REPLIDYNE INC Form SC 13G/A February 11, 2009

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G*

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO

FILED PURSUANT TO RULE 13D-2

(Amendment No. 1)*

Replidyne, Inc.

(Name of Issuer)

Common Stock, \$.001 par value per share

(Title of Class of Securities)

76028W107

(CUSIP Number)

Edgar Filing: REPLIDYNE INC - Form SC 13G/A

December 31, 2008

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

X Rule 13d-1(d)

*

The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP No. 76028W107

		,	100	1 ugo 2 01 21 11
1	NAME OF REPORT	TING PERS	ONS	
	I.R.S. IDENTIFICA	TION NO.	OF ABOVE PERSONS (ENTITIES ONLY))
	HealthCare Ventur	es VI, L.P.		
2			BOX IF A MEMBER OF A GROUP*	
				(a) (b)
2				
3	SEC USE ONLY			
4	CITIZENSHIP OR I	PLACE OF	ORGANIZATION	
-				
	USA			
	UBA	5	SOLE VOTING POWER	
			0	
]	NUMBER OF	6	SHARED VOTING POWER	
	SHARES	_	3,612,362	
BI	ENEFICIALLY	7	SOLE DISPOSITIVE POWER	
	OWNED BY	8	0 SHARED DISPOSITIVE POWER	
	EACH		3,612,362	
			-,,	
	REPORTING			
	PERSON			
	WITH			

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3,612,362 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

13.33%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. 76028W107

1	NAME OF REPORTI		ONS OF ABOVE PERSONS (ENTITIES ON	LY)	
HealthCare Partners VI, L.P. 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) (b)					
3	SEC USE ONLY				
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION				
	USA	5	SOLE VOTING POWER		
BI	NUMBER OF SHARES ENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6 7 8	0 SHARED VOTING POWER 3,612,362 SOLE DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 3,612,362		

Page 3 of 21 Pages

3,612,362 (see Item 4 herein)

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

13.33%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. 76028W107

1 NAME OF REPOR	RTING PERS	ONS
I.R.S. IDENTIFIC	ATION NO.	OF ABOVE PERSONS (ENTITIES ONLY)
HealthCare Ventu	ures VIII, L.I	Р.
2 CHECK THE APP	PROPRIATE	BOX IF A MEMBER OF A GROUP* (a)
		(a) (b)
3 SEC USE ONLY		
5 SEC USE ONE I		
4 CITIZENSHIP OR	PLACE OF	ORGANIZATION
USA		
	5	SOLE VOTING POWER
		0
NUMBER OF	6	SHARED VOTING POWER
SHARES	7	746,707 SOLE DISPOSITIVE POWER
BENEFICIALLY	1	
OWNED BY	8	0 SHARED DISPOSITIVE POWER
EACH		746,707
REPORTING		
PERSON		
WITH		

Page 4 of 21 Pages

746,707 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

2.75%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. 76028W107

1	NAME OF REPOR' I.R.S. IDENTIFICA		ONS OF ABOVE PERSONS (ENTITIES ONLY)
2	HealthCare Partne CHECK THE APPF		P. BOX IF A MEMBER OF A GROUP* (a) (b)
3	SEC USE ONLY		
4	CITIZENSHIP OR 1	PLACE OF	ORGANIZATION
	USA	5	SOLE VOTING POWER
	NUMBER OF SHARES	6 7	0 SHARED VOTING POWER 746,707 SOLE DISPOSITIVE POWER
BENEFICIALLY OWNED BY		8	0 SHARED DISPOSITIVE POWER
	ЕАСН		746,707
]	REPORTING		
	PERSON		
	WITH		

Page 5 of 21 Pages

746,707 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

2.75%

12 TYPE OF REPORTING PERSON*

PN

CUSIP No. 76028W107

1	NAME OF REPORT		SONS OF ABOVE PERSONS (ENTITIES ONLY)		
2	(a)				
3	3 SEC USE ONLY (b)				
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION				
	USA	5	SOLE VOTING POWER		
		6	0 SHARED VOTING POWER		
Γ	NUMBER OF SHARES	7	746,707 SOLE DISPOSITIVE POWER		
BF	BENEFICIALLY		0		
OWNED BY		8	SHARED DISPOSITIVE POWER		
	EACH		746,707		
]	REPORTING				
	PERSON				
	WITH				

Page 6 of 21 Pages

746,707 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

2.75%

12 TYPE OF REPORTING PERSON*

00

CUSIP No. 76028W107

				-
1	NAME OF REPORT	ING PERS	ONS	
	I.R.S. IDENTIFICA	ΓΙΟΝ NO. (OF ABOVE PERSONS (ENTITIES ON	LY)
	James H. Cavanaug	sh, Ph.D.		
2	CHECK THE APPR	OPRIATE I	BOX IF A MEMBER OF A GROUP*	(a)
				(b)
3	SEC USE ONLY			
4	CITIZENSHIP OR F	LACE OF	ORGANIZATION	
	USA	-		
		5	SOLE VOTING POWER	
		6	0 SHARED VOTING POWER	
ľ	NUMBER OF	-	4,359,069	
	SHARES	7	SOLE DISPOSITIVE POWER	
BE	ENEFICIALLY		0	
	OWNED BY	8	SHARED DISPOSITIVE POWER	
	EACH		4,359,069	
]	REPORTING			
	PERSON			
	WITH			

Page 7 of 21 Pages

4,359,069 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

16.08%

12 TYPE OF REPORTING PERSON*

C	CUSIP No. 76028W107		13G	Page 8 of 21 Pag	;es
1			ONG		
1	NAME OF REPORTIN				
	I.R.S. IDENTIFICATI	ON NO. (OF ABOVE PERSONS (ENTITIES ON	_Y)	
	u unw				
2	Harold R. Werner CHECK THE APPRO	PRIATE I	3OX IF A MEMBER OF A GROUP*		
				(a) (b)	
				(0)	
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	ACE OF (ORGANIZATION		
	USA				
		5	SOLE VOTING POWER		
			0		
l	NUMBER OF	6	SHARED VOTING POWER		
	SHARES	7	4,359,069 SOLE DISPOSITIVE POWER		
BENEFICIALLY			0		
	OWNED BY	8	SHARED DISPOSITIVE POWER		
	EACH		4,359,069		
]	REPORTING				
	PERSON				
	WITH				

4,359,069 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

 $16.08\,\%$

12 TYPE OF REPORTING PERSON*

C	CUSIP No. 76028W107		13G		Page 9 of 21 Pages
1	NAME OF REPORTIN	NG PERSO	ONS		
1			OF ABOVE PERSONS (ENTITIES ON	LY)	
			×	,	
	William Crouse				
2	CHECK THE APPRO	PRIATE E	OX IF A MEMBER OF A GROUP*		
				(a) (b)	
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	ACE OF C	DRGANIZATION		
	USA				
	USA	5	SOLE VOTING POWER		
			0		
I	NUMBER OF	6	SHARED VOTING POWER		
	SHARES	7	3,612,362 SOLE DISPOSITIVE POWER		
BI	ENEFICIALLY		0		
	OWNED BY	8	SHARED DISPOSITIVE POWER		
	EACH		3,612,362		
]	REPORTING				
	PERSON				
	WITH				

3,612,362 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

13.33%

12 TYPE OF REPORTING PERSON*

С	USIP No. 76028W107		13G		Page 10 of 21 Pages
1	NAME OF REPORTIN	G PERSC	DNS		
	I.R.S. IDENTIFICATIO	ON NO. O	F ABOVE PERSONS (ENTITIES ON)	LY)	
	John W. Littlechild				
2		RIATE B	OX IF A MEMBER OF A GROUP*	(a)	
				(a) (b)	
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	ACE OF C	PRGANIZATION		
	USA	5	SOLE VOTING POWER		
		5	0		
ľ	NUMBER OF	6	SHARED VOTING POWER		
	SHARES 7		4,359,069 SOLE DISPOSITIVE POWER		
BENEFICIALLY			0		
OWNED BY 8		8	SHARED DISPOSITIVE POWER		
EACH			4,359,069		
]	REPORTING				
	PERSON WITH				

4,359,069 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

16.08%

12 TYPE OF REPORTING PERSON*

CUSIP No. 76028W107

1	NAME OF REPORT	ING PERS	ONS	
-			OF ABOVE PERSONS (ENTITIES ONI	V)
	I.K.S. IDLIVIII ICA			21)
	Christopher Mirab	alli Ph D		
2			BOX IF A MEMBER OF A GROUP*	
				(a) (b)
3	SEC USE ONLY			
4	CITIZENSHIP OR F	LACE OF	ORGANIZATION	
	USA			
		5	SOLE VOTING POWER	
			0	
ľ	NUMBER OF	6	SHARED VOTING POWER	
	SHARES	7	4,359,069 SOLE DISPOSITIVE POWER	
BF	ENEFICIALLY		0	
	OWNED BY	8	SHARED DISPOSITIVE POWER	
	EACH		4,359,069	
I	REPORTING			
	PERSON			
	WITH			

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4,359,069 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

 $16.08\,\%$

12 TYPE OF REPORTING PERSON*

C	CUSIP No. 76028W107		13G		Page 12 of 21 Pages
1	NAME OF REPORTI	NG PERSO	NS		
1			F ABOVE PERSONS (ENTITIES ON	(Y)	
				/	
	Augustine Lawlor				
2	CHECK THE APPRO	PRIATE B	OX IF A MEMBER OF A GROUP*	(a)	
				(a) (b)	
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	ACE OF C	DRGANIZATION		
	USA	5	SOLE VOTING POWER		
			24,469		
I	NUMBER OF	6	SHARED VOTING POWER		
	SHARES	7	4,359,069 SOLE DISPOSITIVE POWER		
BI	ENEFICIALLY		24,469		
	OWNED BY	8	SHARED DISPOSITIVE POWER		
	EACH		4,359,069		
]	REPORTING				
	PERSON				
	WITH				

4,383,538 (see Item 4 herein)

- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

16.16%

12 TYPE OF REPORTING PERSON*

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Item 1.

(a)

The name of the Issuer is Replidyne, Inc. (the Issuer).

(b)

Address of Issuer s Principal Executive Offices is 1450 Infinite Drive, Louisville, CO 80027.

Item 2.

(a)

This statement is being filed by:

HealthCare Ventures VI, L.P. ("HCV VI")

HealthCare Partners VI, L.P. ("HCP VI")

HealthCare Ventures VIII, L.P. (HCV VIII")

HealthCare Partners VIII, L.P. ("HCP VIII")

HealthCare Partners VIII, LLC (HCP VIII LLC)

James H. Cavanaugh, Ph.D. (Cavanaugh)

Christopher Mirabelli, Ph.D. (Mirabelli)

Harold R. Werner (Werner)

John W. Littlechild (Littlechild)

William Crouse (Crouse)

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Augustine Lawlor (Lawlor)

(collectively, the Reporting Persons)

See attached Exhibit A, which is a copy of their agreement in writing to file this statement on behalf of each of them.¹

(b)

The business address for HCV VI, HCP VI, HCV VIII, HCP VIII, HCP VIII LLC, Dr. Cavanaugh and Messrs. Werner and Crouse is 44 Nassau Street, Princeton, New Jersey 08542. The business address for Dr. Mirabelli and Messrs. Littlechild and Lawlor is 55 Cambridge Parkway, Suite 301, Cambridge, Massachusetts 02142.

(c)

HCV VI, HCP VI, HCV VIII and HCP VIII are limited partnerships organized under the laws of the State of Delaware. HCP VIII LLC is a limited liability company organized under the laws of the State of Delaware. Drs. Cavanaugh and Mirabelli and, Messrs. Werner, Littlechild, Crouse and Lawlor are each United States citizens.

(d)

This Schedule 13G relates to the common stock, par value \$0.001 per share (the Common Stock) of the Issuer.

(e)

The CUSIP Number of the Issuer is 76028W107

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Drs. Cavanaugh and Mirabelli and, Messrs. Werner, Littlechild, Crouse and Lawlor are General Partners of HCP VI. HCP VI is the General Partner of HCV VI, the record holder of the securities. Drs. Cavanaugh and Mirabelli and, Messrs. Werner, Littlechild and Lawlor are the Managing Directors of HCP VIII LLC. HCP VIII LLC is the General Partner of HCP VIII, which is the General Partner of HCV VIII, the record holder of the securities.

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Item 3.

If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: Not applicable.

- (a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8);
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) A non-U.S. institution, in accordance with §240.13d-1(b)(1)(ii)(J);
- (k) Group, in accordance with 240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution:

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Item 4.

Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a)

Amount beneficially owned²:

As of December 31, 2008: HCV VI, HCP VI and Crouse beneficially owned 3,612,362 shares of the Issuer s Common Stock; HCV VIII, HCP VIII, and HCP VIII LLC beneficially owned 746,707 shares of the Issuer s Common Stock; Each of Drs. Cavanaugh and Mirabelli and Messrs. Werner and Littlechild beneficially owned the 4,359,069 shares of the Issuer s Common Stock owned by each of HCV VI and HCV VIII; and Mr. Lawlor beneficially owned 4,383,538 shares of the Issuer s Common Stock which includes (i) an aggregate of 4,359,069 shares beneficially owned by HCV VI and HCV VIII; and (ii) immediately exercisable options to purchase 24,469 shares of the Issuer s Common Stock.

(b)

Percent of class: (Taking into consideration that 27,109,556 shares are issued and outstanding as of October 23, 2008 as reported in the Issuer s Form 10-Q filed with the Securities and Exchange Commission on November 6, 2008 for the period ended September 30, 2008)

As of December 31, 2008: The 3,612,362 shares of Common Stock beneficially owned by HCV VI, HCP VI and Mr. Crouse constituted 13.33% of the shares outstanding; the 746,707 shares of Common Stock beneficially owned by HCV VIII, HCP VIII and HCP VIII LLC constituted 2.75% of the shares outstanding; the 4,359,069 shares of Common Stock beneficially owned by Drs. Cavanaugh and Mirabelli and Messrs. Werner and Littlechild constituted 16.08% of the shares outstanding; and the 4,383,538 shares of Common Stock beneficially owned by Mr. Lawlor constituted 16.16% of the shares outstanding.

2.

On November 3, 2008, each of HCV VI and HCV VIII entered into a voting agreement (the Voting Agreement) with Cardiovascular Systems, Inc. (CSI) in connection with an Agreement and Plan of Merger and Reorganization (the Merger Agreement) by and among the Issuer, Responder Merger Sub, Inc., a Minnesota corporation (Merger Sub) and CSI with respect to 2,964,167 shares of Common Stock of the Issuer owned by them. Pursuant to the Merger Agreement Merger Sub will merge with and into CSI and the outstanding shares of capital stock of CSI will be converted into the right to receive shares of the Common Stock of the Issuer. Pursuant to the Voting Agreement, each of HCV VI and HCV VIII agreed, among other things, (i) not to transfer the 2,964,167 shares of Common Stock owned by them representing approximately 10.9% of the outstanding shares of Common Stock; and (ii) to vote such shares in favor of approval of the transactions contemplated under the Merger Agreement and against the approval or adoption of any alternative transactions. In addition, each of HCV VI and HCV VIII granted to each of David L. Martin, Laurence L. Betterley and CSI a proxy to vote the 2,964,167 shares of Common Stock owned by them in favor of approval of the transactions contemplated under the Merger Agreement. Each of David L. Martin, Lauarence L. Betterly and CSI have the sole voting power over these shares solely with respect to the specific matters identified in the Voting Agreement and each of HCV VI and HCV VIII retains sole voting power and beneficial ownership with respect to all other matters. A copy of the form of Voting Agreement is filed as Annex B to the Issuer s Proxy filed with the Securities and Exchange Commission on January 27, 2009.

3.

Does not include options to purchase an additional 8,156 shares of the Issuer s Common Stock, which vest on May 8, 2009.

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(c)

Number of shares as to which the person has:

(i)

Sole power to vote or to direct the vote Mr. Lawlor has the sole power to vote or direct the vote as to the 24,469 shares beneficially owned by him.

(ii)

Shared power to vote or to direct the vote

HCV VI, HCP VI, Drs. Cavanaugh and Mirabelli and Messrs. Werner, Littlechild, Crouse and Lawlor share the power to vote or direct the vote of those shares owned by HCV VI.

HCV VIII, HCP VIII, HCP VIII LLC, Drs. Cavanaugh and Mirabelli and Messrs. Werner, Littlechild and Lawlor share the power to vote or direct the vote of those shares owned by HCV VIII.

(iii)

Sole power to dispose or to direct the disposition of Mr. Lawlor has the sole power to dispose of or direct the disposition of the 24,469 shares beneficially owned by him.

(iv)

Shared power to dispose or to direct the disposition of

HCV VI, HCP VI, Drs. Cavanaugh and Mirabelli and Messrs. Werner, Littlechild, Crouse and Lawlor share the power to dispose of or direct the disposition of those shares owned by HCV VI.

HCV VIII, HCP VIII, HCP VIII LLC, Drs. Cavanaugh and Mirabelli and Messrs. Werner, Littlechild and Lawlor share the power to dispose of or direct the disposition of those shares owned by HCV VIII.

Instruction. For computations regarding securities which represent a right to acquire an underlying security see §240.13d-3(d)(1).

Item 5.

Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

Item 6.

Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable

Item 7.

Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

Not Applicable

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Item 8.

Identification and Classification of Members of the Group.

Not Applicable

Item 9.

Notice of Dissolution of Group.

Not Applicable

Item 10.

Certification

Not Applicable.

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SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: February 11, 2009	HealthCare Ventures VI, L.P.		
2007	By:	HealthCare Partners VI, L.P., its General Partner	
	By:	/s/Jeffrey Steinberg	
		Jeffrey Steinberg, Administrative Partner	
Dated: February 11, 2009	HealthCare Partners V	Ί, L.P.	
	By:	/s/Jeffrey Steinberg	
		Jeffrey Steinberg, Administrative Partner	
Dated: February 11, 2009	HealthCare Ventures	VIII, L.P.	
	By:	HealthCare Partners VIII, L.P., its General Partner	
		By: HealthCare Partners VIII, LLC, its General	
		Partner	
		By: /s/Jeffrey Steinberg	
		Jeffrey Steinberg, Administrative Partner	

Dated: February 11, 2009

HealthCare Partners VIII, L.P.

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By:	HealthCare Partners VIII, LLC, its General Partner
By:	/s/Jeffrey Steinberg Jeffrey Steinberg, Administrative Partner
HealthCare Partners V	III, LLC
By:	/s/Jeffrey Steinberg Jeffrey Steinberg, Administrative Partner
	By: HealthCare Partners V

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Dated: February 11, 2009	/s/Jeffrey Steinberg, A James H. Cavanaugh,	
Dated: February 11, 2009	/s/Jeffrey Steinberg, A Harold Werner	ttorney-in-Fact
Dated: February 11, 2009	/s/Jeffrey Steinberg, A William Crouse	ttorney-in-Fact
Dated: February 11, 2009	/s/Jeffrey Steinberg, A John W. Littlechild	ttorney-in-Fact
Dated: February 11, 2009	/s/Jeffrey Steinberg, A Christopher Mirabelli,	
Dated: February 11, 2009	/s/Jeffrey Steinberg, A Augustine Lawlor	ttorney-in-Fact

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EXHIBIT A

AGREEMENT

JOINT FILING OF SCHEDULE 13G

The undersigned hereby agree to jointly prepare and file with regulatory authorities a Schedule 13G and any future amendments thereto reporting each of the undersigned's ownership of securities of Replidyne, Inc. and hereby affirm that such Schedule 13G is being filed on behalf of each of the undersigned.

Dated: February 11, 2009	HealthCare Ventures VI, L.P.		
	By:	HealthCare Partners VI, L.P., its General Partner	
	By:	/s/Jeffrey Steinberg	
		Jeffrey Steinberg, Administrative Partner	
Dated: February 11, 2009	HealthCare Pa	artners VI, L.P.	
	By:	/s/Jeffrey Steinberg	
		Jeffrey Steinberg, Administrative Partner	
Dated: February 11, 2009	HealthCare V	entures VIII, L.P.	
	By:	HealthCare Partners VIII, L.P., its General Partner	
		By: HealthCare Partners VIII, LLC, its	
		General	

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Partner

By: /s/Jeffrey Steinberg Jeffrey Steinberg, Administrative Partner

Dated: February 11, 2009	HealthCare Partners VIII, L.P.		
	By:	HealthCare Partners VIII, LLC, its General Partner	
	By:	/s/Jeffrey Steinberg Jeffrey Steinberg, Administrative Partner	
Dated: February 11, 2009	HealthCare Pa	artners VIII, LLC	
	By:	/s/Jeffrey Steinberg Jeffrey Steinberg, Administrative Partner	

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Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact
	James H. Cavanaugh, Ph.D.
Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact Harold Werner
Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact William Crouse
Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact John W. Littlechild
Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact Christopher Mirabelli, Ph.D.
Dated: February 11, 2009	/s/Jeffrey Steinberg, Attorney-in-Fact

Augustine Lawlor