

U.S. Health Care Services

Barclays Healthcare Payors, Providers, & Supply Chain Summit

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U.S. Health Care Service

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Healthcare Services Ratings and Valuation Summary

Healthcare Services Stock R	Satings / Price Targets								
			9/24/2018	Price	% to	Projected		Barclays	Consensus
Drug Distributors	Company Name	Rating	<u>Price</u>	<u>Target</u>	Current Price	P/E Multiple	<u>Period</u>	<u>EPS</u>	<u>EPS</u>
ABC	AMERISOURCEBERGEN	EW	\$89.57	\$95	6%	13.0x	2019	\$7.28	\$7.29
CAH	CARDINAL HEALTH	EW	\$53.91	\$58	8%	11.0x	2019	\$5.28	\$5.24
MCK	MCKESSON	EW	\$132.64	\$150	13%	11.0x	2019	\$14.01	\$14.08
PBM/Specialty Pharmacy									
DPLO	DIPLOMAT PHARMACY	OW	\$19.12	\$24	26%	22.0x	2019	\$1.07	\$1.06
ESRX	EXPRESS SCRIPTS HOLDING (EW	\$94.40	\$83	-12%	8.0x	2019	\$9.82	\$9.54
Retail Pharmacy									
WBA	WALGREENS BOOTS ALLIANC	EW	\$72.20	\$77	7%	12.0x	2019	\$6.74	\$6.63
Medical/Dental/Vet Distr	<u>ibutors</u>								
ALGN	ALIGN TECHNOLOGIES	OW	\$388.96	\$420	8%	67.0x	2019	\$6.25	\$6.25
HSIC	HENRY SCHEIN	EW	\$83.67	\$73	-13%	16.0x	2019	\$4.55	\$4.47
OMI	OWENS AND MINOR	UW	\$16.82	\$12	-29%	7.0x	2019	\$1.67	\$1.63
PDCO	PATTERSON COMPANIES	UW	\$25.10	\$20	-20%	13.0x	2019	\$1.50	\$1.53
XRAY	DENTSPLY SIRONA	EW	\$38.09	\$41	8%	18.0x	2019	\$2.25	\$2.33
Healthcare IT									
CERN	CERNER CORP	EW	\$63.78	\$70	10%	25.0x	2019	\$2.80	\$2.79
Diversified Managed Care	2								
ANTM	ANTHEM	OW	\$273.23	\$275	1%	16.0x	2019	\$17.00	\$17.11
CI	CIGNA	OW	\$203.24	\$228	12%	15.0x	2019	\$15.25	\$15.20
UNH	UNITEDHEALTH GROUP	OW	\$267.36	\$265	-1%	18.0x	2019	\$14.30	\$14.40
Government Managed Ca									
CNC	CENTENE	OW	\$142.98	\$158	11%	18.0x	2019	\$8.59	\$8.35
HUM	HUMANA	OW	\$340.61	\$370	9%	21.0x	2019	\$17.40	\$17.16
МОН	MOLINA HEALTHCARE	EW	\$151.78	\$125	-18%	21.0x	2019	\$6.00	\$6.82
WCG	WELLCARE	OW	\$307.48	\$325	6%	24.0x	2019	\$13.50	\$13.38
						Projected		Barclays	Consensus
<u>Hospitals</u>						EV Multiple		<u>EBITDA</u>	<u>EBITDA</u>
CYH	COMMUNITY HEALTH	UW	\$3.41	\$3	-12%	8.0x	2019	\$1,543	\$1,555
HCA	HCA HOLDINGS	OW	\$133.37	\$150	12%	8.5x	2019	\$9,400	\$9,293
THC	TENET HEALTHCARE	EW	\$28.10	\$35	25%	7.0x	2019	\$2,691	\$2,653
UHS	UNIVERSAL HEALTH SERVICE:	EW	\$126.74	\$135	7%	8.5x	2019	\$1,861	\$1,872

Source: Barclays Research Estimates

Stock Rating: OW = Overweight; EW= Equal Weight; UW = Underweight. Industry View is Neutral.

For full disclosures on each covered company, including details of our company-specific valuation methodology and risks, please refer to http://publicresearch.barcap.com



Pharma Supply Channel: Branded Drug Inflation Trends

Branded Drug	Price Inflation Trend	s - Top 500 l	Drugs by Sale	2S										
	# of			# of			# of			# of			# of	
2014	Branded Price	Avg. %	2015	Branded Price	Avg. %	2016	Branded Price	Avg. %	2017	Branded Price	Avg. %	2018	Branded Price	Avg. %
Month	Changes	Change	Month	Changes	Change	Month	Changes	Change	Month	Changes	Change	Month	Changes	Change
Jan	130	8.3%	Jan	114	9.0%	Jan	112	8.4%	Jan	134	7.4%	Jan	156	7.4%
Feb	12	8.9%	Feb	8	6.7%	Feb	5	7.7%	Feb	15	7.0%	Feb	10	7.9%
Mar	6	6.7%	Mar	13	7.9%	Mar	7	7.6%	Mar	5	7.6%	Mar	2	11.5%
1Q14	148	8.0%	1Q15	135	7.9%	1Q16	124	7.9%	1Q17	154	7.3%	1Q18	168	9.0%
Apr	32	8.7%	Apr	31	10.0%	Apr	25	7.6%	Apr	17	6.9%	Apr	11	6.4%
May	8	10.3%	May	19	9.5%	May	10	9.2%	May	13	7.7%	May		
Jun	33	8.0%	Jun	30	24.0%	Jun	34	7.8%	Jun	23	5.6%	Jun	1	4.0%
2Q14	73	9.0%	2Q15	80	14.5%	2Q16	69	8.2%	2Q17	53	6.7%	2Q18	12	5.2%
Jul	63	7.6%	Jul	42	8.7%	Jul	37	6.7%	Jul	25	5.2%	Jul	12	6.1%
Aug	19	8.5%	Aug	13	7.9%	Aug	8	7.8%	Aug	2	4.6%	Aug		
Sep	8	9.1%	Sep	13	7.0%	Sep	3	7.3%	Sep	3	4.5%	Sep		
3Q14	90	8.4%	3Q15	68	7.9%	3Q16	48	7.3%	3Q17	30	4.8%	3Q18	12	6.1%
Oct	21	8.3%	Oct	16	7.0%	Oct	8	4.5%	Oct	6	5.7%	Oct		
Nov	16	8.2%	Nov	7	9.6%	Nov	1	6.0%	Nov	2	7.7%	Nov		
Dec	16	8.5%	Dec	24	8.4%	Dec	17	7.9%	Dec	17	7.7%	Dec		
4Q14	53	8.3%	4Q15	47	8.3%	4Q16	26	6.1%	4Q17	25	7.0%	4Q18	0	0.0%
2014	364	8.4%	2015	330	9.6%	2016	267	7.4%	2017	262	6.5%	2018	192	6.7%

Source: Barclays Research; PriceRx



Introducing Barclays Generic Launch Pipeline Thru 2022

Five-Year Generic Pipeline Increments (\$ BLN)

	ANDA Exclusivities*	Traditional			
Year	Launch/Pipeline	ANDA (\$ bil)	Biologics	505(b)	Total
	*within total ANDAs				
2003	\$10.3	\$14.4			\$14.4
2004	\$6.5	\$10.6			\$10.6
2005	\$7.9	\$9.6			\$9.6
2006	\$13.7	\$16.2			\$16.2
2007	\$5.7	\$8.5			\$8.5
2003-2007 Total	\$44.1	\$59.3			\$59.3
2008	\$8.7	\$14.8			\$14.8
2009	\$9.0	\$17.0			\$17.0
2010	\$17.3	\$18.7			\$18.7
2011	\$9.5	\$18.2			\$18.2
2012	\$15.6	\$29.0			\$29.0
2008-2012 Total	\$60.0	\$97.7			\$97.7
2013	\$6.2	\$14.7			\$14.7
2014	\$13.4	\$17.1			\$17.1
2015	\$13.4	\$22.9	\$0.8	\$0.0	\$23.7
2016	\$23.7	\$23.9	\$5.0	\$9.6	\$38.5
2017	\$10.5	\$13.7	\$0.0	\$0.8	\$14.5
2013-2017 Total	\$67.3	\$92.3	\$5.8	\$10.4	\$108.5
2018E	\$13.9	\$19.9	\$9.7	\$0.0	\$29.6
2019E	\$15.4	\$20.8	\$3.2	\$10.1	\$34.1
2020E	\$4.6	\$6.4	\$3.4	\$7.6	\$17.4
2021E	\$2.8	\$3.1	\$5.2	\$0.0	\$8.3
2022E	\$2.9	\$13.7	\$17.6	\$0.0	\$31.3
2018-2022 Total	\$39.7	\$64.0	\$39.1	\$17.7	\$120.8

Source: Barclays Research Estimates



PBM Industry: Mail-Order and Specialty Rx Dominate Profits

PBM Profit Pools													
PBM Profit Breakdown 2000-2015													
	2000	2001	2002	2003	2004	2005	2006	2007	2008				
Retail Profit (rebill spread)	13%	12%	11%	10%	8%	7%	6%	6%	5%				
Mail Order Profit (dispensing)	32%	33%	35%	39%	43%	47%	50%	52%	53%				
Specialty Profit (dispensing)	1%	1%	2%	3%	5%	7%	9%	11%	139				
Claims Processing Fees	8%	8%	8%	7%	6%	5%	5%	4%	49				
Branded Mfr Rebates / Rebate administration	40%	38%	36%	33%	29%	27%	24%	21%	189				
Clinical Programs/Other	7%	8%	8%	8%	7%	7%	7%	7%	7 9				
Total	100%	100%	100%	100%	98%	100%	100%	100%	100%				
PBM Profit Breakdown 2000-2015 (cont.)													
	2009	2010	2011	2012	2013	2014	2015	2016	201				
Retail Profit (rebill spread)	4%	4%	4%	3%	3%	2%	1%	1%	19				
Mail Order Profit (dispensing)	55%	57%	59%	62%	63%	63%	63%	63%	63%				
Specialty Profit (dispensing)	14%	15%	16%	17%	19%	22%	23%	24%	25%				
Claims Processing Fees	3%	3%	2%	2%	2%	1%	1%	1%	19				
Branded Mfr Rebates / Rebate administration	16%	14%	12%	10%	9%	9%	9%	9%	8%				
Clinical Programs/Other	8%	8%	8%	7%	5%	4%	3%	2%	29				
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%				

Source: Barclays Research Estimates



Medicare Part D Annual Market Share

PDP Membership	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 YTD
CVS	1,584,702	1,205,714	3,424,160	4,009,412	4,264,741	4,123,364	4,536,856	5,475,393	5,557,881	6,114,851
UnitedHealth Group	4,304,516	4,543,634	4,865,167	4,231,467	5,204,377	5,184,288	5,369,006	5,168,022	5,364,993	5,361,603
Humana	1,937,721	1,678,970	2,537,054	2,997,961	3,196,740	3,853,667	4,433,906	4,835,429	5,187,133	4,898,737
Express Scripts	108,068	147,541	394,644	1,689,702	2,786,669	2,671,946	2,683,547	2,722,031	2,778,355	2,506,139
Aetna	345,055	611,605	428,849	480,590	2,174,433	1,581,625	1,472,037	2,075,400	2,086,644	2,212,087
WellCare Health Plans	747,352	767,781	981,880	874,255	799,415	1,447,377	1,040,122	1,014,838	1,161,446	1,066,225
Cigna	305,817	562,096	540,826	1,268,246	1,194,527	1,192,977	1,485,062	979,150	825,570	772,258
Rite Aid	0	0	0	0	0	114,070	619,584	386,931	402,385	561,165
Anthem	1,228,343	869,358	724,112	637,683	545,096	569,915	484,256	468,975	450,737	455,525
Magellan, Inc	0	0	0	0	0	0	0	63,476	122,580	100,564
Other (Prime, etc)	7,047,311	7,540,396	4,983,772	3,877,593	2,670,650	2,800,697	2,144,873	1,815,300	1,485,741	1,474,355
Total Market	17,608,885	17,927,095	18,880,464	20,066,909	22,836,648	23,539,926	24,269,249	25,004,945	25,423,465	25,523,509

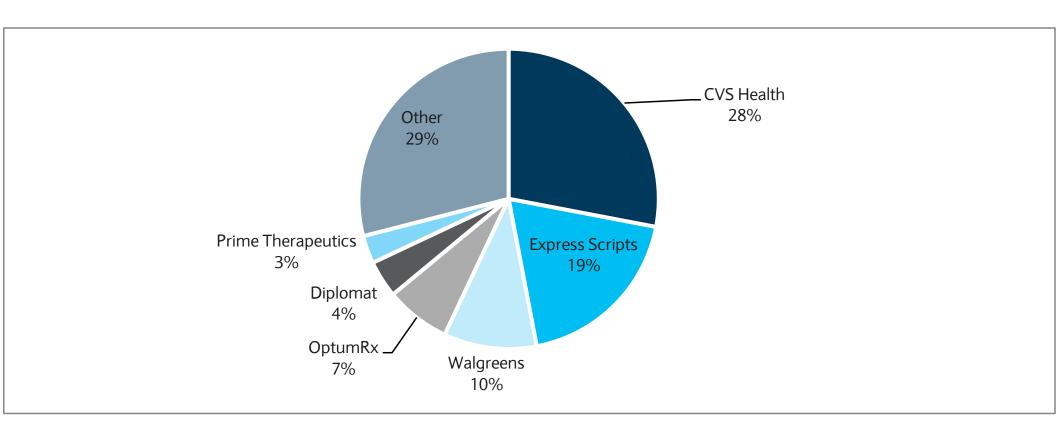
Yr/Yr% Change	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 YTD
CVS		-23.9%	184.0%	17.1%	6.4%	-3.3%	10.0%	20.7%	1.5%	10.6%
UnitedHealth Group		5.6%	7.1%	-13.0%	23.0%	-0.4%	3.6%	-3.7%	3.8%	0.0%
Humana		-13.4%	51.1%	18.2%	6.6%	20.5%	15.1%	9.1%	7.3%	-4.7%
Express Scripts		36.5%	167.5%	328.2%	64.9%	-4.1%	0.4%	1.4%	2.1%	-9.5%
Aetna		77.2%	-29.9%	12.1%	352.5%	-27.3%	-6.9%	41.0%	0.5%	6.4%
WellCare Health Plans		2.7%	27.9%	-11.0%	-8.6%	81.1%	-28.1%	-2.4%	14.4%	-6.4%
Cigna		83.8%	-3.8%	134.5%	-5.8%	-0.1%	24.5%	-34.1%	-15.7%	-5.3%
Rite Aid							443.2%	-37.5%	4.0%	52.1%
Anthem		-29.2%	-16.7%	-11.9%	-14.5%	4.6%	-15.0%	-3.2%	-3.9%	1.0%
Magellan, Inc									93.1%	-15.5%
Other (Prime, etc)		7.0%	-33.9%	-22.2%	-31.1%	4.9%	-23.4%	-15.4%	-18.2%	-0.2%
Total Market		1.8%	5.3%	6.3%	13.8%	3.1%	3.1%	3.0%	1.7%	1.1%

Market Share	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 YTD
CVS	9.0%	6.7%	18.1%	20.0%	18.7%	17.5%	18.7%	21.9%	21.9%	24.0%
UnitedHealth Group	24.4%	25.3%	25.8%	21.1%	22.8%	22.0%	22.1%	20.7%	21.1%	21.0%
Humana	11.0%	9.4%	13.4%	14.9%	14.0%	16.4%	18.3%	19.3%	20.4%	19.2%
Express Scripts	0.6%	0.8%	2.1%	8.4%	12.2%	11.4%	11.1%	10.9%	10.9%	9.8%
Aetna	2.0%	3.4%	2.3%	2.4%	9.5%	6.7%	6.1%	8.3%	8.2%	8.7%
WellCare Health Plans	4.2%	4.3%	5.2%	4.4%	3.5%	6.1%	4.3%	4.1%	4.6%	4.2%
Cigna	1.7%	3.1%	2.9%	6.3%	5.2%	5.1%	6.1%	3.9%	3.2%	3.0%
Rite Aid	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	2.6%	1.5%	1.6%	2.2%
Anthem	7.0%	4.8%	3.8%	3.2%	2.4%	2.4%	2.0%	1.9%	1.8%	1.8%
Magellan, Inc	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.4%
Other (Prime, etc)	40.0%	42.1%	26.4%	19.3%	11.7%	11.9%	8.8%	7.3%	5.8%	5.8%
Total Market	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Source: CMS



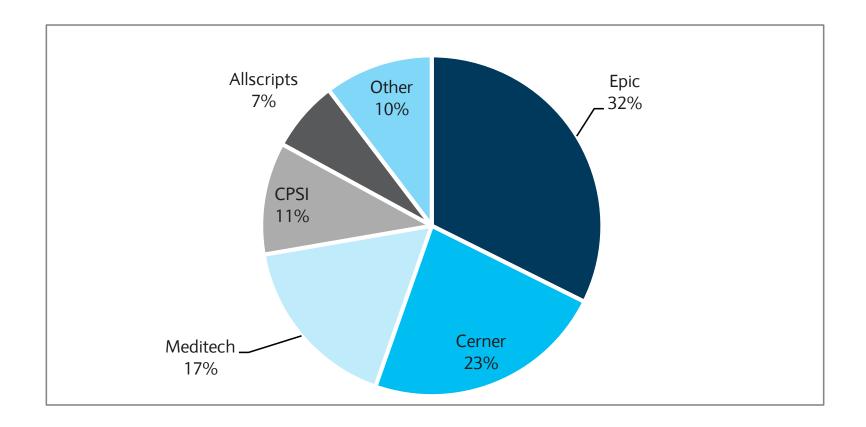
Specialty Pharmacy Market Share (2016)



Source: Barclays Research; Company Documents



Healthcare IT Electronic Health Record Market Share



Source: HIMSS Analytics; Barclays Research



Managed Care Product Mix & Population Trends

				MA Sur	nmary Pi	eliminary	vs. Final	Rates				
	2009	2010	2011*	2012	2013	2014	2015	2016	2017	2018	2019	7 Yr Avg.
Preliminary	4.80%	0.50%	1.28%	0.70%	2.30%	(2.34)%	(1.90)%	1.70%	3.00%	2.80%	4.35%	0.89%
Final	4.24%	0.81%	0.00%	(0.16)%	2.80%	2.96%	(3.40)%	4.20%	3.12%	2.70%	NA	1.75%
Change	(0.56)%	0.31%	(1.28)%	(0.86)%	0.50%	5.30%	(1.50)%	2.50%	0.12%	(0.10)%	NA	0.85%

^{* - 2011} change due to legislation passed subsequent to 45 day notice

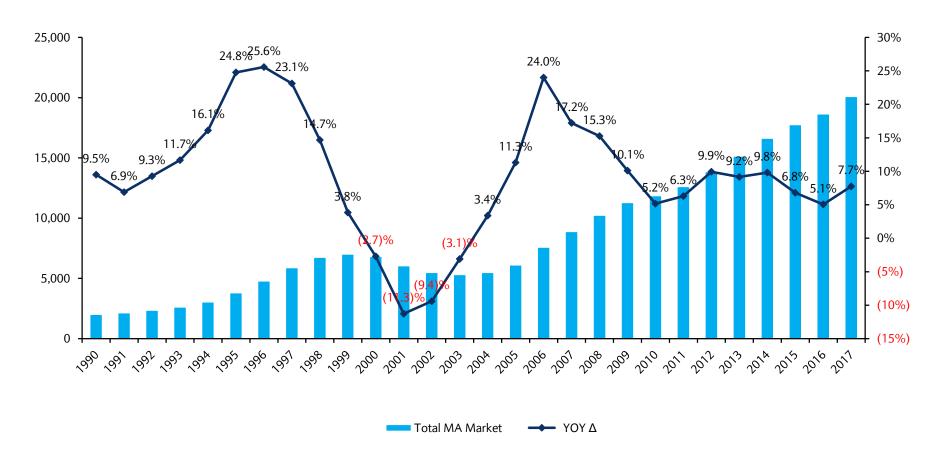
			Ме	dicare Po	pulation T	rends (MM	1)			
Enrollment	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18E	Dec-19E	5 Yr - Dec-22E	10 Yr - Dec-27E
Medicare Eligible (CMS)	50.8	52.5	54.1	55.6	57.3	60.2	62	64	70	83
Medicare Advantage	13.9	15.1	16.6	17.8	18.7	20.1	21	23	27	38
PENETRATION RATE	27.3%	28.8%	30.7%	31.9%	32.6%	30.4%	34.4%	35.4%	38.5%	45.8%
YOY Growth	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18E	Dec-19E	5 Yr - Dec-22E	10 Yr - Dec-27E
Medicare Eligible (CMS)	3.7%	3.3%	3.0%	2.8%	3.0%	5.2%	3.0%	3.0%	3.0%	3.0%
Medicare Advantage	9.9%	9.2%	9.8%	6.8%	5.1%	7.7%	6.0%	6.0%	6.0%	6.0%

Source: Barclays Research Estimates; Company documents



Medicare Advantage Membership

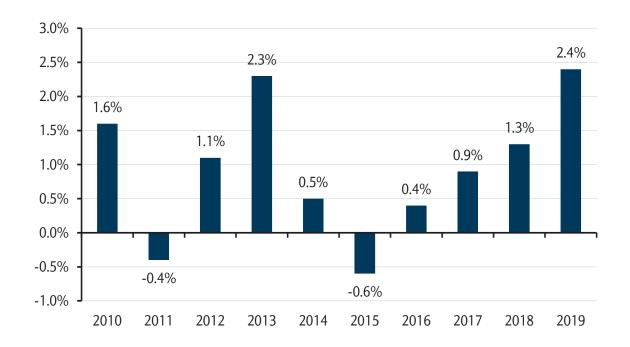
Medicare Advantage Membership 1990-2017 ('000)



Source: CMS



Medicare Inpatient Hospital Annual Rate Updates



Source: CMS



Same Store Adjusted Admissions

Same Store Adj	usted Adı	nissions																
	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18
CYH	-5.3%	-1.2%	0.0%	2.7%	2.5%	-0.2%	0.1%	-1.2%	1.3%	-0.6%	-1.5%	-1.4%	-1.4%	-2.5%	-2.3%	-0.9%	-1.9%	-0.2%
HCA	-0.3%	2.2%	4.1%	5.6%	6.8%	4.9%	3.6%	2.9%	3.1%	1.6%	1.3%	1.5%	1.6%	1.3%	0.3%	2.3%	1.8%	2.8%
LPNT	-1.9%	2.0%	4.5%	5.0%	4.3%	1.8%	0.1%	-1.1%	0.0%	-1.9%	-1.8%	-0.7%	0.5%	-0.8%	-1.4%	-0.1%	-2.2%	0.5%
QHC									0.8%	-2.5%	-3.0%	-3.5%	-0.8%	-0.2%	0.2%	0.6%	1.1%	-1.8%
THC	0.3%	4.0%	4.9%	4.5%	5.9%	2.3%	0.7%	0.3%	2.2%	0.5%	1.4%	-0.5%	-2.5%	-1.4%	-2.2%	1.3%	0.6%	-0.2%
UHS (acute)	-0.5%	3.6%	4.1%	5.5%	5.7%	5.7%	5.1%	4.8%	7.8%	3.9%	4.6%	4.7%	5.1%	6.0%	3.5%	7.3%	2.3%	1.9%
UHS (psych)	2.3%	4.4%	5.4%	6.8%	6.0%	4.2%	1.6%	0.2%	1.4%	-0.3%	1.3%	2.1%	2.4%	3.7%	1.1%	2.5%	1.6%	1.2%
Acute Average	-0.9%	2.5%	3.8%	5.0%	5.2%	3.1%	1.9%	1.0%	2.4%	0.1%	0.3%	0.3%	0.7%	0.9%	-0.1%	1.9%	0.5%	0.6%

Same Store Adj	usted Adı	nissions	- Y/Y G	rowth														
	Mar-14	Jun-14	Sep-14	Dec-14	Mar-15	Jun-15	Sep-15	Dec-15	Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18	Jun-18
CYH	-1bps	14bps	40bps	94bps	79bps	10bps	1bps	-39bps	-12bps	-4bps	-16bps	-2bps	-27bps	-19bps	-8bps	5bps	-5bps	22bps
HCA	3bps	11bps	30bps	66bps	72bps	27bps	-5bps	-27bps	-37bps	-33bps	-24bps	-15bps	-15bps	-2bps	-9bps	8bps	2bps	15bps
LPNT	30bps	27bps	59bps	89bps	61bps	-2bps	-44bps	-61bps	-43bps	-37bps	-19bps	4bps	6bps	11bps	4bps	6bps	-27bps	13bps
QHC													-16bps	23bps	32bps	41bps	19bps	-16bps
THC	28bps	47bps	54bps	50bps	56bps	-17bps	-42bps	-42bps	-37bps	-18bps	7bps	-8bps	-47bps	-19bps	-36bps	18bps	31bps	12bps
UHS (acute)	10bps	16bps	5bps	55bps	62bps	21bps	10bps	-7bps	21bps	-18bps	-5bps	-1bps	-27bps	21bps	-11bps	26bps	-28bps	-41bps
UHS (psych)	17bps	-10bps	-4bps	44bps	37bps	-2bps	-38bps	-66bps	-46bps	-45bps	-3bps	19bps	10bps	40bps	-2bps	4bps	-8bps	-25bps
Acute Average	14bps	17bps	31bps	66bps	61bps	6bps	-20bps	-40bps	-26bps	-26bps	-10bps	0bps	-17bps	8bps	-4bps	15bps	-2bps	-3bps

Source: Company Documents



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Mentioned Stocks (Ticker, Date, Price)

Align Technology (ALGN, 21-Sep-2018, USD 380.84), Overweight/Neutral, CE/J

AmerisourceBergen Corp. (ABC, 21-Sep-2018, USD 90.13), Equal Weight/Neutral, CD/CE/J

Anthem (ANTM, 21-Sep-2018, USD 272.52), Overweight/Neutral, A/CD/CE/D/J/K/L/M/N

Cardinal Health (CAH, 21-Sep-2018, USD 54.94), Equal Weight/Neutral, CD/CE/D/E/J/K/L/M/N

Centene (CNC, 21-Sep-2018, USD 142.71), Overweight/Neutral, A/CD/CE/D/J/K/L/M

Cerner (CERN, 21-Sep-2018, USD 63.82), Equal Weight/Neutral, CD/CE/J

Cigna (Cl, 21-Sep-2018, USD 202.23), Overweight/Neutral, CD/CE/J/K/M/N

Community Health Systems Inc. (CYH, 21-Sep-2018, USD 3.41), Underweight/Neutral, CE/J/K/M

Dentsply Sirona (XRAY, 21-Sep-2018, USD 38.76), Equal Weight/Neutral, CD/CE/J

Diplomat Pharmacy Inc. (DPLO, 21-Sep-2018, USD 20.44), Overweight/Neutral, CE/J/K/M

Express Scripts (ESRX, 21-Sep-2018, USD 94.58), Equal Weight/Neutral, CD/CE/J/K/M/N

HCA Healthcare, Inc. (HCA, 21-Sep-2018, USD 133.37), Overweight/Neutral, A/CD/CE/D/J/K/L/M/N

Henry Schein (HSIC, 21-Sep-2018, USD 85.67), Equal Weight/Neutral, CE/J

Humana (HUM, 21-Sep-2018, USD 337.76), Overweight/Neutral, A/CD/CE/D/J/K/L/M

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Universal Health Services Inc. (UHS, 21-Sep-2018, USD 126.74), Equal Weight/Neutral, CD/CE/J

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