

## **Edwards Lifesciences**

# Notes from our Evoque check with doctor in Evoque trial

Maintain Rating: BUY | PO: 105.00 USD | Price: 88.33 USD

## This doc says EVOQUE majority of TR share

Following Edwards Lifesciences (EW)'s Evoque FDA approval in February we recently spoke with an interventional cardiologist who was part of the Evoque trial. He finds Evoque works very well in the right patient and has seen good patient outcomes. He expects Evoque could have a majority share of the market (80% Evoque / 20% TriClip). Rollout will be limited initially to focus on good clinical outcomes but thinks TR volume could be similar to MitraClip volume in the next few years. Price and center capacity are the potential barriers to adoption. See below for key takeaways and inside for more.

## 85-90% of TR can be treated with replacement or clipping

The doctor estimates of all the TR patients he sees that only about 10-15% are not suitable for either TriClip or Evoque (i.e. 85-90% of TR can be treated with a device). The doctor expects Evoque to have 80% share because by the time patients are referred for TR the heart is too enlarged to be clipped. The enlarged heart is not an issue with Evoque since it replaces the old valve. There are 20% of patients who would not be suitable for Evoque (and go to TriClip) given patient anatomy (valve too big) or if the patient can't tolerate anticoagulants (needed for at least 6 mos with Evoque).

## This doc Evoque volume close to Mitraclip in 2-3 years

Roll out of Evoque will initially be limited to centers of excellence/centers part of the trial to focus on good clinical outcomes. But this doctor has 25 patients waiting to get Evoque and expects to do 30-40 cases total this year. Overall he does 400 TAVRs in a year and 110 clips and expects his tricuspid volume to be similar to MitraClip or more in 2-3 yrs. There are 500 centers using MitraClip today and Evoque likely to be used in the same centers over the next 5 years (vs 800 TAVR centers today).

## **Evoque ASP ~\$40k, a premium to TAVR and MitraClip**

This doctor said Evoque price is ~\$40k vs Sapien TAVR valve is ~\$32.5k. TriClip ASP is similar to MitraClip in the \$25-\$30k range. Adoption will depend on payment for the valve once hospitals get coding and hospital capacity. Evoque could get a new technology add on payment which would become effective October 1st if granted.

We maintain Buy and \$105 PO as we believe EW will likely sustain double-digit revenue/EPS growth going forward.

Estimates (Dec) (US\$)	2022A	2023A	2024E	2025E	2026E
EPS	2.48	2.51	2.75	3.03	3.34
EPS Change (YoY)	11.7%	1.2%	9.6%	10.2%	10.2%
Consensus EPS (Bloomberg)			2.76	3.10	3.44
DPS	0	0	0	0	0
Valuation (Dec)					
P/E	35.6x	35.2x	32.1x	29.2x	26.4x
EV / EBITDA*	26.8x	27.6x	25.1x	22.6x	20.4x
Free Cash Flow Yield*	1.8%	1.2%	3.0%	3.1%	3.4%
* For full definitions of <i>IQ</i> method <sup>SM</sup> measures, see page 13.					

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 14 to 16. Analyst Certification on page 12. Price Objective Basis/Risk on page 12.

Timestamp: 07 March 2024 06:00AM EST

#### 07 March 2024

#### Equity

#### **Travis Steed**

Research Analyst BofAS +1 404 607 3251 travis.steed@bofa.com

#### **Stephanie Piazzola** Research Analyst

BofAS stephanie.piazzola@bofa.com

#### Craig Bijou

Research Analyst BofAS craig.bijou@bofa.com

#### Carolyn Huszagh

Research Analyst BofAS carolyn.huszagh@bofa.com

## **Stock Data**

Price

Price Objective 105.00 USD Date Established 7-Mar-2024 R-1-9 Investment Opinion 60.57 USD - 94.87 USD 52-Week Range 53 113 USD / 601 3 Mrkt Val (mn) / Shares Out Free Float 99 1% Average Daily Value (mn) 401.58 USD BofA Ticker / Exchange EW / NYS Bloomberg / Reuters EW US / EW.N ROE (2024E) 21.7% Net Dbt to Eqty (Dec-2023A) -8.1% ESGMeter™ High

88.33 USD

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology".

TR = tricuspid regurgitation

TAVR = transcatheter aortic valve replacement

ASP = average selling price

## iQprofile<sup>™</sup> Edwards Lifesciences

Lifest	rence	:5		
2022A	2023A	2024E	2025E	2026E
20.9%	19.6%	18.1%	16.4%	15.1%
26.6%	24.4%	21.7%	19.1%	17.1%
33.4%	28.9%	29.5%	29.9%	30.3%
974	643	1,580	1,647	1,784
2022A	2023A	2024E	2025E	2026E
0.8x	0.6x	1.1x	1.1x	1.1x
1.8x	1.7x	2.0x	2.6x	2.8x
14.6%	15.0%	16.5%	17.0%	17.5%
-3.0%	-8.1%	-26.1%	-37.6%	-45.7%
NA	NA	NA	NA	NA
2022A	2023A	2024E	2025E	2026E
5,382	6,005	6,487	7,143	7,856
2.9%	11.6%	8.0%	10.1%	10.0%
4,309	4,630	4,993	5,513	6,078
8.0%	7.4%	7.8%	10.4%	10.3%
	2022A 20.9% 26.6% 33.4% 974 2022A 0.8x 1.8x 14.6% -3.0% NA 2022A 5,382 2.9% 4,309	2022A 2023A 20.9% 19.6% 26.6% 24.4% 33.4% 28.9% 974 643  2022A 2023A 0.8x 0.6x 1.8x 1.7x 14.6% 15.0% -3.0% -8.1% NA NA  2022A 2023A 5,382 6,005 2.9% 11.6% 4,309 4,630	20.9% 19.6% 18.1% 26.6% 24.4% 21.7% 33.4% 28.9% 29.5% 974 643 1,580  2022A 2023A 2024E  0.8x 0.6x 1.1x 1.8x 1.7x 2.0x 14.6% 15.0% 16.5% -3.0% -8.1% -26.1% NA NA NA  2022A 2023A 2024E  5,382 6,005 6,487 2.9% 11.6% 8.0% 4,309 4,630 4,993	2022A         2023A         2024E         2025E           20.9%         19.6%         18.1%         16.4%           26.6%         24.4%         21.7%         19.1%           33.4%         28.9%         29.5%         29.9%           974         643         1,580         1,647           2022A         2023A         2024E         2025E           0.8x         0.6x         1.1x         1.1x           1.8x         1.7x         2.0x         2.6x           14.6%         15.0%         16.5%         17.0%           -3.0%         -8.1%         -26.1%         -37.6%           NA         NA         NA         NA           2022A         2023A         2024E         2025E           5,382         6,005         6,487         7,143           2.9%         11.6%         8.0%         10.1%           4,309         4,630         4,993         5,513

## Free Cash Flow Data (Dec)

Net Interest & Other Income

Net Income (Adjusted)

EBITDA

% Change

% Change

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Net Income from Cont Operations (GAAP)	1,551	1,528	1,670	1,848	2,039
Depreciation & Amortization	140	145	152	152	152
Change in Working Capital	(421)	(526)	(57)	(83)	(97)
Deferred Taxation Charge	NA	NA	NA	NA	NA
Other Adjustments, Net	(51)	(251)	123	123	123
Capital Expenditure	(245)	(253)	(308)	(393)	(432)
Free Cash Flow	974	643	1,580	1,647	1,784
% Change	-30.8%	-34.0%	145.8%	4.2%	8.4%
Share / Issue Repurchase	(1,727)	(880)	0	0	0
Cost of Dividends Paid	0	0	0	0	0
Change in Debt	0	0	0	0	0

1,930

12.1%

1,551

10.4%

19

2,060

10.0%

1,670

9.1%

86

1,874

-2.9%

1,531

-1.3%

64

2,290

11.2%

1,849

10.7%

88

2,535

10.7%

2,039

10.3%

88

## **Balance Sheet Data (Dec)**

(US\$ Millions)	2022A	2023A	2024E	2025E	2026E
Cash & Equivalents	769	1,144	2,856	4,636	6,553
Trade Receivables	699	837	954	1,043	1,146
Other Current Assets	1,628	2,055	2,210	2,328	2,457
Property, Plant & Equipment	1,633	1,749	1,906	2,146	2,426
Other Non-Current Assets	3,564	3,578	3,578	3,578	3,578
Total Assets	8,293	9,363	11,505	13,732	16,161
Short-Term Debt	0	0	0	0	0
Other Current Liabilities	1,022	1,195	1,412	1,535	1,671
Long-Term Debt	596	597	597	597	597
Other Non-Current Liabilities	867	851	851	851	851
Total Liabilities	2,486	2,644	2,860	2,984	3,119
Total Equity	5,807	6,719	8,645	10,748	13,042
Total Equity & Liabilities	8,293	9,363	11,505	13,732	16,161

<sup>\*</sup> For full definitions of  $\emph{IQ}$  method  $^{\text{SM}}$  measures, see page 13.

## **Company Sector**

Medical Technology

## **Company Description**

Edwards Lifesciences provides devices and technologies for structural heart disease, and critical care and surgical monitoring. EW is a leader in transcatheter heart valve replacement - one of the most visible, innovative and exciting markets in the medical device sector.

## **Investment Rationale**

We are Buy rated on EW as we see TAVR growth stabilizing/recovering while Evoque/other new products adding years of growth opportunity to keep EW driving double digit EPS growth for many years.

## Stock Data

Average Daily Volume

4,584,421

## **Quarterly Earnings Estimates**

	2023	2024
Q1	0.62A	0.64E
Q2	0.66A	0.69E
Q3	0.59A	0.69E
Q4	0.64A	0.73E



## **Doc Call Transcript**

## **Key Quotes on tricuspid**

"I would say most of them will have to have a replacement, meaning a brand new valve like the Evoque. Less than 20% likely will benefit from a TriClip because they usually refer these patients very late advanced stages and TriClip only works in early stages."

"I think it's probably going to be similar to mitral... I think what they're planning to do right now is just have centers that were part of the trial to show good outcomes now that it's approved commercially outside the trial."

"There are some patients that they have very advanced disease where the heart is super weak and the anatomy is already too big for them and I can't fit an Evoque. That's the first reason not to do Evoque is where you can't fit the Evoque and we have several of those patients that are getting referred late. There are other patients where if you can't tolerate anticoagulation after the valve you might not be a good candidate for the Evoque, because you have to be on a blood thinner at least for six months so the valve doesn't clot."

"Maybe 10% to 15% of all tricuspid patients would be untreatable. There are more technologies that are coming that might overcome that. I think the future might have to have hybrid procedures."

"It's the first year so we're going to try to do good cases, not just a last resource. The problem here very honestly is it just got approved so it's all about how the payment of the valve when the hospital gets coding. Maybe we'll be doing 30-40 as a start. At least in our center there is a lot of coordination with the transcatheter center in Michigan so we need to get more space to do more. There's a whole conversation within our group now and the hospital how are we going to expand timing or an extra day of OR to do this that we didn't have"

"We do 400 TAVRs a year and we do 110 clips. I would say the ratio is four to one in centers that know who to treat. It might be that it's going to be similar for Evoque or even more, sometimes we see more TR."

"TR is probably the number two to number three reason for patients coming into office. We get more aortic valves, but also TAVR has been around for a while. It's one of the most prevalent and I only see valve patients, congenital patients as well. I think we see the same amount of patients with tricuspid and mitral valve."

"I think the price is more expensive than TAVR valve, it's going to be about \$40,000. In medicine the way you get the revenues is how seek out the patients and how many comorbidities they have. A lot of these patients they have advanced chronic problems where you get better reimbursement"

"I would say the Evoque is a good valve. It works very well in the right patient. It's not going to explode in all the centers doing TAVR. It's likely going to be used in centers doing MitraClip. And like any first device, you're going to try to simplify it, to make it more user friendly and not just high level centers"

## **KOL** perspectives on tricuspid

## Tricupid market share expectations for Evoque vs TriClip

80% of patients expected to benefit from Evoque vs 20% TriClip given referral for TriClip is usually too late when the valve becomes too big to be clipped. Evoque may be too big for certain patient anatomies where TriClip would be better. TriClip may work in the near term but it's not solving the problem for later on. Likely adopters of TriClip will be those using MitraClip.

"The way I see it is when we have patients with severe tricuspid regurgitation I would say most of them will have to have a replacement, meaning a brand new valve like the



Evoque. Less than 20% likely will benefit from a TriClip because they usually refer these patients in very late advanced stages and TriClip only works in early stages. So I foresee more of a market for Evoque than TriClip. But there are going to be roles for both Evoque and TriClip in my opinion.

With the tricuspid valve in general, you have leaky valve regurgitation because where the valve is implanted in your heart, it's starting to get enlarged. Sometimes it's so big that if you do a TriClip, you might put those clips where it's leaking but the natural history of the of the heart is to keep growing. So you're going to have new leaks around the clips. So you might be solving the problem today but not tomorrow. Most patients when they get referred are on advanced stages of tricuspid regurgitation, where a clip is not ideal, and they're mainly at the stage where you have to do a replacement, for example, with an Evoque.

The community doesn't refer these patients very early because patients that get symptoms from tricuspid regurgitation could take years. If you get symptoms from other valves, it might just happen in less time and they manifest much more. However the tricuspid regurgitation problem it can take years sometimes to show symptoms. What could happen is you don't have symptoms, but your heart is starting to enlarge but by the by the time you have symptoms, it's a big heart where the valve is and TriClip is not the best option, it's usually Evoque in this case. So my feeling from a patient with tricuspid regurgitation, 80% will have to have Evoque and 20% TriClip.

We're a big center here and we've been doing this. We've been exposed to Evoque for five years almost now from the early feasibility. There are actually patients that are already too big and they're in that stage where it's too advanced and nothing works. I think there's going to be a lot of education about early referral so you can get more options for patients like more TriClips. But the reality is a lot of these patients, they come when the clip is not a good option and it's better to use Evoque. That's why I'm saying 80% and 20%."

"The issue of the enlarged heart doesn't happen with Evoque, because once we put the Evoque the valve anchors and the valve itself kind of embraces the old valve. So you replace the whole valve and with TriClip you kind of patch the valve. Imagine when you're changing your tires, sometimes you can patch it and if it's the wrong one it's going to work for the next couple of miles. But then you'll have to replace it.

I think what we're going to see if the TriClip gets approved is people who are more friendly users of MitraClip, they might be using the TriClip in patients because they can, not because they should. And we'll see a lot of patients being treated with TriClip that they're going to come with failed tricuspid that either is going to be surgery or we at advanced centers will have to figure out how we put in an Evoque on top of the TriClip. You'll have to remove the clips with catheters and put in Evoque. But again in general, once something is approved, people are going to start using it. In medicine, and one of the reasons I'm in academia and not in private sometimes is people they just worry about what they can bring home and not what they are doing. And a lot of people will just do the best they can and they would never send it to the guy next door."

## Tricuspid regurgitation patients not well suited for Evoque or transcatheter options in general

Evoque too big for some patient anatomies and not well suited for patients who can't tolerate anticoagulation.

"There are some patients that they have very advanced disease where the heart is super weak and the anatomy is already too big for them and I can't fit an Evoque. That's the first reason not to do Evoque is where you can't fit the Evoque and we have several of those patients that are getting referred late. There are other patients where if you can't tolerate anticoagulation after the valve you might not be a good candidate for the Evoque, because you have to be on a blood thinner at least for six months so the valve



doesn't clot. There are several points that sometimes would favor more TriClip than an Evoque. And that's when you have to use your clinical judgment. Maybe 10% to 15% of all tricuspid patients would be untreatable. There are more technologies that are coming that might overcome that. I think the future might have to have hybrid procedures."

### Expectations for Evoque adoption vs what seen in mitral with MitraClip

Adoption for Evoque likely to be similar to MitraClip and initially will be limited to centers part of the trial to show good outcomes.

"I think it's probably going to be similar to mitral because I'm not sure the company itself is going to be ready to be massified right now. The valve just got approved so only Centers of Excellence are doing the valve. So I think what they're planning to do right now is just have centers that were part of the trial to show good outcomes now that it's approved commercially outside the trial. And then in medicine there's a lot of stuff like if somebody is in private practice how much time are they going to invest in replacing one valve that that is going to give you X amount of money when you can do several smaller procedures that give you more revenue. So I think it's going to be similar to MitraClip. Like any new device initially they tried to release them to advanced centers and once this is already ongoing they do a more release to other centers. Because MitraClip was the only option at the time besides surgery. So we don't have anything close besides the TriClip for tricuspid. But I do believe most patients will require Evoque more than a TriClip in general.

The company wants to go slow because they want good results. Now that it's approved, the FDA will be looking at the post-approval outcomes. If you go very massive and there are people that have never implanted one, it might be challenging. But they're probably going to go to big centers first where they have operators with more background and then go to smaller centers.

I think it's going to be similar to mitral, it's the only kind of proof. If we get more competitors on the market, we'll see how they work. But I can tell you the Evoque side is five, four years ago were much more complex because it was a brand new valve for everyone. But we've been doing them for a while as part of the trial and now we can do three cases in a day."

# Existing TAVR and MitraClip volume and expectations for tricuspid volume Ratio of four to one for TAVR to MitraClip and expected to be similar ratio for tricuspid cases.

"We do 400 TAVRs a year and we do 110 clips. I would say the ratio is four to one in centers that know who to treat. It might be that it's going to be similar for Evoque or even more, sometimes we see more TR. It could be in a center that does 400 TAVRs maybe they're going to be doing 100 tricuspid cases."

## **Expectations for Evoque use in the next few years**

Expect to do 30-40 Evoque cases initially in a year. The main factor will be pricing and how to do more cases (more space and time for these cases).

"My center just got approved to get it commercially. We just did our first commercial today actually, but we did others as part of the continuous access trial. We have a list of 25 patients right now that we want to start getting it to. I think now that these are approved, we might get more referrals from other centers that don't have it in Michigan.

I don't think 100 cases in the first year. It's the first year we're going to try to do good cases, not just a last resource. The problem here very honestly is it just got approved so it's all about how the payment of the valve when the hospital gets coding. Maybe we'll be doing 30-40 as a start. At least in our center there is a lot of coordination with the transcatheter center in Michigan so we need to get more space to do more. There's a whole conversation within our group now and the hospital how are we going to expand timing or an extra day of OR to do this that we didn't have.



Let's say TriClip gets approved, some of them will be TriClip as well. There are some patients that Evoque is too big for their anatomy and maybe we're going to try to clip them."

### Expectation for number of centers doing Evoque in 5 years

Evoque expected to be used in same centers using MitraClip today, which is about 500 centers. Pascal likely to take share from MitraClip because of ease of

"Probably similar to the ones that are doing clip. There are maybe 500 centers. Pascal from EW is going to take a lot of market from MitraClip. It's much easier to do and it does the same. I think there's like 500 clip centers. Because the rules to get a TAVR center are more permissive. To get a MitraClip center, you need to have some minimal that not everyone has."

## TR treatment options today

Transcatheter expected to become first treatment option for TR patients given lower mortality and length of stay.

"So usually patients will only be operated with open heart surgery and usually in the context of another valve. The mortality when you operate and do open heart surgery, the tricuspid valve alone is relatively high., it's like 6%–8% every year. I think what we're seeing with these transcatheters is a much lower mortality and much lower length of a stay. So I see that there is going to be a market, so far Evoque the only valve approved and with TriClip we're going to have two options. But again, there are patients that they don't qualify for the Evoque because the anatomy is not ideal or vice versa for TriClip. But I think it's going to be like first option for a lot of these patients. If you have only tricuspid regurgitation just go to transcatheter don't go surgery. That's what I think what's going to happen."

## TR patient identification and prevalence

Education on early referral will be needed but Edwards already working with centers on lectures and referral outreach. TR one of the top 3 reasons patient seek treatment at this center. Similar number of patients for mitral and tricuspid.

"That's going to be a whole new market for the companies. You'll have to do education about early referral for TR and being assessed by someone that does the valves, not just a cardiologist. They're doing that for TAVR, there's a lot of education and early referral, don't wait for the patient to be super symptomatic. I think there's going to be a good market for that. The companies are good at advertising when they get something approved. We're already talking with the companies to do some lectures and outreach, so we can get patients from not just the metro area also from other places that might not get access for those options right now.

TR is probably the number two to number three reason for patients coming into office. We get more aortic valves, but also TAVR has been around for a while. It's one of the most prevalent and I only see valve patients, congenital patients as well. I think we see the same amount of patients with tricuspid and mitral valve."

"Primary vs secondary tricuspid regurgitation not really a consideration. It depends if there's pulmonary hypertension, sometimes you don't want to treat that tricuspid regurgitation because you might shut down the right side of the heart. That's why for all these patients we do a whole analysis and hard meetings with several doctors. It's not like a solo, one doctor decision. We all talk about this. They're seen by other specialties. There's a lot of brainstorming around every patient to make sure that we're treating the right guy at the right time."



### **Economics of Evoque**

Evoque to be about \$40k, more expensive than TAVR. Better reimbursement expected as use expands.

"I think the price is more expensive than TAVR valve, it's going to be about \$40,000. In medicine the way you get the revenues is how seek out the patients and how many comorbidities they have. A lot of these patients they have advanced chronic problems where you get better reimbursement. That's something that we're talking about right now. The margin might not be ideal. In private practice, might not be a big deal to do it because you might not get much margin. The valves are really going to be more expensive than the TAVR valves and I'm not sure how much you're going to get reimbursed.

They might get an add on payment like a new technology, but it isn't happening right now. I think there is going to be some changes in terms of payment and coding to get better reimbursement as this expands."

## Overview of Evoque procedure

Procedure time with Evoque is 2-3hrs while TAVR and mitral is about 30mins, though more doctor experience with TAVR and mitral and procedure times vary based on patient anatomy. Private practice less incentivized to do more complex cases.

"It's done from the groin with the patient under general anesthesia. Most patients can go home the next day. They get extubated the same day. The only thing that might happen, you might need a pacemaker from the from the valve, and that could buy you an extra day. The procedure is, is two to three hours. It's very variable, some cases could be two to three hours, others could be an hour and a half, half of the time. There's a lot of variation based on heart anatomy. That's why you have different sizes of Evoque.

I just did a TAVR in 30 minutes, but the TAVR we do them awake, in and out without general anesthesia. The MitraClip, I'm an advanced implanter, so it might take me 30 minutes but there are cases that can take you two to three hours so it's very variable. A lot of minor institutions send patients to us. I'm salary based so I don't care if I take five hours or one hour, I don't get paid more or less. In places where you're dependent on what you produce, the tendency is not to do complex cases because, in terms of money, it's not worth for you to do a very complex case for X amount of money as you can do three simple cases for more money in the same time. But that's very variable in terms of the practice decision."

"When you do a Evoque, you just treat the valve as a single procedure. A lot of these patients, they have other problems like blocked arteries, sometimes they have other valves that are leaking. And in general you fix one at a time with transcatheter. The only way to fix all of them, at one time, is with open heart surgery. So all these technologies that they came out like TAVR those kind of procedures they are one valve at a time. I believe that the Evoque is going to be a game changer because we didn't have anything and now we have a valve for patients that were not surgical candidates or high risk. You can be a low risk and you still can have the valve with Evoque. Doesn't mean like this is only going to be for failed surgical patients."

## Experience with Evoque so far

Evoque works very well in the right patient and results from the trial have been good. However, it is not going to explode in all of the centers doing TAVR and will likely be used by those using MitraClip.

"I would say the Evoque is a good valve. It works very well in the right patient. It's not going to explode in all the centers doing TAVR. It's likely going to be used in centers doing MitraClip. And like any first device, you're going to try to simplify it, to make it more user friendly and not just high level centers. The results in my opinion, are pretty



good. We did three last week all part of the trial. I think it has a future unless there's something new coming with all the other valves from intrepid Medtronic we need to see what they're doing."

### Cardiac surgeons vs interventional cardiologists doing the procedure

"The cardiac surgeons are not very enthusiastic about operating on someone. Most of these patients when they get referred their right ventricle is the one that contracts so the heart beats and the blood comes out. The right ventricle is the one that is connected with the tricuspid valve. When the heart beats it sends blood to the lungs. A lot of these patients when they are referred the right ventricle is weak. We're not really competing with surgeons because they don't want to put on their bypass and open the chest if someone might not come out of the machine. So that's why I think they're better sending these patients to transcatheter where it's just in and out with two or three hours and you're done."

## Thoughts on TriClip and lack of hard endpoints in TRILUMINATE data

One year data not long enough and more meaningful differences besides QoL could be seen longer term. QoL benefits alone is enough for some patients. However, being part of the EFS, this KOL believes longer term results not good with TriClip.

"The issue with tricuspid regurgitation is it takes years to show. Though you fix the mechanical problem, your heart already has changes that you might not notice a change the next two to four or five years. I think one year is not too much to see such changes. I think if we have longer follow up we might see a more meaningful difference besides quality of life and survival. Patients want good quality of life so you offer them one day admission and improve their quality of life, it's not bad in my opinion. Not everything is about living longer. Sometimes they want quality only."

"I was part of the EFS and the problem with TriClip is you might get good results today, but the heart will continue to get enlarged and you might not see good results later. So I don't think it's going to be a huge volume for TriClip. There are going to be patients that might just benefit from it."

## **KOL** perspectives on TAVR

#### **SMART trial**

Expect to see higher gradients with Edwards' Sapien but unlikely to translate to more use of Medtronic's Evolut. Longer term data out to five years needed to see impact of a high gradient. No data so far to show a difference in mortality at one year.

"This has been a debate for a while. It's a trial that wants to see if the gradient that you get after putting the valve, does affect mortality, and there's so far no study to show at one year that you have a difference. I think what's going to happen, we're going to see higher gradients with Sapien, we know that they have higher gradients, but I'm not sure that's going to translate on a more use of Evolut. To see the actual impact of a high gradient, you have to wait five years, in my opinion, to see if that's going to be clinically meaningful. In medicine, we use a lot of p values, we call it significant, but there are some significant things that doesn't have a meaningful clinical significance. If you told me the valve gradient is 12 and the other one is ten, they're both low, I don't care. Sure it's clinically statistically significant 10 versus 12, however is that clinically relevant, zero. In my opinion unless the trial shows that there's more mortality, more strokes, more heart failure that could be more meaningful.

It might change some practice in some centers, but at the same time, you have to remember, if you're putting this Evolut valve in younger guys, after 10 years when they



need another valve and they will be older, you might be hosting them to a surgery at an older age because you're not going to be able to put a new valve on top of the old one. One of the benefits that Sapien has by being shorter is that you can have several valves in the future placed inside.

### TAVR in TAVR with Sapien vs Evolut

## TAVR in TAVR better and only approved with Sapien vs Evolut

"With Sapien you can do TAVR in TAVR. When someone has a TAVR the only FDA approved is Sapien in Sapien. An Evolut in Sapien is not FDA approved, it has been done off label but in general it's not so reproducible.

You have more chances of getting a TAVR later on with the Sapien that we don't have with Evolut. At some point there's a game balance between gradients versus reproducibility versus getting access into the coronary. How relevant is the difference in gradient, if the patients are dying more it will be relevant. Then and there will be a conversation. How difficult will it be the second valve in terms of getting the benefit of the gradients, that's what we'll have to see."

#### Sapien vs Evolut

## Edwards' Sapien has 70% market share in the US. Sapien is an easier valve to deploy/use/teach.

"The market I think for the valve is like 70% Sapien in the US and 30% Medtronic, acurate is coming and Navitor. But if you ask me the difference between Sapien and the other valves, Sapien is a very easy valve to deploy. I travel a good amount sometimes in the country to help with other cases. And Sapien is one that you can teach much more easily than an Evolut or any other valve. I think that's why people use more Sapien in the US. It's an easier valve to deploy to use."

## Views on Accurate and Navitor share potential

## Boston Scientific's Accurate and Abbott's Navitor likely to take market share from Medtronic given similarity in how they are deployed vs Edwards.

"I think Navitor and Acurate, they're just going to take market share from Medtronic likely. I don't think they will take much market share from Sapien right now. Because those valves are similar in terms of the way the way they get deployed. And the same when you're planning the second valve, you have to ask yourself, how easy is it going to be to put a second valve after I put an Acurate or a Navitor."

### Sapien 3 Ultra Resilia

## Sapien 3 Ultra Resilia used on all patients though longer term data to five years needed to see if durable or not.

"We have data on surgical valves with Resilia. All the data that we have is from surgical valves. I put all my patients with Resilia because I think "well I'm not the one that is going to be picking on Resilia." It's \$1,000 more expensive than the other one for now, unless they drop the price. So I put everyone on Resilia. I kind of incorporate that surgical data into my TAVR data. We'll have to wait five years and see what happens with the Resilia, do we see durability or not. Because Edwards is coming with a new valve that they're incorporating this commissural alignment to make reproducible the next TAVR in TAVR."

#### Sapien x4

Edwards next-gen valve Sapien 4 incorporates changes in commissural alignment to improve reproducibility and lifetime management of TAVR patients.

"I'm part of the trial. It's too early right now, to be honest. Different mode of deployment. They incorporate some of the same steps. I'm not sure I can tell you a



difference from the actual technology besides commissural alignment. Pretty much you align the valve to the arteries of the heart so when you do a second valve, you could protect those arteries easily. Edwards is kind of approaching into what is called lifetime management to facilitate the lifetime management of someone that needs several valves or couple, three valves."

#### Views on TAVR market

Continues to see growth in TAVR market but varies center to center. Some centers see better profits with surgery vs TAVR.

"The TAVR market is growing and growing every year. We already surpassed the amount of surgical valves. It depends on every center. I get referrals from patient cases that can't be done in other centers. I kind of approach TAVR first in general, unless there's a clear indication where surgery is better. That's why I think it's very local. I think the hospitals might get more money by doing surgery. If the surgeons have more power, than surgery might be more prevalent. It's very cultural.

Our volume, I think, as a system, because we were so busy in downtown where we had the only center, we opened two daughter hospitals where we do low risk cases of TAVR. But we only do TAVRs. Those operators, they don't have the expertise for a MitraClip or Evoque. When we expanded to the other centers, all these cases that were done in downtown, now are not done in downtown so we got more slots to treat mitral and tricuspid.

We've been involved with TAVR from the very beginning of TAVR, was part of the trial, we were enrolling patients in low risk and we were doing low risk bicuspid valve. It's like a different morphology of valve we were part of a registry. I think the increase in volume was different than to other centers because the other centers, they just got it approved when the fda approved it. It's going to grow. I'm not sure if all the companies are trying to get more aortic patients sooner or later. I think as we get older, we all have more chance to get it."

### **EARLY trial and Asymptomatic TAVR**

EARLY TAVR trial results expected to be neutral or positive and as long as results show no harm to patients then there will be a push to treat these patients. Likely won't change the number of TAVRs done since asymptomatic patients not very common, 5 out of 100 patients truly asymptomatic.

"The way I see it is if you wait for symptoms, it's not that you're going to get gradually get worse, you can go from 0-100 in terms of severity. It's not something predictable sometimes. Or if you get any other problem like a bad flu with severe valve, you might still get not very well compensated. I think there's more tendency to treat severe aortic valve. I think if the trials show that there's no improvement in survival, but there's no harm, I think maybe, there's going to be a push to treat asymptomatics because you're not harming them. So we'll see what trial shows, but I don't think there's going to show harm in general. Probably is going to show neutral results or positive. That's my feeling.

I don't think positive data will really change the number of TAVRs I'm doing. The majority are not asymptomatic. From 100 you might get five asymptomatic truly. And to prove that they're asymptomatic, we made them walk on the treadmill. I don't think it's a big number. A lot of the patients they reach the severity they might be already having symptoms. They're not very common in my opinion."



## **KOL** perspectives on mitral

## Pascal for mitral vs MitraClip

Pascal expected to take over the market since it is easier to learn how to use.

### KOL has switched from 100% MitraClip to 60% Pascal.

"I think it's going to overcome the market. Vs MitraClip I don't think there are differences in how you do the devices. Maybe the Pascal has some better niche than the MitraClip in certain anatomies. But the main difference is it's much easier to learn how to do Pascal than to do MitraClip. I trained doctors, and when they're doing a MitraClip, there's so many steps. Assemble the clip, put it in the body. That's compared to a Pascal is much simpler. The guys that are graduating out of college I think they'll use Pascal. We switched our practice from 100% MitraClip before Pascal and now we're already 60% Pascal. That's because it's easy to use. "

## Degenerative mitral regurgitation (DMR) vs functional mitral regurgitation (FMR)

Pascal only approved for DMR which is limiting use of Pascal but there is likely off label use of Pascal in FMR.

"Degenerative is just the problem with the mitral valve itself. Functional is when the mitral fails because the heart dilates, so they don't get together the valves. They are different animals, that's why the FDA is having a trial for the functional.

We follow the book here, so we have someone with functional MR, we can't offer Pascal, only as part of the trial. If someone has primary MR we offer Pascal or MitraClip. I think the adoption is being limited because if you clearly have someone with functional and you do a Pascal, it's not approved for that scenario. It's all about the wording. People call them functional degeneration but functionality but they're truly functional. It happened with MitraClip before it was approved for functional people were using a functional."



## Price objective basis & risk

## **Edwards Lifesciences (EW)**

Our PO of \$105 is based on a 35x PE multiple on our 2025E EPS. We assume with high single digit revenue growth, good margins/cash flow/balance sheet and some upside TAM potential, EW deserves a 35x forward EPS (five turn premium to SYK).

Risks to our PO are: 1) the TAVR market slows if the TAM is not as big as we expect or new populations do not benefit from TAVR, 2) the mitral/tricuspid market does not materialize, 3) EW faces setbacks with its clinical trials or pipeline, 4) the TAVR market becomes more competitive.

## **Analyst Certification**

I, Travis Steed, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

**US - Medical Technology & Devices Coverage Cluster** 

Abbott Laboratories ABT ABT US Travis Steed Axonics AXNX AXNX US Travis Steed Bausch & Lomb BLCO BLCO US Craig Bijou Becton Dickinson BDX BDX US Travis Steed Boston Scientific BSX BSX US Travis Steed Dexcom DXCM DXCM DXCM STravis Steed Edwards Lifesciences EW EW US Travis Steed Inari Medical NARI NARI US Travis Steed Inspire Medical INSP INSP INSP Travis Steed Insulet PODD PODD Travis Steed Meditronic MDT MDT US Travis Steed Meditronic MDT MDT STRAVIS Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RSight RXST RXST US Craig Bijou RSight Stryker SYK SYK US Travis Steed Si-Bone SIBN SIBN SIBN Craig Bijou Stryker SYK SYK SYK US Travis Steed Commed CMMD CNMD STRAVIS Steed GE HealthCare GEHC GEHC Craig Bijou Merit Medical MMSI MMSI Craig Bijou Merit Medical MMSI MMSI Craig Bijou Merit Medical MMSI MMSI Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Morit Medical TFX TFX US Craig Bijou Morit Medical MMSI MMSI Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou UNDERPERFORM	
Axonics AXNX AXNX IS Travis Steed Bausch & Lomb BLCO BLCO US Craig Bijou Becton Dickinson BDX BDX US Travis Steed Boston Scientific BSX BSX US Travis Steed Dexcom DXCM DXCM DXCM US Travis Steed Edwards Lifesciences EW EW US Travis Steed Inari Medical NARI NARI US Travis Steed Inspire Medical INSP INSP US Travis Steed Insulet PODD PODD S Travis Steed Intuitive Surgical ISRG ISRG ISRG US Travis Steed Intuitive Surgical ISRG ISRG US Travis Steed Medtronic MDT MDT US Travis Steed Paragon 28 FNA FNA US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RXSight RXST RXST US Craig Bijou RXSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou NEUTRAL  NEUTRAL  NEUTRAL  BAXE BAX US Travis Steed GE HealthCare GEHC GEHC GEHC Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Teleflex Incorporated TFX TFX TS US Craig Bijou Teleflex Incorporated TFX TFX Craig Bijou Travis Steed TFX TFX US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Travis Steed TFX TFX TFX TFX US Craig Bijou Travis Steed Travis Steed TFX TFX TFX US Craig Bijou Travis Steed Travis Steed Travis Steed Travis Steed Travis Steed TFX TFX TFX US Craig Bijou Travis Steed Travis Steed Travis Steed Travis Steed Travis Steed TFX TFX US Craig Bijou Travis Steed Travis Steed TFX TFX US Craig Bijou Travis Steed Travis Steed TFX TFX US Craig Bijou Travis Steed	
Bausch & Lomb Becton Dickinson Boty Becton Dickinson Boty Boty Boty US Travis Steed Boston Scientific BSX BSX US Travis Steed Dexcom DXCM DXCM US Travis Steed Edwards Lifesciences EW EW US Travis Steed Inari Medical Inspire Medical Inspire Medical Insuite PODD PODD US Travis Steed Insuite PODD PODD US Travis Steed Intuitive Surgical Intuitive Surgical Intuitive Surgical Intuitive Surgical FNA FNA FNA US Paragon 28 FNA FNA FNA US Fravis Steed Medtronic PRCT PRCT US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RxSight RxST RxST US Craig Bijou Shockwave Medical SWAV SWAV US SWAV US Travis Steed Si-Bone SIBN SIBN US SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Travis Steed Conmed CMMD CNMD US Travis Steed GE HealthCare GEHC GEHC GEHC GEHC Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Travis Steed Travis Steed GE HealthCare GEHC GEHC GEHC Craig Bijou Merit Medical MMSI Travis Craig Bijou Travis Craig Bijou Merit Medical MMSI Travis Craig Bijou Travis Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Travis Crai	
Becton Dickinson BDX BDX US Travis Steed Boston Scientific BSX BSX US Travis Steed Dexcom DXCM DXCM US Travis Steed Edwards Lifesciences EW EW US Travis Steed Inari Medical NARI NARI US Travis Steed Inspire Medical Inspire Medical Insulet	
Becton Dickinson Box Boston Scientific BSX BSX US Travis Steed Dexcom DXCM DXCM DXCM US Travis Steed Edwards Lifesciences EW EW US Travis Steed Inari Medical Inspire Medical Insulet	
Dexcom   DXCM   DXCM US   Travis Steed   Edwards Lifesciences   EW   EW US   Travis Steed   Inari Medical   NARI   NARI US   Travis Steed   Inspire Medical   INSP   INSP US   Travis Steed   Inspire Medical   INSP   INSP US   Travis Steed   Insulet   PODD   PODD US   Travis Steed   Insulet   PODD   PODD US   Travis Steed   Intuitive Surgical   ISRG   ISRG US   Travis Steed   Intuitive Surgical   ISRG   ISRG US   Travis Steed   Medtronic   MDT   MDT US   Travis Steed   Medtronic   MDT   MDT US   Travis Steed   Paragon 28   FNA   FNA US   Craig Bijou   Procept BioRobotics Corporation   PRCT   PRCT US   Craig Bijou   RxSight   RXST   RXST US   Craig Bijou   RxSight   RXST   RXST US   Craig Bijou   Shockwave Medical   SWAV   SWAV US   Travis Steed   Si-Bone   SIBN   SIBN US   Craig Bijou   Stryker   SYK   SYK US   Travis Steed   The Cooper Companies   COO   COO US   Craig Bijou   NEUTRAL    NEUTRAL   Baxter International Inc   BAX   BAX   BAX US   Travis Steed   GE HealthCare   GEHC	
Edwards Lifesciences   EW   EW US   Travis Steed   Inari Medical   NARI   NARI US   Travis Steed   Inspire Medical   INSP   INSP US   Travis Steed   Inspire Medical   INSP   INSP US   Travis Steed   Insulet   PODD   PODD US   Travis Steed   Insulet   PODD   PODD US   Travis Steed   Insulet   SRG   ISRG US   Travis Steed   Medtronic   MDT   MDT US   Travis Steed   Medtronic   MDT   MDT US   Travis Steed   Medtronic   MDT   MDT US   Travis Steed   Paragon 28   FNA   FNA US   Craig Bijou   Procept BioRobotics Corporation   PRCT   PRCT US   Craig Bijou   RxSight   RXST   RXST US   Craig Bijou   RxSight   RXST   RXST US   Craig Bijou   Shockwave Medical   SWAV   SWAV US   Travis Steed   Si-Bone   SIBN   SIBN US   Craig Bijou   Stryker   SYK   SYK US   Travis Steed   The Cooper Companies   COO   COO US   Craig Bijou   NEUTRAL  NEUTRAL  NEUTRAL  Baxter International Inc   BAX   BAX US   Travis Steed   Conmed   CNMD   CNMD US   Travis Steed   GEHC   GEHC US   Craig Bijou   Integer Holdings Corporation   ITGR   ITGR US   Craig Bijou   Merit Medical   MMSI   MMSI US   Craig Bijou   Teleflex Incorporated   TFX   TFX US   Craig Bijou   Zimmer Biomet   ZBH   ZBH   ZBH US   Travis Steed   ZBH   ZBH US   Travis Steed   Travis Steed   Travis Steed   Travis Steed   Travis Steed   Travis Steed   TFX   TFX US   Craig Bijou   Travis Steed   Travis Steed   TFX   TFX US   Craig Bijou   Travis Steed	
Inari Medical NARI NARI US Travis Steed Inspire Medical INSP INSP US Travis Steed Inspire Medical INSP INSP US Travis Steed Insulet PODD PODD TOD US Travis Steed Intuitive Surgical ISRG ISRG US Travis Steed Medtronic MDT MDT US Travis Steed Medtronic MDT MDT US Travis Steed Paragon 28 FNA FNA US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RxSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou NEUTRAL  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Commed CNMD CNMD Travis Steed GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI MMSI SUS Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH US Travis Steed	
Inspire Medical INSP INSP US Travis Steed Insulet PODD PODD US Travis Steed Insulet PODD PODD US Travis Steed Intuitive Surgical ISRG ISRG US Travis Steed Medtronic MDT MDT US Travis Steed Paragon 28 FNA FNA US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RxSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Insulet PODD PODD US Travis Steed Intuitive Surgical ISRG ISRG US Travis Steed Medtronic MDT MDT US Travis Steed Medtronic MDT MDT US Travis Steed Paragon 28 FNA FNA US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RXSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CMMD CNMD US Travis Steed GE HealthCare GEHC GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX TFX US Craig Bijou Zimmer Biomet	
Intuitive Surgical ISRG ISRG US Travis Steed Medtronic MDT MDT US Travis Steed Medtronic MDT MDT US Travis Steed Paragon 28 FNA FNA US Craig Bijou Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RXSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou NEUTRAL  **NEUTRAL**  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
MedtronicMDTMDT USTravis SteedParagon 28FNAFNA USCraig BijouProcept BioRobotics CorporationPRCTPRCT USCraig BijouRXSightRXSTRXST USCraig BijouShockwave MedicalSWAVSWAV USTravis SteedSi-BoneSIBNSIBN USCraig BijouStrykerSYKSYK USTravis SteedThe Cooper CompaniesCOOCOO USCraig BijouNEUTRALBaxter International IncBAXBAX USTravis SteedConmedCNMDCNMD USTravis SteedGE HealthCareGEHCGEHC USCraig BijouInteger Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
MedtronicMDTMDT USTravis SteedParagon 28FNAFNA USCraig BijouProcept BioRobotics CorporationPRCTPRCT USCraig BijouRXSightRXSTRXST USCraig BijouShockwave MedicalSWAVSWAV USTravis SteedSi-BoneSIBNSIBN USCraig BijouStrykerSYKSYK USTravis SteedThe Cooper CompaniesCOOCOO USCraig BijouNEUTRALBaxter International IncBAXBAX USTravis SteedConmedCNMDCNMD USTravis SteedGE HealthCareGEHCGEHC USCraig BijouInteger Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RxSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Procept BioRobotics Corporation PRCT PRCT US Craig Bijou RxSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
RXSight RXST RXST US Craig Bijou Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Shockwave Medical SWAV SWAV US Travis Steed Si-Bone SIBN SIBN US Craig Bijou Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Stryker SYK SYK US Travis Steed The Cooper Companies COO COO US Craig Bijou  NEUTRAL  Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Baxter International Inc BAX BAX US Travis Steed Conmed CNMD CNMD US Travis Steed GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Baxter International IncBAXBAX USTravis SteedConmedCNMDCNMD USTravis SteedGE HealthCareGEHCGEHC USCraig BijouInteger Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
ConmedCNMDCNMD USTravis SteedGE HealthCareGEHCGEHC USCraig BijouInteger Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
GE HealthCare GEHC GEHC US Craig Bijou Integer Holdings Corporation ITGR ITGR US Craig Bijou Merit Medical MMSI MMSI US Craig Bijou Teleflex Incorporated TFX TFX US Craig Bijou Zimmer Biomet ZBH ZBH US Travis Steed	
Integer Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
Integer Holdings CorporationITGRITGR USCraig BijouMerit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
Merit MedicalMMSIMMSI USCraig BijouTeleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
Teleflex IncorporatedTFXTFX USCraig BijouZimmer BiometZBHZBH USTravis Steed	
Zimmer Biomet ZBH ZBH US Travis Steed	
INNEDEDEDOM	
UIDERI ERI VRM	
Embecta EMBC EMBC US Travis Steed	
Globus Medical GMED GMED US Craig Bijou	
Integra Lifesciences IART IART US Craig Bijou	
Nevro NVRO NVRO US Travis Steed	
Outset Medical OM OM US Travis Steed	
Silk Road Medical SILK SILK US Travis Steed	
Tandem Diabetes Care TNDM TNDM US Travis Steed	

## **IQ**method<sup>™</sup> Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) × (1 — Tax Rate) + Goodwill Amortization	Total Assets — Current Liabilities + ST Debt + Accumulated Goodwill
Return On Equity Operating Margin Earnings Growth Free Cash Flow	Net Income Operating Profit Expected 5 Year CAGR From Latest Actual Cash Flow From Operations — Total Capex	Amortization Shareholders' Equity Sales N/A N/A
Quality of Earnings Cash Realization Ratio Asset Replacement Ratio Tax Rate Net Debt-To-Equity Ratio Interest Cover	Numerator Cash Flow From Operations Capex Tax Charge Net Debt = Total Debt — Cash & Equivalents EBIT	Denominator Net Income Depreciation Pre-Tax Income Total Equity Interest Expense
Valuation Toolkit Price / Earnings Ratio Price / Book Value Dividend Yield Free Cash Flow Yield Enterprise Value / Sales	Numerator Current Share Price Current Share Price Annualised Declared Cash Dividend Cash Flow From Operations — Total Capex EV = Current Share Price × Current Shares + Minority Equity + Net Debt + Other LT Liabilities	Denominator Diluted Earnings Per Share (Basis As Specified) Shareholders' Equity / Current Basic Shares Current Share Price Market Cap = Current Share Price × Current Basic Shares Sales

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

\*\*Menethod 3\*\*\*is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

\*\*Redatabase\*\* is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

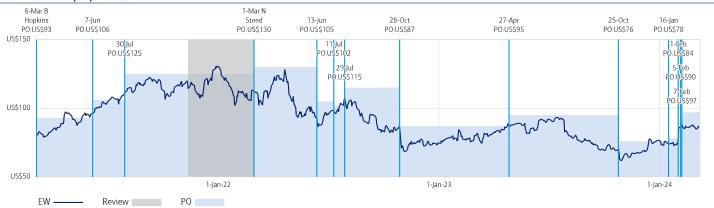
*IQ*profile<sup>SM</sup>, *IQ*method<sup>SM</sup> are service marks of Bank of America Corporation. *IQ*database<sup>®</sup> is a registered service mark of Bank of America Corporation.



## **Disclosures**

## **Important Disclosures**

#### **Edwards Lifesciences (EW) Price Chart**



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

#### Equity Investment Rating Distribution: Health Care Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	234	60.94%	Buy	115	49.15%
Hold	80	20.83%	Hold	36	45.00%
Sell	70	18.23%	Sell	29	41.43%

#### Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

## Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster<sup>R2</sup>

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
nderperform	N/A	≥ 20%

R2Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Edwards Lifesciences.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: Edwards Lifesciences.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: Edwards Lifesciences.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates. Edwards Lifesciences.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: Edwards Lifesciences.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: Edwards Lifesciences

BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Edwards Lifesciences.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: Edwards Lifesciences.



Ur

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

## **Other Important Disclosures**

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

'BofA Securities' includes BofA Securities, Inc. ('BofAS') and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

#### Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at <a href="https://www.bofaml.com/BofASEdisclaimer">www.bofaml.com/BofASEdisclaimer</a>; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Hong Kong): Merr (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel) (Israel): Merrill Lynch (Israel): Merr Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance wi

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

## General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including,



among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

## BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at BofA ESGMeter methodology. ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

## Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies. Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

