



INDEXES

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Information about the index, including rule book, company description and historic data, can be found at:  
[www.poliwoggindexes.com](http://www.poliwoggindexes.com)

TICKERS:

**Poliwogg Healthcare Innovation Index: PHIX**

**Poliwogg Healthcare Innovation Total Return Index: PHIXTR**

June 2017

Inquire about our custom institutional benchmarking services

**Q2 2017 Review: Poliwogg Healthcare Innovation Total Return Index**

**Index Performance.** The Poliwogg Healthcare Innovation Total Return Index (TICKER: PHIXTR) increased +8.89% from 1617.27 to 1761.08 in the quarter ended June 2017. This compares to an increase in The S-Network 500 Total Return Index (TICKER: SN500T) of +3.26% and an increase in the Dynamic Biotech & Genome Intellidex Total Return Index (TICKER: DZOTR) of +8.30%.

The Poliwogg Healthcare Innovation Total Return Index is up +42.93% in the past 12 months. This compares to a +18.82% rise in The S-Network 500 Total Return Index and +24.01% increase in the Dynamic Biotech & Genome Intellidex Total Return Index .

**Index Description.** The Poliwogg Healthcare Innovation Index (TICKER: PHIX) is designed to capture merger and acquisition opportunities in the pharmaceutical industry. PHIX consists of companies included in the Poliwogg Biopharma Merger & Acquisition Index (PBMA) that pass additional screens .

**Inclusion Criteria.** PHIX consists of companies listed on a US stock exchange and principally engaged in one of the following healthcare sectors: a) biotechnology and b) pharmaceuticals. Constituents must have a market capitalization of no less than \$1 billion and no more than \$50 billion. Constituents must sustain an average daily trading volume in excess of \$1 million for the 90-day period preceding a reconstitution. Constituents must have one or more drugs in either Phase II or Phase III US Food and Drug Administration (FDA) clinical trials which are not in a partnership. Constituents must also have drugs which meet one of the following criteria:

- I. Breakthrough, Fast Track or Orphan drug status
- II. Expected Catalyst within the next 24 months

The number of stocks contained in the PHIX is fixed at 30. If more than 30 companies exhibit the above criteria the index selects the 30 companies with the highest ratio of peak forecasted sales for the drugs in clinical trials to full market capitalization. If fewer than 30 companies exhibit the above criteria the index selects the 30 companies with the highest ratio of peak forecasted sales for the drugs in clinical trials to full market capitalization.

**Weighting Methodology.** The constituents of PHIX are equal weighted .

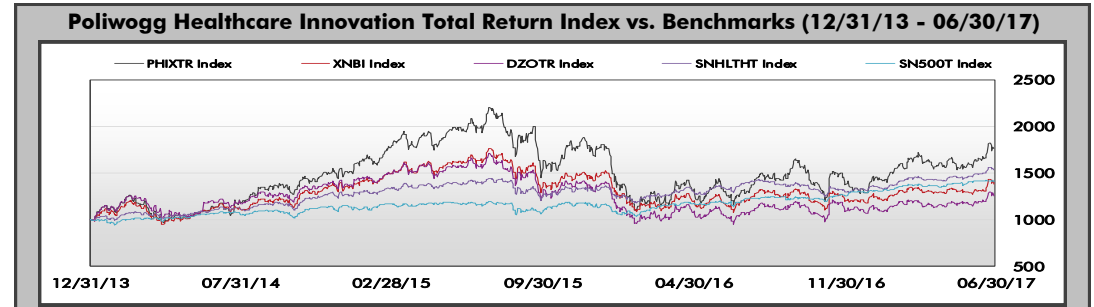
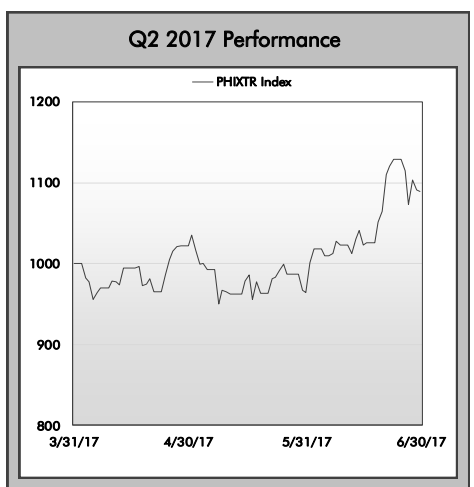
**Rebalancing.** PHIX is reconstituted semi-annually on the third Friday of June and December of each year. In addition, PHIX is rebalanced quarterly on the third Friday of the last month of each calendar quarter .

**Index Data.** PHIX is calculated daily by S-Network Global Indexes. Daily values from December 31, 2013 are available on the Poliwogg website and through various data vendors. End-of-day index values are distributed daily via the NYSE Global Index Feed .

Leading Movers				
Company Name	Ticker	Opening	Closing	Change
PUMA BIOTECHNOLOGY INC.	PBYI US	37.2	87.4	134.95%
LOXO ONCOLOGY INC	LOXO US	42.08	80.19	90.57%
AXOVANT SCIENCES LTD	AXON US	14.94	23.19	55.22%
AMICUS THERAPEUTICS INC	FOLD US	7.13	10.07	41.23%
SUPERNUS PHARMACEUTICALS INC	SUPN US	31.3	43.1	37.70%

Lagging Movers				
Company Name	Ticker	Opening	Closing	Change
COHERUS BIOSCIENCES INC	CHRS US	21.15	14.35	-32.15%
GLOBAL BLOOD THERAPEUTICS INC.	GBT US	36.85	27.35	-25.78%
THE MEDICINES COMPANY	MDCO US	48.9	38.01	-22.27%
HORIZON PHARMA PLC	HZNP US	14.78	11.87	-19.69%
GW PHARMACEUTICALS -ADR	GWPH US	120.94	100.25	-17.11%



\*Note: This chart is a normalized historical graph  
 Data Source: Bloomberg Data as of June 30, 2017

This chart is for illustrative purposes only. Historical information is not indicative of future results; current data may differ from data quoted. Investors cannot invest directly in index. Index returns do not reflect any management fees or brokerage expenses.

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Index Statistical Profile

Capitalization Profile	
Number of Constituents	30
TOTAL MARKET CAPITALIZATION	116.99 Billion USD
LARGEST MARKET CAPITALIZATION	27.32 Billion USD
SMALLEST MARKET CAPITALIZATION	735.98 Million USD
AVERAGE MARKET CAPITALIZATION	3.90 Billion USD
MEDIAN MARKET CAPITALIZATION	2.41 Billion USD

Total Return Appreciation					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
Since Inception	76.11%	38.64%	25.89%	53.52%	41.19%
3 Year	55.17%	22.14%	5.81%	38.66%	31.99%
1 Year	42.93%	21.04%	24.01%	13.68%	18.82%

Compound Annual Growth Rate (CAGR)					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
Since Inception	17.55%	9.78%	6.80%	13.03%	10.36%
3 Year	15.77%	6.89%	1.90%	11.51%	9.69%
1 Year	42.93%	21.04%	24.01%	13.68%	18.82%

Annualized Standard Deviation (Monthly)					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
Since Inception	34.81%	24.38%	26.65%	12.61%	10.20%
3 Year	36.06%	24.35%	26.16%	13.14%	10.44%
1 Year	37.01%	22.96%	23.63%	12.85%	5.98%

Sharpe Ratio					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
Since Inception	0.6416	0.4990	0.3746	1.0202	0.9975
3 Year	0.5886	0.3876	0.1966	0.8781	0.9148
1 Year	1.1362	0.9186	1.0030	1.0182	2.8359

\*All data as of June 30, 2017

\*\*Dependent variable shown in Column Headers, Independent shown in Row Headers

Top Ten Constituents			
Company	Ticker	Country	Weight
AMICUS THERAPEUTICS INC	FOLD US	UNITED STATES	3.76%
KITE PHARMA INC.	KITE US	UNITED STATES	3.73%
BEIGENE LTD-ADR	BGNE US	CHINA	3.65%
ALEXION PHARMACEUTICALS INC	ALXN US	UNITED STATES	3.65%
LOXO ONCOLOGY INC	LOXO US	UNITED STATES	3.54%
FIBROGEN INC	FGEN US	UNITED STATES	3.53%
SUPERNUS PHARMACEUTICALS INC	SUPN US	UNITED STATES	3.50%
SPARK THERAPEUTICS INC	ONCE US	UNITED STATES	3.50%
PUMA BIOTECHNOLOGY INC.	PBYI US	UNITED STATES	3.45%
ARRAY BIOPHARMA INC	ARRY US	UNITED STATES	3.44%

Beta Matrix** (3 Year/Monthly)					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
PHIXTR	1.0000	1.0624	0.4863	0.2816	1.1359
XNBI	0.9203	1.0000	0.4446	0.2674	1.0550
DZOTR	1.1359	1.7631	1.0000	0.6191	1.6665
SNHLTHT	1.5313	1.6785	0.9801	1.0000	1.0881
SN500T	1.1359	0.7567	0.3015	0.1243	1.0000

Correlation Matrix** (3 Year/Monthly)					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
PHIXTR	1.0000				
XNBI	0.9888	1.0000			
DZOTR	0.8954	0.8854	1.0000		
SNHLTHT	0.6567	0.6700	0.7790	1.0000	
SN500T	0.8954	0.8935	0.7088	0.3678	1.0000

R-Square Matrix** (3 Year/Monthly)					
	PHIXTR	XNBI	DZOTR	SNHLTHT	SN500T
PHIXTR	1.0000				
XNBI	0.9778	1.0000			
DZOTR	0.8018	0.7840	1.0000		
SNHLTHT	0.4312	0.4488	0.6068	1.0000	
SN500T	0.8018	0.7983	0.5024	0.1353	1.0000

Index Composition

