Cardiol Therapeutics Inc.

Canada, USA, Germany / Biotechnology Nasdaq, US; TSX, Canada; FSE, Germany Bloomberg: CRDL US ISIN: CA14161Y2006

Pipeline news

RATING	BUY
PRICE TARGET	USD 8.50
Return Potential	342.7%
Risk Rating	High
	/ -

ADDING A PHASE II/III TRIAL IN RP TO EXPAND MARKET POTENTIAL

Cardiol Therapeutics (Cardiol) has announced the initiation of a phase II/III clinical trial within its development programme CardiolRx[™] for the treatment of recurrent pericarditis (RP). The new pivotal study, MAVERIC-2, will target a subset of RP patients, those who discontinue interleukin-1 (IL-1) blocker therapy (i.e. third-line therapy with ARCALYST/rilonacept or KINERET/anakinra). MAVERIC-2 will target the growing proportion of patients who experience a recurrence of pericarditis after discontinuation of IL-1 blockers (up to 75% recurrence rate). CardiolRx[™] represents a potentially effective, more patient-friendly and cost-effective treatment alternative for patients with dependence on IL-1 blockers. Given the high unmet medical need in this population, MAVERIC-2 could offer a potentially faster route to approval. Importantly, MAVERIC-2 will run concurrently with Cardiol's planned MAVERIC-3 without negatively impacting trial timelines and has the potential to expand the addressable market from second-line only (MAVERIC-3) to second- and third-line therapy. The company recently completed a capital increase of USD15.5m to fund the new trial and ongoing operations. The next major catalyst will be the presentation of full clinical data from the MAVERIC-Pilot phase II study in an oral presentation at the American Heart Association Scientific Sessions on 18 November 2024. We have updated our SOTP valuation model, which still yields a price target of USD8.50. We reiterate our Buy recommendation.

Multinational MAVERIC-2 phase II/III study in RP patients after discontinuation of IL-1 blockers – start planned for Q4/24 Cardiol announced plans to add a further pivotal phase III clinical trial to the development programme for its lead drug candidate, CardiolRx[™]. MAVERIC-2, targets patients with recurrent pericarditis (RP) after cessation of IL-1 blocker therapy (i.e. third-line therapy with ARCALYST or KINERET). This multinational, randomised, double-blind, placebo-controlled trial will investigate ~110 patients across ~20 clinical sites in the US and Europe, and is expected to start in Q4/24.

(p.t.o.)

FINANCIAL HISTORY & PROJECTIONS

	2021	2022	2023	2024E	2025E	2026E
Revenue (CAD m)	0.1	0.0	0.0	0.0	0.0	4.5
Y-o-y growth	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
EBIT (CAD m)	-38.7	-41.3	-29.8	-32.2	-40.0	-35.5
EBIT margin	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Net income (CAD m)	-31.6	-30.9	-28.1	-31.5	-38.8	-34.5
EPS (diluted) (CAD)	-0.73	-0.49	-0.44	-0.43	-0.46	-0.96
DPS (CAD)	0.00	0.00	0.00	0.00	0.00	0.00
FCF (CADm)	-23.6	-27.3	-25.2	-25.2	-34.6	-33.5
Net gearing	-110.0%	-110.0%	-113.9%	-123.7%	-130.6%	-144.6%
Liquid assets (CAD m)	83.9	83.9	59.5	34.9	29.4	19.7

RISKS

Risks include, but are not limited to development, regulatory, competition and financial risks.

COMPANY PROFILE

Founded in 2017, Cardiol Therapeutics Inc is a Canadian biotech company focused on the research and development of new drugs to treat heart diseases. The lead drug candidate, CardiolRxTM (cannabidiol) oral solution, is undergoing a US phase II mutil-centre openlabel pilot study in 27 patients with recurrent pericarditis and a multi-national phase II study in 100 patients with acute myocarditis.

MARKET DA	ГА	As of 2	5 Oct 2024			
Closing Price		USD 1.92				
Shares outstand	ding	79.90m				
Market Capitalis	sation	USD	153.41m			
52-week Range		USD 0.	76 / 2.97			
Avg. Volume (12	2 Months)	363,872				
Multiples	2023	2024E	2025E			
P/E	n.a.	n.a.	n.a.			
EV/Sales	n.a.	n.a.	n.a.			
EV/EBIT	n.a.	n.a.	n.a.			
Div. Yield	0.0%	0.0%	0.0%			

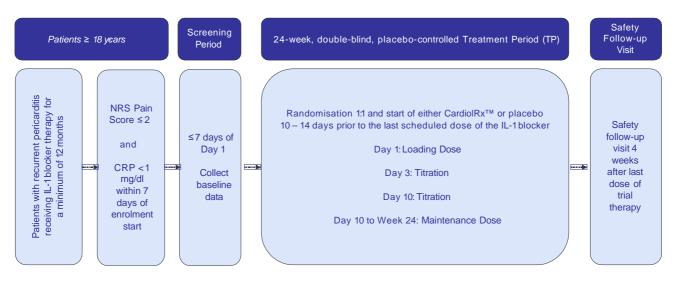
STOCK OVERVIEW



COMPANY DATA	As of 30 Jun 2024
Liquid Assets	CAD 24.02m
Current Assets	CAD 25.88m
Intangible Assets	CAD 0.17m
Total Assets	CAD 26.31m
Current Liabilities	CAD 10.81m
Shareholders' Equity	CAD 15.36m
SHAREHOLDERS	
Management and Directors	4.5%
Tejara Capital Ltd	2.2%
Advisorshares Investments LLC	1.8%
MMCAP International Inc	1.2%
Freefloat & others	90.3%

Primary and secondary endpoints of MAVERIC-2 The MAVERIC-2 trial will focus on patients who have stable disease under IL-1 but then discontinue these expensive and immunosuppressive treatments. The primary goal is to evaluate how well CardiolRxTM prevents RP, and secondary goals include assessing time to recurrence, changes in chest pain, and inflammatory markers such as C-reactive protein – CRP (see figure 1 below).

Figure 1: Overview of the phase III MAVERIC-2 RP study design



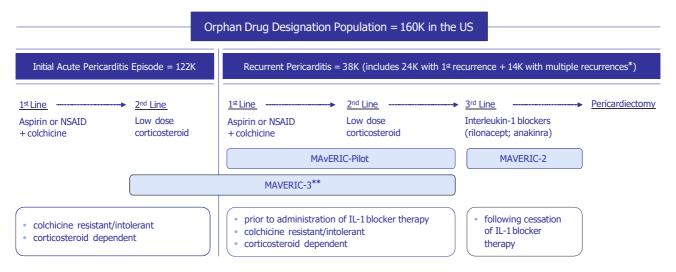
Source: First Berlin Equity Research, Cardiol Therapeutics Inc

Rationale for launching MAVERIC-2 phase II/III study in RP - It will run concurrently with MAVERIC-3 and has the potential to expand the addressable market Cardiol designed MAVERIC-2 in collaboration with an international advisory panel of pericarditis experts. MAVERIC-2 will target RP patients who have discontinued immunosuppressive IL-1 blocker therapy, namely ARCALYST/rilonacept (approved) or KINERET/anakinra (off-label), the third-line treatment for difficult cases of pericarditis. Even though IL-1 blockers are effective, they have significant drawbacks, including their high cost (list price of >USD 200k p.a.), the method of administration (injection), and in particular risk of infection as an immunosuppressant. Unfortunately, recent evidence suggests that many patients develop a dependence on IL-1 blockers and relapse after stopping the medication, with a recurrence rate of up to 75%. It is important to remember that the drug only suppresses the disease, but does not modify the underlying causes. When patients stop treatment, pericarditis recurs quickly, leaving patients in urgent need of an alternative. Given the high unmet medical need of these patients, it may be easier to recruit patients for MAVERIC-2, potentially providing a faster route to approval. MAVERIC-2 will run concurrently with Cardiol's planned MAVERIC-3 trial without negatively impacting trial timelines. In addition, MAVERIC-2 has the potential to expand the addressable market from second-line only (MAVERIC-3) to second- and thirdline therapy (see figure 2 overleaf). This strategy is also expected to enhance the data for MAVERIC-3 and provide a more comprehensive understanding of CardiolRx[™] in the treatment of RP.

ARCALYST/rilonacept prescriptions on the rise – The drug was administered to ~11% of the 14k target population in the US Kiniksa Pharmaceuticals updated its revenue guidance after Q2 2024, raising the expected net product revenue for ARCALYST/rilonacept to between USD405m and USD415m, an increase of ~9-12% from the previous range of USD370m to USD390m. This adjustment reflects ARCALYST's strong sales momentum, (90% Y/Y revenue growth in Q2/24). Since launch in April 2021, >2,300 patients or ~11% of the 14k US patients with multiple recurrences of pericarditis have been treated with ARCALYST. These patients have average treatment duration of about 26 months,

highlighting the long-term dependency on the drug due to its disease-suppressing nature. We therefore believe CardiolRx[™] represents a potential cost-effective alternative for immunosuppressive IL-1 blocker therapy.

Figure 2: Strategic positioning of the MAVERIC-2 and MAVERIC-3 RP studies



* Among patients with \geq 2 recurrence; median disease duration ~3 years and 1/3 patients still impacted at 5 years

** In final planning stage. Subject to applicable regulatory approvals and final study design

Source: First Berlin Equity Research, Cardiol Therapeutics Inc

Capital increase secured funding of USD15.5m for the MAVERIC-2 phase II/III study As at 30 June 2024, the company had cash and cash equivalents of CAD24.0m. In addition, Cardiol recently completed a successful public offering, raising gross proceeds of USD13.5m through the sale of 8.4m shares at a price of USD1.60 per share. Furthermore, Canaccord Genuity, the sole bookrunner for the offering, exercised its over-allotment option, purchasing an additional 1.27m shares. This brought the total gross proceeds to USD15.5m. The funds will be primarily used to support the clinical development of CardiolRx[™] (MAVERIC-2), as well as for general corporate expenses and working capital.

Full data from the MAVERIC-Pilot phase II study due on 18 November 2024 – we also expect further details on the upcoming MAVERIC-3 study design The next major catalyst for Cardiol will be the presentation of full clinical data from the MAVERIC-Pilot phase II study in an oral presentation at the Laennec Clinician-Educator Award & Lecture, on Monday, 18th November, 2024, at 16:45 p.m. CET, at the American Heart Association Scientific Sessions. We will be looking at the effects of CardiolRx[™] in RP patients after 8 weeks of treatment, including additional data from the extension period which include CardiolRx[™] treatment up to 26 weeks. The results will include additional endpoints such as freedom from pericarditis recurrence during the 18-week extension period, 26-week pericarditis pain score and inflammatory marker levels (C-reactive protein), as well as safety and tolerability outcomes. Following the reporting of these results, we expect that Cardiol will publish relevant information and details on MAVERIC-3.

Proof of concept multinational phase II study in 100 acute myocarditis (AM) patients on track to report headline results in early 2025 Cardiol is conducting a phase II proof of concept study (named ARCHER) to investigate the safety, tolerability and efficacy of CardiolRx[™] in 100 AM patients at major cardiac centres in North America, Europe, and Israel. Cardiol reached its target of enrolling the 100 patients by 24 September 2024. Given that the primary endpoint of the trial will be the assessment of patients by magnetic resonance imaging after 12 weeks of double-blind therapy, the company is on track to report headline results in early 2025. We have updated our estimates for 2024 and subsequent years to reflect the addition of MAVERIC-2 In light of Cardiol's decision to conduct a further phase III trial in RP, we have updated our financial forecasts for 2024 and the following years. We have increased our OPEX assumptions for 2024-2026. Changes to our forecasts are summarised in table 1 below.

Table 1: Changes to our forecasts (KPIs)

		2024E			2025E			2026E	
Figures in CAD'000	old	new	Delta	old	new	Delta	old	new	Delta
Revenue	0	0	-	0	0	-	4,510	4,510	0%
OPEX	24,000	32,200	34%	19,000	40,000	111%	17,516	40,000	128%
EBIT	-24,000	-32,200	-	-19,000	-40,000	-	-13,006	-35,490	-
Net financial result	450	1,600	256%	150	1,200	700%	50	1,000	1900%
Non-operating income/expenses	0	-900	-	0	0	-	0	0	-
Net income	-23,700	-31,500	-	-18,900	-38,800	-	-12,956	-34,490	-

Source: First Berlin Equity Research

VALUATION MODEL

Buy rating and price target confirmed Following positive headline results from the MAVERIC-Pilot phase II study published in June 2024 (see details in the Appendix), and in particular evidence that the drug can treat inflammation which is the underlying cause of RP and AM, we see positive prospects for CardiolRxTM in these two indications. These compelling results underpin the company's decision to conduct a phase II/III study, MAVERIC-2, targeting a more difficult-to-treat subset of RP patients, namely those who discontinue IL-1 blocker therapy, with the aim of expanding the drug's market opportunity and potentially accelerating time to market. We expect positive CardiolRxTM data from the MAVERIC-Pilot phase II study in RP (28 November), and the multinational phase II ARCHER study in AM (early 2025) to add substantial value to the company and trigger strong share price appreciation. We have updated our sum-of-the-parts valuation model. The negative stock dilution effect from the capital required to finance the new MAVERIC-2 trial (start in Q4/24) and ongoing operations is roughly offset by the value resulting from the potential expansion of the addressable RP market. Our SOTP model still yields a price target of USD8.50. We maintain our Buy rating on Cardiol.

Table 2: "Sum-of-the-parts" valuation model

Compound	Project ¹⁾		esent alue	Patient Pop	Treatment Cost	Size	Market Share	Sales	PACME Margin ²⁾	Discount Factor	Market Exclusivity ³⁾	Time to Market
				(K)	(USD)	(USDM)	(%)	(USDM)	(%)	(%)	(years)	(years)
CardiolRx™	RP - US	USD	452.2M	40K	52,000	2,080.0M	24%	632.4M	30%	16.0%	7	3
CardiolRx™	RP - EU	USD	242.2M	72K	€18,000	1,296.0M	24%	379.2M	30%	16.0%	7	3
CardiolRx™	AM - US	USD	125.4M	54K	52,000	2,808.0M	18%	652.1M	20%	16.0%	7	5
CardiolRx™	AM - EU	USD	47.3M	72K	18,000	1,296.0M	18%	322.9M	20%	16.0%	7	5
PACME PV		USD	867.2M			7,480.0M		1,986.5M				
Costs PV ⁴⁾		USD	90.0M									
NPV		USD	777.2M									
Milestones P\	/	USD	0.0M									
Net cash (prof	orma)	USD	63.8M									
Fair Value		USD	841.0M									
Share Count (proforma)	98,58	1K									
Price Target		USD 8	3.50									
Price Target		EUR 7	7.90	(based or	n EUR-USD	exchange ra	te of 1.08	3)				

1) A project typically refers to a specific indication or, where necessary or relevant, a combination between indication and geographic market

2) PACME (Profit After Costs and Marketing Expenses) reflects the company's profit share on future revenues.

This share may be derived in the form of royalties (outsourced marketing/manufacturing) or operating EBITDA margin (in-house model),

or some mix of both (depending on the specific parameters of partnership agreements)

3) Remaining market exclusivity after the point of approval

4) Includes company-level R&D, G&A, Financing Costs and CapEx; COGS and S&M are factored into the PACME margin for each project

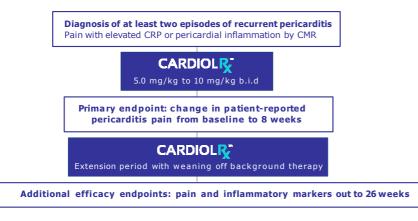
Table 3: Changes to SOTP model assumptions

Estimates	old	new
CardiolRx [™] RP - US Market share (%)	18%	24%
CardiolRx [™] RP - EU Market share (%)	18%	24%
CardiolRx [™] RP - US Present value (PV)	USD 325.8M	USD 452.2M
CardiolRx [™] RP - EU Present value (PV)	USD 176.5M	USD 242.2M
Costs PV	USD 65.7M	USD 90.0M
Net cash (proforma)	USD 43.9M	USD 63.8M
Fair Value	USD 653.3M	USD 841.0M
Share Count (proforma)	76,830K	98,581K
Price Target	USD 8.50	USD 8.50

APPENDIX

MAVERIC-PILOT RP STUDY – HEADLINE RESULTS

Figure 3: Overview of the phase II MAVERIC-Pilot RP study design



Source: First Berlin Equity Research, Cardiol Therapeutics Inc

The primary endpoint: CardiolRx[™] achieved a substantial reduction in pericarditis pain measured with the NRS, which is comparable to rilonacept The patients treated with CardiolRx[™] achieved a mean reduction of 3.7 points from 5.8 at baseline (range of 4 to 10) to 2.1 (range of 0 to 6) at 8 weeks. Importantly, CardiolRx[™]'s performance is very similar to that of the immunosuppressive biologic therapy rilonacept (Arcalyst[®]) in its phase II pilot and phase III trials, which is FDA-approved and is used as a third-line treatment of RP. We give an overview of these results in table 4 below.

Table 4: Patient-reported pericarditis pain: CardiolRx[™] versus rilonacept

n=27	Baseline	Week 8	Difference±	rilonacept	Mean Difference±
Mean	5.8	2.1	-3.7	Phase II (n=9)	-3.8 (EoTPδ)
Range	4.0-10.0	0.0 -6.0		Phase III (n=82)	-3.9 (Week 8)

Baseline NRS scores for both Phase II and Phase III trials was 4.5

*numerical rating scale (NRS) is a validated 11-point instrument used to assess patient-reported pericarditis

pain. Zero represents "no pain at all" whereas the upper limit of 10 represents "the worst pain ever possible".

± Negative value indicates an improvement in CRP.

 δ End of Treatment Period (~Week 6/8)

Rilonacept trial references:

* Klein AL, Lin D, Cremer PC, et al. Efficacy and safety of rilonacept for recurrent pericarditis: results from a phase II

clinical trial. Heart. Published online November 23, 2020. doi:10.1136/heartjnl-2020-317928

* Klein AL, Imazio M, Cremer P, et al . Phase 3 trial of Interleukin-1 Trap Rilonacept in Recurrent

Pericarditis. N Engl J Med. 2021; 384 (1):31-412.doi:10.1056/NEJMoa2027892

Source: First Berlin Equity Research, Cardiol Therapeutics Inc, Allan Klein et al, 2021- phase II & phase III studies

Secondary endpoint of inflammation, as measured by CRP at 8 weeks, also showed **positive results** CardiolRxTM also led to a normalisation of inflammation, as measured by C-reactive protein (CRP) in 80% of patients who took part in the study whose CRP was elevated at baseline. Importantly, 89% of patients have continued into the 18-week extension phase of the study which demonstrates CardiolRxTM is well-tolerated and that they are satisfied with the pain relief achieved. We give an overview of the CRP results compared to rilonacept (Arcalyst[®]) in table 5 overleaf.

Table 5: C-reactive protein: CardiolRx[™] versus rilonacept

	Baseline	Week 8	Difference*	rilonacept	Mean Difference
Mean	5.71	0.31	-5.39	Phase II	-4.24 (EoTP)
Wearr	5.71	0.51	-0.00	Phase III (n=82)	-3.48 (Week 6)

Baseline CRP values: Phase II = 4.62; Phase III = 3.7

*Negative value indicates an improvement in CRP.

Rilonacept trial references:

Klein AL, Lin D, Cremer PC, et al. Efficacy and safety of rilonacept for recurrent pericarditis: results from

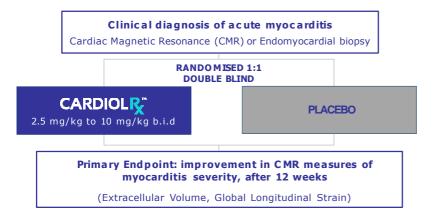
a phase II clinical trial. Heart. Published online November 23, 2020. doi:10.1136/heartjnl-2020-317928.

 Klein AL, Imazio M, Cremer P, et al. Phase 3 Trial of Interleukin-1 Trap Rilonacept in Recurrent Pericarditis. N Engl J Med. 2021;384(1):31-41. doi:10.1056/NEJMoa2027892.

Source: First Berlin Equity Research, Cardiol Therapeutics Inc, Allan Klein et al, 2021- phase II & phase III studies

ARCHER ACUTE MYOCARDITIS (AM) STUDY DESIGN

Figure 4: CardiolRx[™] phase II *ARCHER* acute myocarditis study design



Source: First Berlin Equity Research, Cardiol Therapeutics Inc

INCOME STATEMENT

All figures in CAD '000	2021	2022	2023	2024E	2025E	2026E
Revenue	79	0	0	0	0	4,510
Cost of goods sold	0	0	0	0	0	0
Gross profit	79	0	0	0	0	4,510
General & Administrative	-27,873	-22,374	-15,561	-20,000	-20,000	-20,000
Research & Development	-10,870	-18,962	-14,224	-12,200	-20,000	-20,000
Total operating expenses (OPEX)	-38,744	-41,336	-29,786	-32,200	-40,000	-40,000
Operating income (EBIT)	-38,664	-41,336	-29,786	-32,200	-40,000	-35,490
Net financial result	1,998	4,000	1,326	1,600	1,200	1,000
Non-operating income/expenses	5,029	6,406	331	-900	0	0
Pre-tax income (EBT)	-31,638	-30,931	-28,128	-31,500	-38,800	-34,490
Income taxes	0	0	0	0	0	0
Net income / loss	-31,638	-30,931	-28,128	-31,500	-38,800	-34,490
Diluted EPS (CAD)	-0.73	-0.49	-0.44	-0.43	-0.46	-0.96
Ratios						
EBIT Margin on Revenue	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Net Margin on Revenue	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Expenses as % of OPEX						
General & Administrative	71.9%	54.1%	52.2%	62.1%	50.0%	50.0%
Research & Development	28.1%	45.9%	47.8%	37.9%	50.0%	50.0%
Y-Y Growth						
Revenue	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Operating income	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Net income/ loss	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

BALANCE SHEET

All figures in CAD '000	2021	2022	2023	2024E	2025E	2026E
Assets						
Current Assets, Total	87,140	61,438	36,153	30,908	21,547	13,080
Cash and cash equivalents	83,899	59,470	34,932	29,388	19,727	11,160
Accounts receivables	407	480	280	320	420	420
Inventories	0	0	0	0	0	0
Other current assets	2,834	1,488	941	1,200	1,400	1,500
Non-Current Assets, Total	736	591	547	387	265	240
Property plant and equipment	356	296	337	261	223	198
Intangible assets	379	295	210	126	41	41
Total Assets	87,876	62,029	36,701	31,296	21,812	13,319
Shareholders' Equity & Debt						
Current Liabilities, Total	11,565	9,805	8,295	8,656	8,045	8,116
Accounts payable	4,859	9,334	8,041	7,639	7,028	7,099
Derivative liabilities	6,661	420	238	1,000	1,000	1,000
Other current liabilities	45	50	16	16	17	18
Longterm Liabilities, Total	73	22	159	140	123	110
Other liabilities	73	22	159	140	123	110
Shareholders Equity	76,238	52,202	28,247	22,500	13,643	5,093
Total Consolidated Equity and Debt	87,876	62,029	36,701	31,296	21,812	13,319
Ratios						
Current ratio (x)	7.53	6.27	4.36	3.57	2.68	1.61
Quick ratio (x)	7.53	6.27	4.36	3.57	2.68	1.61
Net gearing	-110.0%	-113.9%	-123.7%	-130.6%	-144.6%	-219.1%
Book value per share (€)	1.76	0.84	0.44	0.31	0.16	0.06
Net debt	-83,899	-59,470	-34,932	-29,388	-19,727	-11,160
Equity ratio	86.8%	84.2%	77.0%	71.9%	62.6%	38.2%

CASH FLOW STATEMENT

All figures in CAD '000	2021	2022	2023	2024E	2025E	2026E
Net income	-31,638	-30,931	-28,128	-31,500	-38,800	-34,490
Interest, net	-1,998	-4,000	-1,326	-1,600	-1,200	-1,000
Tax provision	0	0	0	0	0	0
Non-operating items	-5,029	-6,406	-331	900	0	0
EBIT	-38,664	-41,336	-29,786	-32,200	-40,000	-35,490
Depreciation and amortisation	220	220	248	240	232	182
EBITDA	-38,444	-41,116	-29,537	-31,960	-39,768	-35,308
Derivative liability	-4,916	-6,241	-182	762	0	0
Share & warrant based payments	12,694	6,894	4,173	4,200	4,000	0
Changes in working capital	77	5,748	-546	-700	-910	-29
Cash interest net	1,998	4,000	1,326	1,600	1,200	1,000
Other adjustments	5,052	3,495	-415	1,000	1,000	1,000
Operating cash flow	-23,540	-27,220	-25,180	-25,098	-34,478	-33,337
CapEx	-13	-75	-64	-80	-110	-157
Free cash flow	-23,553	-27,295	-25,245	-25,178	-34,588	-33,494
Other investments	0	0	0	0	0	0
Cash flow from investing	-13	-75	-64	-80	-110	-157
Debt Financing, net	0	0	0	0	0	0
Equity Financing, net	93,489	0	0	19,708	25,000	25,000
Other financiing activities	2,785	-54	-55	-73	-74	-73
Cash flow from financing	93,438	-54	-55	19,635	24,926	24,927
Net cash flows	69,885	-27,349	-25,300	-5,543	-9,662	-8,567
Cash, start of the year	14,025	83,899	59,470	34,932	29,388	19,727
Impact of exchange rates on cash	-11	2,920	762	0	0	0
Cash, end of the year	83,899	59,470	34,932	29,388	19,727	11,160
Y-Y Growth						
Operating Cashflow	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Free cashflow	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Imprint / Disclaimer

First Berlin Equity Research

First Berlin Equity Research GmbH ist ein von der BaFin betreffend die Einhaltung der Pflichten des §85 Abs. 1 S. 1 WpHG, des Art. 20 Abs. 1 Marktmissbrauchsverordnung (MAR) und der Markets Financial Instruments Directive (MiFID) II, Markets in Financial Instruments Directive (MiFID) II Durchführungsverordnung und der Markets in Financial Instruments Regulations (MiFIR) beaufsichtigtes Unternehmen.

First Berlin Equity Research GmbH is one of the companies monitored by BaFin with regard to its compliance with the requirements of Section 85 (1) sentence 1 of the German Securities Trading Act [WpHG], art. 20 (1) Market Abuse Regulation (MAR) and Markets in Financial Instruments Directive (MiFID) II, Markets in Financial Instruments Directive (MiFID) II Commission Delegated Regulation and Markets in Financial Instruments Regulations (MiFIR).

Anschrift: First Berlin Equity Research GmbH Friedrichstr. 34 10117 Berlin Germany

Vertreten durch den Geschäftsführer: Martin Bailey

Telefon: +49 (0) 30-80 93 9 680 Fax: +49 (0) 30-80 93 9 687 E-Mail: <u>info@firstberlin.com</u>

Amtsgericht Berlin Charlottenburg HR B 103329 B UST-Id.: 251601797 Ggf. Inhaltlich Verantwortlicher gem. § 6 MDStV First Berlin Equity Research GmbH

Authored by: Christian Orquera, Analyst All publications of the last 12 months were authored by Christian Orquera.

Company responsible for preparation: First Berlin Equity Research GmbH, Friedrichstraße 69, 10117 Berlin

The production of this recommendation was completed on 28 October 2024 at 15:21

Person responsible for forwarding or distributing this financial analysis: Martin Bailey

Copyright 2024 First Berlin Equity Research GmbH No part of this financial analysis may be copied, photocopied, duplicated or distributed in any form or media whatsoever without prior written permission from First Berlin Equity Research GmbH. First Berlin Equity Research GmbH shall be identified as the source in the case of quotations. Further information is available on request.

INFORMATION PURSUANT TO SECTION 85 (1) SENTENCE 1 OF THE GERMAN SECURITIES TRADING ACT [WPHG], TO ART. 20 (1) OF REGULATION (EU) NO 596/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF APRIL 16, 2014, ON MARKET ABUSE (MARKET ABUSE REGULATION) AND TO ART. 37 OF COMMISSION DELEGATED REGULATION (EU) NO 2017/565 (MIFID) II.

First Berlin Equity Research GmbH (hereinafter referred to as: "First Berlin") prepares financial analyses while taking the relevant regulatory provisions, in particular section 85 (1) sentence 1 of the German Securities Trading Act [WpHG], art. 20 (1) of Regulation (EU) No 596/2014 of the European Parliament and of the Council of April 16, 2014, on market abuse (market abuse regulation) and art. 37 of Commission Delegated Regulation (EU) no. 2017/565 (MiFID II) into consideration. In the following First Berlin provides investors with information about the statutory provisions that are to be observed in the preparation of financial analyses.

CONFLICTS OF INTEREST

In accordance with art. 37 (1) of Commission Delegated Regulation (EU) no. 2017/565 (MiFID) II and art. 20 (1) of Regulation (EU) No 596/2014 of the European Parliament and of the Council of April 16, 2014, on market abuse (market abuse regulation) investment firms which produce, or arrange for the production of, investment research that is intended or likely to be subsequently disseminated to clients of the firm or to the public, under their own responsibility or that of a member of their group, shall ensure the implementation of all the measures set forth in accordance with Article 34 (2) lit. (b) of Regulation (EU) 2017/565 in relation to the financial analysts involved in the production of the investment research and other relevant persons whose responsibilities or business interests may conflict with the interests of the persons to whom the investment research is disseminated. In accordance with art. 34 (3) of Regulation (EU) 2017/565 the procedures and measures referred to in paragraph 2 lit. (b) of such article shall be designed to ensure that relevant persons engaged in different business activities involvies at level of independence appropriate to the size and activities of the investment firm and of the group to which it belongs, and to the risk of damage to the interests of clients.

In addition, First Berlin shall pursuant to Article 5 of the Commission Delegated Regulation (EU) 2016/958 disclose in their recommendations all relationships and circumstances that may reasonably be expected to impair the objectivity of the financial analyses, including interests or conflicts of interest, on their part or on the part of any natural or legal person working for them under a contract, including a contract of employment, or otherwise, who was involved in producing financial analyses, concerning any financial instrument or the issuer to which the recommendation directly or indirectly relates.

With regard to the financial analyses of Cardiol Therapeutics Inc. the following relationships and circumstances exist which may reasonably be expected to impair the objectivity of the financial analyses: The author, First Berlin, or a company associated with First Berlin reached an agreement with the Cardiol Therapeutics Inc. for preparation of a financial analysis for which remuneration is owed.

Furthermore, First Berlin offers a range of services that go beyond the preparation of financial analyses. Although First Berlin strives to avoid conflicts of interest wherever possible, First Berlin may maintain the following relations with the analysed company, which in particular may constitute a potential conflict of interest:

- The author, First Berlin, or a company associated with First Berlin owns a net long or short position exceeding the threshold of 0.5 % of the total issued share capital of the analysed company;
- The author, First Berlin, or a company associated with First Berlin holds an interest of more than five percent in the share capital of the analysed company;

- The author, First Berlin, or a company associated with First Berlin provided investment banking or consulting services for the analysed company within the past twelve months for which remuneration was or was to be paid;
- The author, First Berlin, or a company associated with First Berlin reached an agreement with the analysed company for preparation of a financial analysis for which remuneration is owed;
- The author, First Berlin, or a company associated with First Berlin has other significant financial interests in the analysed company;

With regard to the financial analyses of Cardiol Therapeutics Inc. the following of the aforementioned potential conflicts of interests or the potential conflicts of interest mentioned in Article 6 paragraph 1 of the Commission Delegated Regulation (EU) 2016/958 exist: The author, First Berlin, or a company associated with First Berlin reached an agreement with the Cardiol Therapeutics Inc. for preparation of a financial analysis for which remuneration is owed.

In order to avoid and, if necessary, manage possible conflicts of interest both the author of the financial analysis and First Berlin shall be obliged to neither hold nor in any way trade the securities of the company analyzed. The remuneration of the author of the financial analysis stands in no direct or indirect connection with the recommendations or opinions represented in the financial analysis. Furthermore, the remuneration of the author of the financial analysis is neither coupled directly to financial transactions nor to stock exchange trading volume or asset management fees.

INFORMATION PURSUANT TO SECTION 64 OF THE GERMAN SECURITIES TRADING ACT [WPHG], DIRECTIVE 2014/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 15 MAY 2014 ON MARKETS IN FINANCIAL INSTRUMENTS AND AMENDING DIRECTIVE 2002/92/EC AND DIRECTIVE 2011/61/EU, ACCOMPANIED BY THE MARKETS IN FINANCIAL INSTRUMENTS REGULATION (MIFIR, REG. EU NO. 600/2014).

First Berlin notes that is has concluded a contract with the issuer to prepare financial analyses and is paid for that by the issuer. First Berlin makes the financial analysis simultaneously available for all interested security financial services companies. First Berlin thus believes that it fulfils the requirements of section 64 WpHG for minor non-monetary benefits.

PRICE TARGET DATES

Unless otherwise indicated, current prices refer to the closing prices of the previous trading day.

AGREEMENT WITH THE ANALYSED COMPANY AND MAINTENANCE OF OBJECTIVITY

The present financial analysis is based on the author's own knowledge and research. The author prepared this study without any direct or indirect influence exerted on the part of the analysed company. Parts of the financial analysis were possibly provided to the analysed company prior to publication in order to avoid inaccuracies in the representation of facts. However, no substantial changes were made at the request of the analysed company following any such provision.

ASSET VALUATION SYSTEM

First Berlin's system for asset valuation is divided into an asset recommendation and a risk assessment.

ASSET RECOMMENDATION

The recommendations determined in accordance with the share price trend anticipated by First Berlin in the respectively indicated investment period are as follows:

Category			2
Current market capitalisation (in €)		0 - 2 billion	> 2 billion
Strong Buy ¹	An expected favourable price trend of:	> 50%	> 30%
Buy	An expected favourable price trend of:	> 25%	> 15%
Add	An expected favourable price trend of:	0% to 25%	0% to 15%
Reduce	An expected negative price trend of:	0% to -15%	0% to -10%
Sell	An expected negative price trend of:	< -15%	< -10%

¹ The expected price trend is in combination with sizable confidence in the quality and forecast security of management

Our recommendation system places each company into one of two market capitalisation categories. Category 1 companies have a market capitalisation of $\leq 0 - \leq 2$ billion, and Category 2 companies have a market capitalisation of $> \leq 2$ billion. The expected return thresholds underlying our recommendation system are lower for Category 2 companies than for Category 1 companies. This reflects the generally lower level of risk associated with higher market capitalisation companies.

RISK ASSESSMENT

The First Berlin categories for risk assessment are low, average, high and speculative. They are determined by ten factors: Corporate governance, quality of earnings, management strength, balance sheet and financial risk, competitive position, standard of financial disclosure, regulatory and political uncertainty, strength of brandname, market capitalisation and free float. These risk factors are incorporated into the First Berlin valuation models and are thus included in the target prices. First Berlin customers may request the models.

RECOMMENDATION & PRICE TARGET HISTORY

Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	11 April 2023	USD0.51	Buy	USD3.60
2	24 May 2023	USD0.68	Buy	USD3.60
3	30 August 2023	USD0.98	Buy	USD3.60
4	19 January 2024	USD1.06	Buy	USD3.60
5	27 February 2024	USD1.76	Buy	USD3.60
6	14 June 2024	USD2.36	Buy	USD8.50
7	Today	USD1.92	Buy	USD8.50

INVESTMENT HORIZON

Unless otherwise stated in the financial analysis, the ratings refer to an investment period of twelve months.

UPDATES

At the time of publication of this financial analysis it is not certain whether, when and on what occasion an update will be provided. In general First Berlin strives to review the financial analysis for its topicality and, if required, to update it in a very timely manner in connection with the reporting obligations of the analysed company or on the occasion of ad hoc notifications. **SUBJECT TO CHANGE** The opinions contained in the financial analysis reflect the assessment of the author on the day of publication of the financial analysis. The author of the financial analysis reserves the right to change such opinion without prior notification.

Legally required information regarding

- key sources of information in the preparation of this research report
- valuation methods and principles
- sensitivity of valuation parameters

can be accessed through the following internet link: https://firstberlin.com/disclaimer-english-link/

SUPERVISORY AUTHORITY: Bundesanstalt für Finanzdienstleistungsaufsicht (German Federal Financial Supervisory Authority) [BaFin], Graurheindorferstraße 108, 53117 Bonn and Marie-Curie-Straße 24-28, 60439 Frankfurt am Main

EXCLUSION OF LIABILITY (DISCLAIMER) RELIABILITY OF INFORMATION AND SOURCES OF INFORMATION

The information contained in this study is based on sources considered by the author to be reliable. Comprehensive verification of the accuracy and completeness of information and the reliability of sources of information has neither been carried out by the author nor by First Berlin. As a result no warranty of any kind whatsoever shall be assumed for the accuracy and completeness of information, and neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be liable for any direct or indirect damage incurred through reliance on the accuracy and completeness of information and the reliability of sources of information.

RELIABILITY OF ESTIMATES AND FORECASTS

The author of the financial analysis made estimates and forecasts to the best of the author's knowledge. These estimates and forecasts reflect the author's personal opinion and judgement. The premises for estimates and forecasts as well as the author's perspective on such premises are subject to constant change. Expectations with regard to the future performance of a financial instrument are the result of a measurement at a single point in time and may change at any time. The result of a financial analysis always describes only one possible future development – the one that is most probable from the perspective of the author's of a number of possible future developments.

Any and all market values or target prices indicated for the company analysed in this financial analysis may not be achieved due to various risk factors, including but not limited to market volatility, sector volatility, the actions of the analysed company, economic climate, failure to achieve earnings and/or sales forecasts, unavailability of complete and precise information and/or a subsequently occurring event which affects the underlying assumptions of the author and/or other sources on which the author relies in this document. Past performance is not an indicator of future results; past values cannot be carried over into the future.

Consequently, no warranty of any kind whatsoever shall be assumed for the accuracy of estimates and forecasts, and neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be liable for any direct or indirect damage incurred through reliance on the correctness of estimates and forecasts.

INFORMATION PURPOSES, NO RECOMMENDATION, SOLICITATION, NO OFFER FOR THE PURCHASE OF SECURITIES

The present financial analysis serves information purposes. It is intended to support institutional investors in making their own investment decisions; however in no way provide the investor with investment advice. Neither the author, nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall be considered to be acting as an investment advisor or portfolio manager vis-à-vis an investor. Each investor must form his own independent opinion with regard to the suitability of an investment in view of his own investment objectives, experience, tax situation, financial position and other circumstances.

The financial analysis does not represent a recommendation or solicitation and is not an offer for the purchase of the security specified in this financial analysis. Consequently, neither the author nor First Berlin, nor the person responsible for passing on or distributing the financial analysis shall as a result be liable for losses incurred through direct or indirect employment or use of any kind whatsoever of information or statements arising out of this financial analysis.

A decision concerning an investment in securities should take place on the basis of independent investment analyses and procedures as well as other studies including, but not limited to, information memoranda, sales or issuing prospectuses and not on the basis of this document.

NO ESTABLISHMENT OF CONTRACTUAL OBLIGATIONS

By taking note of this financial analysis the recipient neither becomes a customer of First Berlin, nor does First Berlin incur any contractual, quasi-contractual or pre-contractual obligations and/or responsibilities toward the recipient. In particular no information contract shall be established between First Berlin and the recipient of this information.

NO OBLIGATION TO UPDATE

First Berlin, the author and/or the person responsible for passing on or distributing the financial analysis shall not be obliged to update the financial analysis. Investors must keep themselves informed about the current course of business and any changes in the current course of business of the analysed company.

DUPLICATION

Dispatch or duplication of this document is not permitted without the prior written consent of First Berlin.

SEVERABILITY

Should any provision of this disclaimer prove to be illegal, invalid or unenforceable under the respectively applicable law, then such provision shall be treated as if it were not an integral component of this disclaimer; in no way shall it affect the legality, validity or enforceability of the remaining provisions.

APPLICABLE LAW, PLACE OF JURISDICTION

The preparation of this financial analysis shall be subject to the law obtaining in the Federal Republic of Germany. The place of jurisdiction for any disputes shall be Berlin (Germany).

NOTICE OF DISCLAIMER

By taking note of this financial analysis the recipient confirms the binding nature of the above explanations.

By using this document or relying on it in any manner whatsoever the recipient accepts the above restrictions as binding for the recipient.

QUALIFIED INSTITUTIONAL INVESTORS

First Berlin financial analyses are intended exclusively for qualified institutional investors.

This report is not intended for distribution in the USA and/or Canada.