Europe, based on time from NDA (New Drug Application) or MAA (Marketing Authorization Application) submission to approval.



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Sources: <https://cancerworld.net/systems-services/bad-for-budgets-but-also-for-patients-challenging-the-in-patient-culture-of-central-and-eastern-europe/>

Is it white?

- Shortage of essential oncology drugs

WHO: Shortages of essential drugs are becoming increasingly frequent globally, burdening health systems with additional costs and posing risks to the health of patients who fail to receive the medicines they need.

Our role? Advocating for equal access to quality treatment and for cancer prevention

Country	Extent of the shortages
Germany	27 (2017)
France	35 (2017)
Ireland	Over 200 (2017)
Spain	244 (2017)
Romania	Over 500 (2017)
Slovenia	60% of hospital pharmacists said they experience shortages on a weekly basis (2014)

*Source: National Medicines Agencies' websites #
(last checked 15 May 2017)*

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Shortage of essential oncology drugs

Figure 3. Countries in Europe where there was a list of medicines shortages as of 2017



Source: EIU research; Pauwels et al. 2014²⁰

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Shortage of essential oncology drugs

NEW CANCER MEDICATIONS WITH AN ESMO-MAGNITUDE OF CLINICAL BENEFIT SCALE SCORE >3: COUNTRIES OUTSIDE EUROPE

AVAILABILITY

	Always
	Usually
	Half the time
	Occasionally
	Never
	Not available
	Missing data

		COST AND AVAILABILITY																
Level Economic Development	Country	Avastin (MSK)	PDMA-1 (MSK)	Erbit (Lung)	Erbit (Breast)	Avastin (Lung)	Erbit (Lung)	Erbit (Breast)	Erbit (Lung)	Erbit (Breast)	Erbit (Lung)	Erbit (Breast)	Erbit (Lung)	Erbit (Breast)	Erbit (Lung)	Erbit (Breast)	Erbit (Lung)	Erbit (Breast)
	ESMO-MCBS	4	3	4	4	4	4	4	4	4	4	4	4	4	3	3	4	A/3
High Income	Argentina																	
	Australia																	
	Canada																	
	Chile																	
	Cyprus																	
	Israel																	
	Japan																	
	Korea, South																	
	Qatar																	
	United Arab Emirates																	
Upper middle Income	Algeria																	
	Brazil																	
	China																	
	Colombia																	
	Iran																	
	Kazakhstan																	
	Lebanon																	
	Malaysia																	
	Mexico																	
	Pakistan																	
Lower middle income	South Africa																	
	Thailand																	
	Turkey																	
	Ukraine																	
	Vietnam																	
	Zambia																	
	Algeria																	
	Brazil																	
	China																	
	Colombia																	
Low income	Iran																	
	Kazakhstan																	
	Lebanon																	
	Malaysia																	
	Mexico																	
	Pakistan																	
	South Africa																	
	Thailand																	
	Turkey																	
	Ukraine																	

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EUROPEAN PARLIAMENT LAUNCH OF THE ECONOMIST INTELLIGENCE UNIT- ESMO REPORT ON HOW TO PREVENT AND MANAGE CANCER MEDICINES SHORTAGES IN EUROPE

**INEXPENSIVE
BUT ESSENTIAL**

Calling for a better European Supply
of Essential Cancer Medicines

CO-CHAIRS
Alojz Peterle MEP
Lieve Wierinck MEP
Françoise Grossetête MEP

17 MAY | 16:00 - 18:00
EUROPEAN PARLIAMENT STRASSBOURG
ROOM N3.5



Cancer medicines shortages in Europe Policy recommendations to prevent and manage shortages

A report by The Economist Intelligence Unit
Supported by the European Society for Medical Oncology



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RECOMMENDATIONS

1. **Introduce legislation** for early notification requirements for medicines shortages.
2. **Establish European strategic plans** for medicines shortages.
3. **Introduce incentives for production infrastructure improvements** including financial incentives to address the economic causes of manufacturing issues. Incentives for suppliers to remain in these markets should also be considered.
4. **Develop catalogues of shortages** based on a common minimum set of data requirements, including a common EU definition of medicines shortages.
5. **Develop national essential medicines lists** based on the World Health Organization's Model List of Essential Medicines.
6. **Establish procurement models** designed to prevent medicines shortages, including tender-cycle harmonisation.

KEY STEPS

- 1 Develop an EU-wide study on the issue of medicines shortages and their overarching impact on the European Union through independent EU advisory bodies on social and economic affairs.
- 2 Work towards creating a common definition of medicines shortages in the European Union.
- 3 Position inexpensive essential medicines shortages as a key political priority for the European Union's 2019-2024 legislature.

Is it red?

Table 10: Sales of cancer medicines by cancer type in Europe, 2018

Cancer type	Chemical name	Sales (million €)	Year of EMA approval
Breast cancer	trastuzumab	1803.2	2000
	palbociclib	854.3	2016
	pertuzumab	847.9	2013
	trastuzumab emtansine	334.9	2013
	fulvestrant	278.0	2004
	docetaxel	246.0	1995
	eribulin	91.6	2011
	ribociclib	60.6	2017
	lapatinib	47.0	2008
	abemaciclib	0.5	2018
	toremifene	0.1	1996

Is it red?

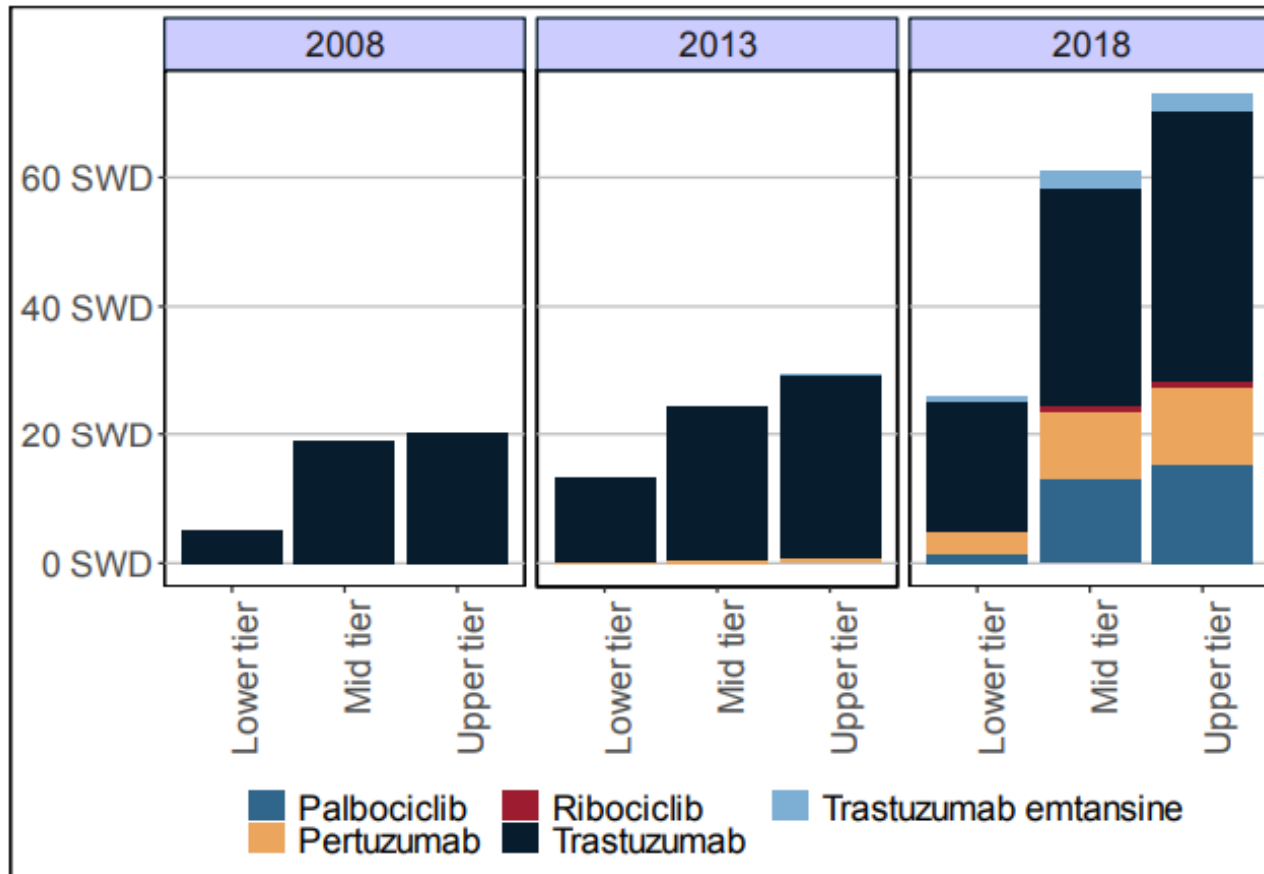


Figure 56: Uptake of medicines in breast cancer expressed as sales in SWD per case – groups of countries

Is it red?

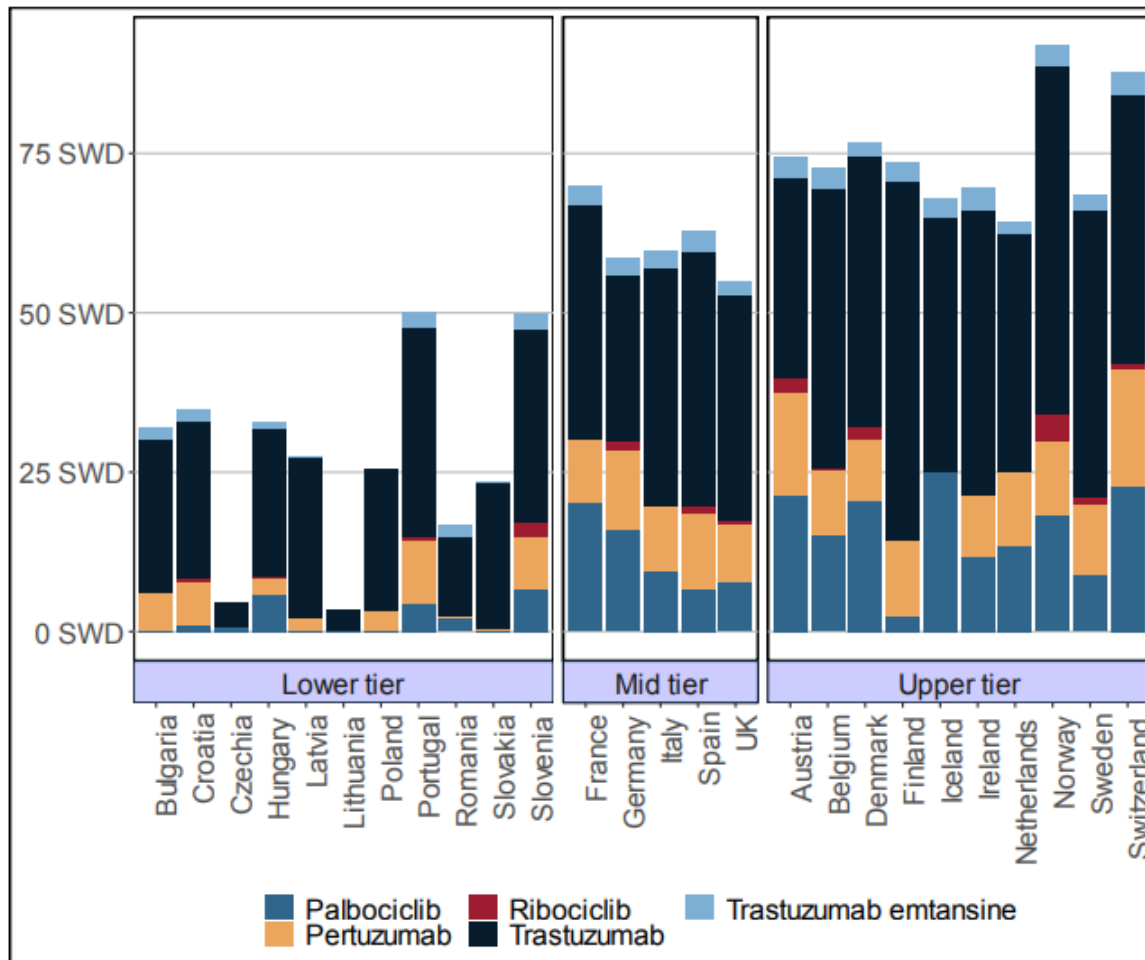


Figure 57: Uptake of medicines in breast cancer expressed as sales in SWD per case, 2018

Red! Red! Red! Romania case

- **Tyverb (DCI LAPATINIBUM)**

Authorization (centralized procedure) Decision of the European Medicines Agency - June 2008

National HTA evaluation

a) Submission of the medical technology evaluation file for all 3 lines - August 2014

- a) Publication of ETM report with positive decision - "in combination with an aromatase inhibitor for women with metastatic disease with hormonal receptors present, postmenopausal, for whom chemotherapy is not currently indicated" - April 2015
- b) Publication of the report of ETM with negative decision - "in combination with capecitabine, in patients with advanced or metastatic breast cancer, progressive following previous therapies, which must have included anthracyclines and taxanes and trastuzumab therapy, in metastatic context" - April 2015
- c) Publication of the report of ETM with negative decision - "in combination with trastuzumab, in patients with metastatic disease with hormone receptors absent, progressive following previous therapies with trastuzumab in combination with chemotherapy" - April 2015

* Publication of the protocol - December 2016

Red! Red! Red! Romania case

Submission of the medical technology evaluation file for line 1 - June 2017

- a. Publication of ETM report with positive decision - "in combination with capecitabine, in patients with advanced or metastatic breast neoplasm, progressively following previous therapies, which should have included anthracyclines and taxanes and trastuzumab therapy, in metastatic context" - July 2017

* Update of the protocol - February 2018

Conclusion: Tyverb is currently compensated in Romania for 1st and 3rd therapeutic lines.

Red! Red! Red! Romania case

- **Kisqali (DCI RIBOCICLIBUM)**

Authorization (centralized procedure)

Decision of the European Medicines Agency - August 2017

National HTA evaluation

a) Submission of the medical technology evaluation file - July 2018


- a. Publication of ETM report with positive decision - "in combination with an aromatase inhibitor is indicated for the treatment of postmenopausal women, with breast cancer, in advanced stage or locally metastasized, with hormone receptors (RH) positive and without factor 2 receptor epidermal growth factor (HER2), as initial hormone therapy "with addressability for patients receiving ribociclibum in combination with letrozole, in the absence of symptomatic visceral impairment with major implications on short-term life prognosis - July 2019
- b. Publication of the report ETM with negative decision - "in combination with an aromatase inhibitor is indicated for the treatment of postmenopausal women, with breast cancer, in advanced stage or locally metastasized, with hormone receptors (HR) positive and without human factor receptor 2 epidermal growth factor (HER2), as initial hormone therapy, with addressability for patients receiving ribociclibum treatment in combination with other aromatase inhibitors, except letrozole - July 2019

**** Publication of the protocol - not yet published***

Conclusion: Kisqali has not yet been introduced in GD 720/2008, but patients have access to treatment through an access program provided by the company, for the indication for which a positive decision was received from ANMDMR.

Is it blue?

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Recruiting	Study of Nivolumab Versus Placebo in Participants With High-Risk Breast Cancer	<ul style="list-style-type: none"> Breast Cancer 	<ul style="list-style-type: none"> Biological: nivolumab Drug: paclitaxel (PTX) Other: nivolumab placebo (and 4 more...) 	<ul style="list-style-type: none"> Local Institution Mobile, Alabama, United States Marin Cancer Care, Inc Greenbrae, California, United States Local Institution Los Angeles, California, United States (and 165 more...)
2	<input type="checkbox"/>	Recruiting	A Study Of Ipatasertib in Combination With Atezolizumab and Paclitaxel as a Treatment for Participants With Locally Advanced or Metastatic Triple-Negative Breast Cancer.	<ul style="list-style-type: none"> Triple-Negative Breast Cancer 	<ul style="list-style-type: none"> Drug: Atezolizumab Drug: Ipatasertib Drug: Paclitaxel (and 2 more...) 	<ul style="list-style-type: none"> USA Mitchell Cancer Institute Mobile, Alabama, United States Highlands Oncology Group Fayetteville, Arkansas, United States CBCC Global Research Inc., at Comprehensive Blood and Cancer Center Bakersfield, California, United States (and 303 more...)
3	<input type="checkbox"/>	Recruiting	A Study Comparing Atezolizumab (Anti PD-L1 Antibody) In Combination With Adjuvant Anthracycline/Taxane-Based Chemotherapy Versus Chemotherapy Alone In Patients With Operable Triple-Negative Breast Cancer	<ul style="list-style-type: none"> Triple Negative Breast Cancer 	<ul style="list-style-type: none"> Drug: Atezolizumab Drug: Paclitaxel Drug: Dose-dense Doxorubicin or dose-dense Epirubicin Drug: Cyclophosphamide 	<ul style="list-style-type: none"> John Muir Health Clinical Research Center Concord, California, United States Cedars-Sinai Medical Center Los Angeles, California, United States Martin-O'Neil Cancer Center Saint Helena, California, United States (and 425 more...)


[Activate Windows now](#)
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Romania status: not recruiting yet

Is it blue?

Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Recruiting	Study of Nivolumab Versus Placebo in Participants With High-Risk Breast Cancer	<ul style="list-style-type: none"> Breast Cancer 	<ul style="list-style-type: none"> Biological: nivolumab Drug: paclitaxel (PTX) Other: nivolumab placebo (and 4 more...) 	<ul style="list-style-type: none"> Local Institution Mobile, Alabama, United States Marin Cancer Care, Inc Greenbrae, California, United States Local Institution Los Angeles, California, United States (and 165 more...)
2	<input type="checkbox"/>	Recruiting	A Study Of Ipatasertib in Combination With Atezolizumab and Paclitaxel as a Treatment for Participants With Locally Advanced or Metastatic Triple-Negative Breast Cancer.	<ul style="list-style-type: none"> Triple-Negative Breast Cancer 	<ul style="list-style-type: none"> Drug: Atezolizumab Drug: Ipatasertib Drug: Paclitaxel (and 2 more...) 	<ul style="list-style-type: none"> USA Mitchell Cancer Institute Mobile, Alabama, United States Highlands Oncology Group Fayetteville, Arkansas, United States CBCC Global Research Inc., at Comprehensive Blood and Cancer Center Bakersfield, California, United States (and 303 more...)
3	<input type="checkbox"/>	Recruiting	A Study Comparing Atezolizumab (Anti PD-L1 Antibody) In Combination With Adjuvant Anthracycline/Taxane-Based Chemotherapy Versus Chemotherapy Alone In Patients With Operable Triple-Negative Breast Cancer	<ul style="list-style-type: none"> Triple Negative Breast Cancer 	<ul style="list-style-type: none"> Drug: Atezolizumab Drug: Paclitaxel Drug: Dose-dense Doxorubicin or dose-dense Epirubicin Drug: Cyclophosphamide 	<ul style="list-style-type: none"> John Muir Health Clinical Research Center Concord, California, United States Cedars-Sinai Medical Center Los Angeles, California, United States Martin-O'Neil Cancer Center Saint Helena, California, United States (and 425 more...)

Romania status: not recruiting yet

Is it blue?

Barriers - We have identified five major challenges to accessing innovative cancer treatments to be addressed

:

1. Delayed regulatory approval and marketing authorization
2. Limited availability of health insurance and insurance coverage
3. Lagging disease awareness and screening
4. Restricted reimbursement and access
5. Low affordability for patients and their families

Thank you!

Alina Comanescu

Fouder

Community Health Association

Romania

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