

Consultation on Potential Enhancement to the Methodology of the MSCI ACWI IMI Virology Index

PROPOSAL FOR CONSULTATION

This consultation may or may not lead to the implementation of any or all of the proposed changes in the highlighted or any other MSCI indexes. Consultation feedback will remain confidential. MSCI may publicly disclose feedback if specifically requested by specific market participants. In that case, the relevant feedback would be published together with the final result of the consultation.

July 2024

Timeline

MSCI presents a consultation on a potential enhancement to the MSCI ACWI IMI Virology Index methodology.

MSCI invites feedback from market participants by September 15, 2024 and will announce the consultation results and implementation timeline (if any) on or before October 15, 2024.



Executive Summary

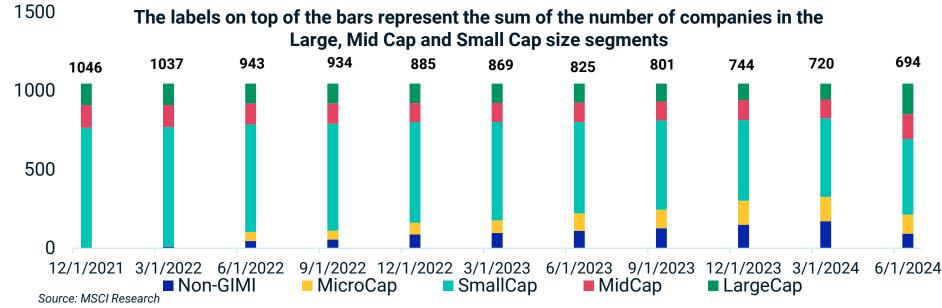
- 1. In March 2022, MSCI launched the first index in the MSCI Life Sciences & Biotech Index suite the MSCI ACWI IMI Virology Index (the 'Index')¹, using the Evaluate Pharma (EP)² data. This was developed in collaboration with Royalty Pharma³.
- 2. The MSCI ACWI IMI Virology Index (the 'Index') aims to represent the performance of a set of companies that are associated with research and development into, as well as the commercialization of anti-viral and vaccine products, which are used to treat a range of infectious diseases, either through their reported/projected worldwide sales or through their commercial clinical trials.
 - Projected sales figures are estimated by EP analysts.
 - <u>Historical</u> reported sales figures for products are provided by EP using company annual reports or broker reports
 - EP does not report historical sales for companies for which broker reports are not available. This means that some eligible companies could be missed by the Index because of lack of historical sales data from EP.
- 3. In addition, there has been a decline in the number of constituents (NOC) of the Parent index since 2021. This has been one of the drivers of the decline in number of constituents in the Index.
- 4. To mitigate further declines in the NOC of the Index due to missing data, we propose to enhance the methodology by using MSCI sales data as a fallback when the company's historical sales are not reported by EP.
- 5. This fallback mechanism is already present in the MSCI ACWI IMI Immuno-oncology Index methodology.
 - 1. More details about ACWI IMI Virology Index: https://www.msci.com/index/methodology/latest/ACWIIMIVirology
 - 2. More details on Evaluate Pharma: https://www.evaluate.com/
 - 3. More details on Royalty Pharma: https://www.royaltypharma.com/



The declining number of constituents of the MSCI ACWI IMI Healthcare Index

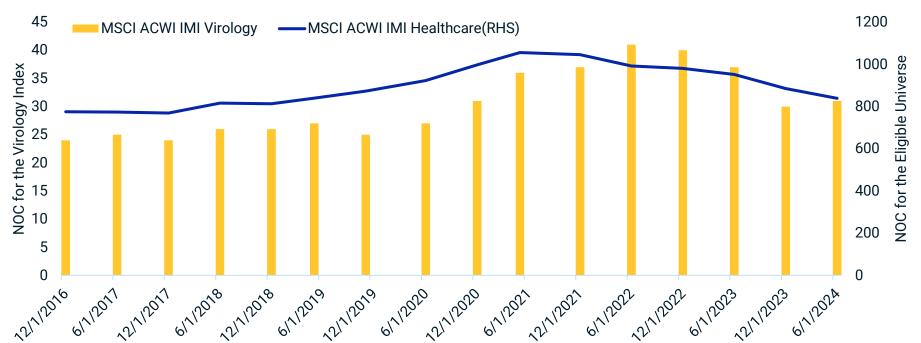
The following chart traces the evolution of the NOC of the MSCI ACWI IMI Healthcare Index from- 01 Dec'21 over time:

It shows a gradual increase in stocks being re-classified to Micro caps or out of the GIMI families*. Consequently, we can see that there is a decline in NOC of the MSCI ACWI IMI Healthcare index over time.



The MSCI ACWI IMI Virology index has seen a decrease in number of constituents since June 2022

The Eligible Universe: MSCI ACWI IMI Healthcare index





Example to illustrate the fallback mechanism

To be eligible for selection in the Index, the security must have **non-zero revenue at the company level** and must satisfy at least one of the below conditions:

- 1. Clinical Trials Exposure to a therapeutic subcategory >=25%, OR
- 2. Proportion of revenue from a therapeutic subcategory >=25%, OR
- 3. Market share of participants in clinical trials for a therapeutic subcategory >=1%, OR
- 4. Market share of revenue from a therapeutic subcategory >= 1%

For more details of the live methodology, please refer to the Appendix

Example: Although Abivax is a pure-play company, it is neither selected in the proposed nor in the live index because of missing EP sales or missing MSCI sales data. However, Kalbe Farma would be selected in the Proposed index using the MSCI fundamental sales data fallback because it satisfies the pre-requisite and the clinical trials exposure condition.

ABIVAX SA	KALBE FARMA TBK PT
66.7%	33.3%
0	0
No	No
No	Yes
No	No
No	Yes
	66.7% 0 No No No



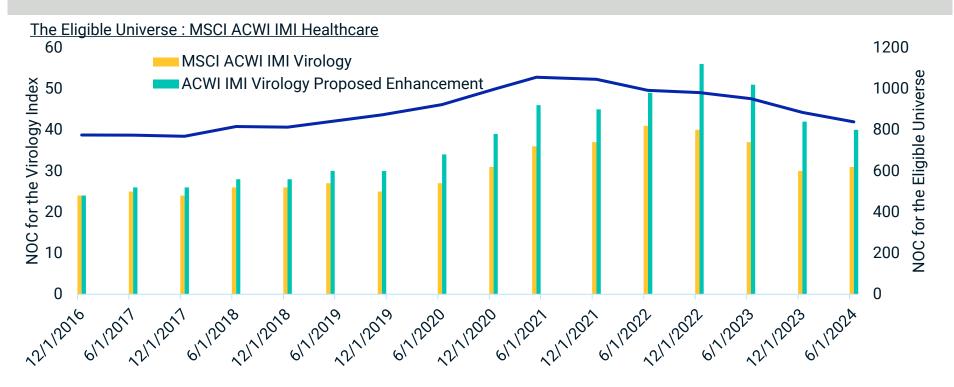
Source: MSCI Research, Evaluate Pharma



Impact of Proposed Enhancement

MSCI ACWI IMI VIROLOGY INDEX

The proposed enhancement would have led to a higher NOC historically in the MSCI ACWI IMI Virology Index





Key Metrics

Kev Metrics

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	MSCI ACWI IMI Health Care	MSCI ACWI IMI Virology	ACWI IMI Virology Proposed Enhancement
Total Return* (%)	10.8	9.6	9.5
Total Risk (%)	13.8	19.3	18.8
Return / Risk	0.78	0.50	0.50
Sharpe Ratio	0.64	0.39	0.40
Active Return (%)	0.0	-1.2	-1.3
Tracking Error (%)	0.0	11.7	11.1
Information Ratio		-0.10	-0.12
Historical Beta	1.00	1.12	1.10
Number of Constituents***	893	30	37
Current Number of Constituents	842	31	40
Turnover** (%)	1.9	27.1	27.7
Price to Book***	4.0	3.8	3.8
Price to Earnings***	27.9	60.1	51.3
Dividend Yield*** (%)	1.7	2.1	2.1

Period: Nov 30, 2016 to Jun 26, 2024. * Gross returns annualized in USD ** Annualized one-way index turnover over index reviews *** Monthly averages

Performance (%)

	MSCI ACWI IMI Health Care	MSCI ACWI IMI Virology	ACWI IMI Virology Proposed Enhancement
YTD	7.2	8.9	7.6
1 Yr	11.5	6.9	6.2
3 Yr	2.4	-3.3	-3.7
5 Yr	9.5	8.1	8.0
10 Yr			

Gross returns for the period ending Jun 26, 2024. Returns are annualized for periods longer than a year



For the May 2024 SAIR, the proposed enhancement would have led to a higher one-way index turnover vs. the live MSCI ACWI IMI Virology Index

One-way index turnover, May 2024 SAIR	Due to Additions	Due to Deletions	Due to Maintained securities	Turnover
Live Index*	2.16%	4.82%	7.92%	14.90%
Proposed Index**	5.89%	4.82%	7.06%	17.78%

^{*} Measured as the one-way index turnover of the current index as of May 31, 2024, and the current index as of Jun 3, 2024

Historical One-way Turnover Stats***	Mean	S.D.	Mean + S.D.	Mean - S.D.
Live Index	13.55%	4.44%	17.99%	9.1%

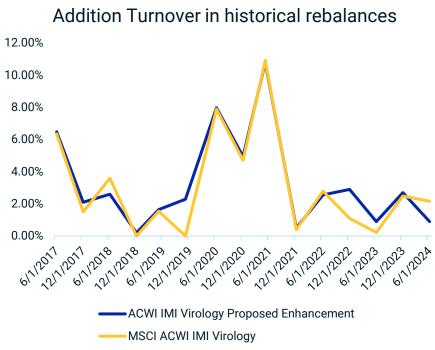
Source: MSCI Research

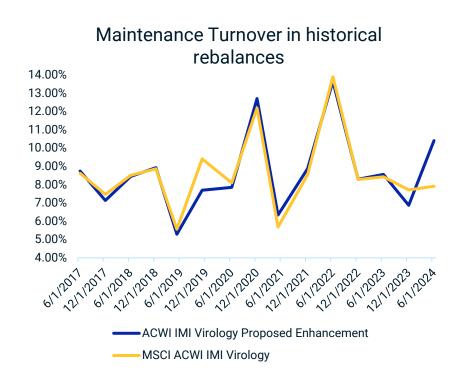


***Date range : 30th Nov 2016 to 26th Jun 2024

^{**}Measured as the one-way index turnover of the current index as of May 31, 2024, and the proposed index as of Jun 3, 2024

Comparison of one-way index turnover due to additions and maintained securities







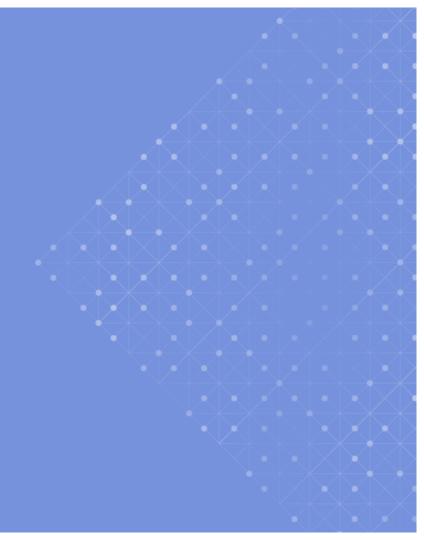
Consultation question

• Do you agree that the methodology of the MSCI ACWI IMI Virology Index should be enhanced to use the proposed fallback mechanism?





Appendix



Scoring Methodology for Category Indexes – As per the MSCI ACWI IMI Virology Index methodology

- Companies are engaged in both scientific and commercial activities -
 - 1. Scientific Focus Measured through Trials and Enrollments
 - 2. Commercial Focus Measured through current and projected revenue linked to products
- Degree of company's exposure to a category is measured in two ways
 - 1. Category's share in Company's overall scientific and commercial activity Pure play companies will have high exposure.
 - 2. Company's share in Category's overall scientific and commercial activity A company may not be a pure play but can still own a large share of overall scientific and commercial activity (like a large diversified pharmaceutical company).

	Detail
Company Relative Scores – Measures company's exposure to a category ((1) Trials Score : For a given category, the count of trials sponsored by company as a % of company's total trials.
Indication or Therapy). Category's Relevance for Company	(2) Financial Relevance : For a given category, the company's cumulative revenue between year – 1 and year + 5 (where year is the year of rebalance date) from products linked to the category as a % of company's total cumulative projected revenue between year – 1 and year + 5.
Category Relative Scores – Measures company's share of the category wide trials and revenue.	(3) Share of Enrollments : For a given category, number of participants enrolled in trials sponsored by the company as a % of all participants enrolled in all trials sponsored by all companies*.
Company's Relevance for the Category	(4) Share of Revenue : For a given category, company's cumulative revenue (as defined for score 2) as a % of the total cumulative revenue of all companies*.



Methodology

Index Name	MSCI ACWI IMI Virology Index (Liv	ve)	ACWI IMI Virology Proposed Enhancement Index (Proposed)							
Parent Index	MSCI ACWI IMI									
GICS Selection	Sector - Health Care									
Rebalance Frequency	Semi- Annual	Semi- Annual								
Therapy	Trials and Products linked to Anti-	Trials and Products linked to Anti-Virals and Vaccines sub-therapy are in scope								
Category Score	Vaccines Portfolio: (1) Category Score = Max(Category Trials Score, Category Financial Relevance)	Anti-Virals Portfolio: 1) Category Score = Max(Category Trials Score, Category Financial Relevance)	Vaccines Portfolio: 1) Category Score = Max(Category Trials Score, Category Financial Relevance)	Anti-Virals Portfolio: 1) Category Score = Max(Category Trials Score, Category Financial Relevance)						
Category Score Adjustment	Category Score=0, if Financial Relevance=0	Category Score=0, if Financial Relevance=0	 Category Score = 0, if Company level Cumulative Revenue*=0 and Company's Latest Reported Revenue** = 0, or, Category Financial Relevance = 0 but Company-level Cumulative Revenue>0 	 Category Score = 0, if Company level Cumulative Revenue*=0 and Company's Latest Reported Revenue = 0, or, Category Financial Relevance = 0 but Company-level Cumulative Revenue>0 						

^{*}Company-level Cumulative Revenue (using EP Data) – The sum of reported/forecasted product-level revenues aggregated across all products mapped to the company across -1Y to 6Y; where Y=Year of the Calculation Date.

^{**}Company's Latest Reported Revenue is derived from the MSCI Fundamental Sales Data



Methodology contd..

Index Name	MSCI ACWI IMI Virology Index(Live	Index)	ACWI IMI Virology Proposed Enhanceme	nt Index (Proposed)
Portfolio	Vaccines	Anti-virals	Vaccines	Anti-virals
Eligibility	Category Score>= 25% or Max (Category Share of Revenue, Category Share of Enrollments)>= 1%.	Category Score>= 25% or Max (Category Share of Revenue, Category Share of Enrollments)>= 1%.	Category Score>= 25% or Max (Category Share of Revenue, Category Share of Enrollments) >= 1%.	Category Score>= 25% or Max (Category Share of Revenue, Category Share of Enrollments) >= 1%.
Weighting of sub-Therapy Portfolios	Create Vaccines Portfolio using Market Cap tilted weight using Vaccine Category Score	Create Anti-Virals Portfolio using Market Cap tilted weight using Anti- virals Category Score	Create Vaccines Portfolio using Market Cap tilted weight using Vaccine Category Score	Create Anti-Virals Portfolio using Market Cap tilted weight using Anti- virals Category Score
Weighting(Final Portfolio)	(1) Combine the weights of Vaccines a proportion(2) Maximum security weight is cappe		(1) Combine the weights of Vaccines ar proportion(2) Maximum security weight is capped	·



The following 13 companies would have been added by using the enhanced sales filter over the current methodology, in the Vaccines Portfolio at these respective rebalance dates

Company vs addition by rebalance date due to MSCI fundamental sales in "Vaccines" portfolio

Name of Adds in Different Effective Dates in Vaccines Portfolio	6/1/2018	5/29/2019	11/27/2019	6/1/2020	12/1/2020	5/28/2021	12/1/2021	6/1/2022	12/1/2022	6/1/2023	12/1/2023	6/3/2024	Count of rebals where company is added i Vaccines Portfolio
CHONGQING ZHIFEI A(HK-C)		1	1	1	1	1	1	1	1	1	1	1	11
SINOPHARM GROUP CO H			1	1	1	1	1	1	1	1	1	1	10
СНАВІОТЕСН СО				1	1	1	1	1	1				6
CANSINO BIOLOGICS H						1	1	1			1	1	5
NYKODE THERAPEUTICS									1	1	1	1	4
CANSINO BIO A (HK-C)						1	1	1					3
SK BIOSCIENCE CO									1	1	1		3
EVEREST MEDICINES											1	1	2
ADIMMUNE									1	1			2
ILYANG PHARMACEUTICAL CO	1			1									2
GENEXINE CO LTD									1	1			2
GENEONELIFESCIENCE					1	1							2
VAXART					1	1							2
Count of Adds in Vaccines	1	1	2	4	5	7	5	5	7	6	6	5	

^{**}SinoPharm Group is the only company that has trials in both Vaccines and Anti-virals therapeutic subcategories.



The following 16 companies would have been added by using the enhanced sales filter over the current methodology, in the Antivirals Portfolio at these respective rebalance dates

Company vs addition by rebalance date due to MSCI fundamental sales in "Anti-virals" portfolio

							•									
Name of Adds in Different Effective Dates in Antivirals Portfolio	6/1/201 7	12/1/201 7	6/1/201 8	12/3/201 8	5/29/201 9	11/27/201 9	6/1/202 0	12/1/202 0	5/28/202 1	12/1/202 1	6/1/202 2	12/1/202 2	6/1/202 3	12/1/202 3	6/3/202 4	Count of rebals where company is added in Antivirals Portfolio
TAIGEN																
BIOPHARMACEUTICAL	1	1	1	1	1	1	1	1	1	1	1	1	1	1		14
TAIMED BIOLOGICS						1	1	1	1	1	1	1	1	1	1	10
SIGA TECHNOLOGIES										1	1	1	1	1	1	6
ASCLETIS PHARMA INC				1	1	1	1									4
SINOPHARM GROUP CO H												1	1	1	1	4
YUNNAN BAIYAO A (HK-C)													1	1	1	3
SHANGHAI JUNSHI A (HK-C)												1	1	1		3
KALBE FARMA												1	1	1		3
BIOCON LTD												1	1			2
MOLECULAR PARTNERS								1	1							2
ADICET BIO												1				1
BRII BIOSCIENCES													1			1
KINTOR PHARMACEUTICAL												1				1
CELULARITY												1				1
ASSEMBLY BIOSCIENCES		1														1
WALVAX BIOTECH A (HK-C)															1	1
Count of Adds in Anti-virals	1	2	1	2	2	3	3	3	3	3	3	10	9	7	5	

**SinoPharm Group is the only company that has trials in both Vaccines and Anti-virals therapeutic subcategories.

Country Breakdown of Adds in ACWI IMI Virology Proposed Enhancement in May'24 SAIR

9 additions :	CHINA (6 adds)	NORWAY(1 add)	TAIWAN(1 add)	USA (1 add)
SINOPHARM GROUP CO H	3.22%			
YUNNAN BAIYAO A (HK-C)	2.17%			
TAIMED BIOLOGICS			1.35%	
SIGA TECHNOLOGIES				0.88%
CHONGQING ZHIFEI A(HK-C)	0.26%			
EVEREST MEDICINES	0.25%			
NYKODE THERAPEUTICS		0.18%		
CANSINO BIOLOGICS H	0.15%			
WALVAX BIOTECH A (HK-C)	0.13%			
Total	6.19%	0.18%	1.35%	0.88%



Appendix

Risk and Return Metrics

	Definition
Total Return (%)	Annualized index return
Total Risk (%)	Annualized index risk (based on monthly returns)
Return / Risk	Ratio of annualized return and annualized risk
Sharpe Ratio	The Sharpe ratio is computed as the ratio of index excess returns and annualized total risk where excess return is defined as the difference between the annualized total index return and the risk free rate corresponding to the currency of analysis
Active Return (%)	Difference of the annualized index return and the annualized benchmark return
Tracking Error (%)	Annualized standard deviation of active returns (based on monthly data)
Information Ratio	Ratio of index active return and tracking error (based on monthly data)
Historical Beta	Beta is a measure of the level of co-movement between an index and its benchmark. It is calculated as the correlation between index and benchmark returns multiplied by the ratio of total risk of the index and its benchmark (based on monthly data)
Average Number of Constituents	Average number of constituents (based on monthly data)
Turnover (%)	Annualized Average one-way index turnover over rebalancing dates
Price to Book	Price to book harmonic average (based on monthly data)
Price to Earnings	Price to earnings harmonic average (based on monthly data)
Dividend Yield (%)	Dividend yield (%) average (based on monthly data)
Downside Deviation (%)	Annualized lower semi-deviation of index total returns (based on monthly data)
Sortino Ratio	Ratio of the Average excess return (above a specified Acceptable Return, MAR, assumed to be 0%) and downside deviation
VaR @ 95% (%)	5th percentile of historical index returns (based on monthly data)
VaR @ 99% (%)	1st percentile of historical index returns (based on monthly data)
Expected Shortfall (CVaR) @ 95% (%)	Average of returns below Var @ 95% (based on monthly data)
Expected Shortfall (CVaR) @ 99% (%)	Average of returns below Var @ 99% (based on monthly data)
Maximum Drawdown (%)	Maximum index drawdown (based on daily data)
Maximum Drawdown Period (months)	Maximum index drawdown period (based on daily data)

	Definition		
Skewness	Skewness of index returns (based on monthly data), measures the degree of asymmetry of the return distribution.		
Kurtosis	Kurtosis of index returns (based on monthly data), measures the degree of peakedness of the return distribution.		
Maximum Active Returns Drawdown (%)	Maximum active return drawdown (based on daily data)		
Maximum Active Returns Drawdown Period (months)	Maximum active return drawdown period (based on daily data)		
Active Risk Contribution (%)	Asset active weight multiplied by its marginal contribution to active risk and divided by the total index active risk		
Cross-Sectional Volatility Contributions (%)	Contributions to cross-sectional volatility (based on monthly data, 12-month moving average)		
Thematic Exposure (%)	Weighted average of exposures to thematic relevance scores. Thematic relevance scores are expressed as a percentage to gauge a company's economic linkage to a given theme.		



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