PCR45 Rethinking Women's Health - Unpacking the 2024 Women's Health Research Roadmap with A Landscape **Review of Clinical Outcome Assessments (COA), Health Agency Recommendations** and Drug Label Claims with COA Related to Women's Health

Stott T¹ & Lien S¹; Kraft N¹, Perrier LL¹, Bothorel S¹ - ¹Mapi Research Trust, Lyon, Rhone, France - Contact: tilly.stott@mapi-trust.org

Background

The women's health (WH) gap remains a critical issue in the 2020s^{1,2}. Women spend 25% more of their lives in debilitating health men³. To help bridge the women's health (WH) gap, the FDA's WH Office updated their Research Roadmap in 2024^{4,5}. Selecting appropriate clinical outcome assessments (COAs) and endpoints was cited once more as a key priority area. In our previous WH we reviewed COAs developed in a female population and their use in labels and guidelines.

Objective



Therapeutic Areas	
Greatest Number of COAs	Least Number
Neoplasms (n=267 COAs, 51%) 11% (n=30) in an all-female development population 50% were (n=15) for breast neoplasms 	Cardiovascular diseases • 0 in all-female develop
Diabetes (n=118 COAs, 22%)0 in all-female development population	 Psychological phenomena 4% (n=1) in an all-female developme women with bree
 Substance-related disorders (n=53, 10%) 0 in all-female development population 	 Musculoskeletal diseases 34% (n=9) in an all-female d All-female COAs were for osteopore





3 Whiting, K. (2024) "Women's health gap: 6 conditions that highlight gender inequality in healthcare". World Economic Forum. Available at: https://www.weforum.org/stories/2024/10/women-health-gap-healthcare-gender/ [Accessed on 27-11-2024]. 4 FDA Office of Women's Health (OWH). (2024) "Women's Health Research Roadmap". FDA. Available at: https://www.fda.gov/consumers/about-owh-research/womens-health-research-roadmap [Accessed on 27-11-2024]. 5 Food and Drug Administration (FDA). (2015) Women's Health Research Roadmap 2015. [Accessed on: 10-03-2024]. 6 Access ePROVIDETM at: https://eprovide.mapi-trust.org/

11 Regensteiner JG, McNeil M, Faubion SS, Bairey-Merz CN, Gulati M, Joffe H, Redberg RF, Rosen SE, Reusch JE, Klein W. Barriers and solutions in women's health research and clinical care: a call to action. Lancet Reg Health Am. 2025 Mar 14;44:101037.

To explore the WH COA landscape by identifying COA availability, as well as their presence in regulatory guidance and drug label

7 Modi N. (2022) "Closing the gender health gap: the importance of a Women's health strategy". BMA. Available at: https://www.bma.org.uk/news-and-opinion/closing-the-gender-health-gap-the-importance-of-a-women-s-health-strategy [Accessed on 04-12-2024]. 8 Cherepanov D, Palta M, Fryback DG, Robert SA. Gender differences in health-related quality-of-life are partly explained by sociodemographic and socioeconomic variation between adult men and women in the US: evidence from four US nationally representative data sets. Qual Life Res. 2010 Oct;19(8):1115-24. 9 McIntosh SA, Alam F, Adams L, Boon IS, Callaghan J, Conti I, Copson E, Carson V, Davidson M, Fitzgerald H, Gautam A, Jones CM, Kargbo S, Lakshmipathy G, Maguire H, McFerran K, Mirandari A, Moore N, Moore R, Murray A, Newman L, Robinson SD, Segaran A, Soong CN, Walker A, Wijayaweera K, Atun R, Cutress RI, Head MG. Global funding for cancer research between 2016 and 2020: a content analysis of public and philanthropic investments. Lancet Oncol. 2023 Jun;24(6):636-645. 10 Haghighat S, Jiang C, El-Rifai W, Zaika A, Goldberg DS, Kumar S. Urgent need to mitigate disparities in federal funding for cancer research. J Natl Cancer Inst. 2023 Oct 9;115(10):1220-1223.

	Main Outcomes	
l th than	 527 COAs were identified which covered 254 differe 	
	developed in an all-female population	
l study	 Lowest number of COAs for cardiovascular diseases 	
	(n=23 COAs, 4%), and m	usculoskeletal diseases (n=
	 21 guidelines identified 	including 9 COAs – none of
claims	population	
ciainis.	 106 labels encompassing 	g 48 COAs (8 of which were
	 FDA have approved mor 	'e labels in these therapeut
	more COAs in EIVIA appr	oved labels than FDA labels
	Euturo Diroction	
	ruture Direction	
	• Further research into car	rdiovascular and musculosk
	 Remains a need to devel 	lop COAs with women whic
	Need for more guidance	e on how to capture womer
<i>*With COA</i>	 More COAs developed to 	br women to be used in lab
nding to the R	loadmap's recommended therapeutic	PROLABELS was searched by therap
who publishe	d 6 and 5 guidelines with COAs	39 therapeutic indications. 8 COAs
B therapeutic on.	indications. None of the named	Therapeutic Areas
		Most Common Therapeu
eas. Most commo	n therapeutic areas were obesity (EMA= 2; FDA= 1	Breast neoplasms (n=30 labels; FDA=1 Breast neoplasms (n=25 labels; FDA=1
deline), as well as two guidelines from the EMA on diabetes . Both for CINV (EMA=2; FDA=5 named COAs) and neoplasms as well for the Diabetes (n=24 labels; FDA= and drug label date		
		COAs developed in a femal
ended more prim n=2 endpoints re	ary and secondary endpoints with COA espectively). However, FDA and EMA recommended	Endpoint Positioning
ally named 5 COA As for endpoints v	s for not specified endpoint use whereas the EMA vith COA recommendations.	Distribution of endpo
		 Primary endpoints Secondary endpoints
DA:		Tertiary/Explorator
PROMIS Item EORTC-QLQ-C	Bank v1.0 – Severity of Substance Use	5 COAs developed in a female-specific population were for secondary endpoints
PRO-CTCAE NSCLC-SAQ	 <u>EMA:</u> Functional Living Index - Emesis 	1 was exploratory, 4 were not specified
FACIT		
		Concept of Interest
idelines) in comp	arison to 2005-2014 (n=5 guidelines):	
delines published in this period delines published in this period		concepts Pain
e linked to the WH Roadmap:		measured by specific COAs
DA recommendat	ions than the FDA (n=15 guidelines) ions than the EMA (n=36 guidelines)	Health-Related Quality of Life
ideration for:	FDA - Main consideration for:	
are at higher risk mmended this be	• CINV : suggested that female sex to be adjusted for in statistical analysis as this	Slightly more labels were approved between the second
nical trial	 can impact efficacy outcomes. HIV: consideration for trials in pregnant 	2024 (n=42 labels) than 2005-2014 (n=38
discussion of how anifests differently	y in determination because of the variable	FDA (n=22 labels) than the EMA (n=20 lal
it focus on	historical evidence of HIV prevention	More COAs have been used in 2015-2024

icacy in at-risk wom

COAs) than FDA (n=19 COAs). However, c

ent **therapeutic indications. 9%** (n=47) were

s (n=12 COAs, 2%), psychological phenomena =26 COAs, 5%) which were developed in an **all-female**

developed in an **all-female population**) tic areas **since 2015** than the EMA, but there are

keletal diseases, and psychological phenomena ch are **specific for women's health needs** n's health needs in COA measurement **bels** targeting WH priority **therapeutic** areas

peutic indications corresponding to the Roadmap's recommended therapeutic ieved 106 labels encompassing 48 named COAs across 99 endpoints and for s used were developed in an all-female population.

tic Areas	Least Common Therapeutic Areas		
17/EMA=13)	Cardiovascular disease (n=1 label FDA)		
A=12/EMA=13)	Autoimmune diseases (n=1 label EMA)		
5/EMA=9)	HIV Infections (n=1 label FDA)		
e-specific population: 1 for	postmenopausal osteoporosis and 3 for breast neoplasms		
 Common COAs for FDA primary endpoints: Memorial Pain Assessment Card (pain intensity) (n=4 endpoints) Karnofsky Performance Status (performance status) (n=4 endpoints) Karnofsky Performance Status (performance status) (n=4 endpoints) EMA only had one label with a named COA used to measure a primary endpoint: Severity Weighted Assessment Tool (complete response) Endpoints were largely measured by PROs (n=104) compared to ClinROs (n=72) or composite (n=48) 			
 Pain was measured by COAs for 6 FDA and 5 EMA label endpoints Pain most frequently measured by: EMA: EORTC QLQ-C30 (2 endpoints) and Brief Pain Inventory (2 endpoints) FDA: Memorial Pain Assessment Card (n=4 endpoints) HRQoL was measured by COAs for 12 FDA and 31 EMA label endpoints HRQoL most frequently measured by: EMA: EORTC-QLQ-C30 (n=9 endpoints) FDA: SF-36 Health Survey (n=5 endpoints) 			
Label approvals reflect the guidelines regarding most common therapeutic areas, but we see more primary endpoints with COA than secondary and tertiary - a difference to the guidelines. As with guidelines, there has been an increase in labels published in the last 10 years although the agency split is more equal – even if the presence of COAs in labels per agency is not. bels) (n=48 COAs) versus 2005-2014 (n=32). This increase in COA use is mainly due to EMA labels (n=29 nly 3 female-specific COAs have been used since 2015 vs 9 pre-2015.			

