#### **COMPANY NOTE**

Company Update

USA | Healthcare | Biotechnology

December 8, 2014

## **Jefferies**

\$0.0

\$104.0

\$722.4

\$722.4

66.3%

8.7%

23.7

NA

\$35.45 - \$9.66

Price target \$35.00 Price \$30.48

### Atara Biotherapeutics (ATRA) **Responses Continue to Improve in Phase 2** CMV Data from Collaborator MSKCC

#### **Key Takeaway**

Collaborators from Memorial Sloan Kettering (MSKCC) presented phase 2 data from use of their transplant donor derived T cell lines for the treatment of cytomegalovirus (CMV) viremia and disease after allogeneic hematopoetic stem cell transplant (HSCT). We view the high response rates including the conversion of PR/SD to CR over time and relatively clean safety profile as positive for the program and more broadly the approach.

Phase 2 CMV data. Data was reported on 38 treated patients (overt CMV disease: 12

and CMV viremia: 26) that received 3 weekly infusions (1x10 CMV-CTL/kg/infusion) or higher in patients without toxicity who had failed at least 14 days (median: 113) of multiple antiviral therapies. Initial data demonstrated that in 34/38 evaluable patients, 7 achieved CRs (complete response), 14 PRs (partial response; 62% ORR), 6 SD (stable disease), and 7 progressed. In updated longer-term data reported yesterday at ASH, responses improved over time with 6/20 PR/SD patients achieving CR. 11/12 CR patients continued to remain a CR, 6/7 PD patients died of CMV, and 3/27 with CR/PR/SD also died. There was no evidence of graft vs host disease (GvHD).

ATRA could exercise option to multiple adoptive T cell programs. ATRA has an exclusive option agreement for the development and commercialization of these allogeneic T cell therapies targeted to either EBV for the treatment of EBV-associated lymphoma and other malignancies (phase 2), CMV for the treatment of CMV infection or persistent CMV viremia after allogeneic HSCT (phase 2), or WT1 for the treatment of hematologic and solid tumors (phase 1). We expect management to obtain feedback on the regulatory path forward prior to exercising this option.

Multiple upcoming catalysts in 2015. ATRA's key clinical programs are expected to have data next year including: phase 2 data for PINTA 745 to treat PEW in ESRD patients in 2H15, potential preliminary data for STM 434 in 2H15, and potential data from the various MSK adoptive T cell programs.

#### Valuation/Risks

Our \$35 PT is DCF-based. Risks include clinical, regulatory, competitive, commercial.

| Insider Ownership:       |
|--------------------------|
| Institutional Ownership: |
| Shares Out. (MM):        |
| Float (MM):              |
| Avg. Daily Vol.:         |
|                          |
|                          |
|                          |
|                          |
|                          |
|                          |
|                          |
|                          |
|                          |
|                          |

**Financial Summary** 

Cash & ST Invest. (MM):

Total Entprs. Value (MM):

Net Debt (MM):

**Market Data** 

52 Week Range:

Market Cap. (MM):

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| USD       | Prev. | 2013A  | Prev. | 2014E   | Prev. | 2015E  | Prev. | 2016E  |
|-----------|-------|--------|-------|---------|-------|--------|-------|--------|
| Rev. (MM) |       | 0.0    |       | 0.0     |       | 0.0    |       | 0.0    |
| EPS       |       |        |       |         |       |        |       |        |
| Mar       |       |        |       | (1.02)A |       |        |       |        |
| Jun       |       |        |       | (0.33)A |       |        |       |        |
| Sep       |       |        |       | (0.31)A |       |        |       |        |
| Dec       |       |        |       | (0.31)  |       |        |       |        |
| FY Dec    |       | (1.28) |       | (1.16)  |       | (1.48) |       | (2.00) |
| FY P/E    |       | NM     |       | NM      |       | NM     |       | NM     |
|           |       |        |       |         |       |        |       |        |

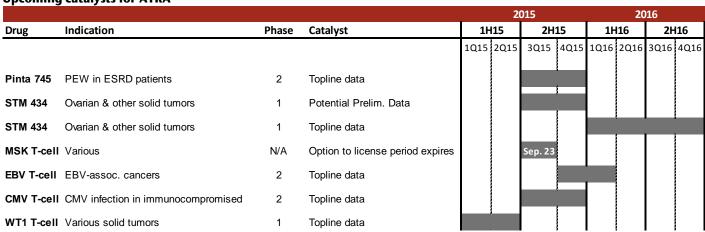
# **Price Performance** $\Lambda$ L 30 15

#### **ATRA**

**Company Update** 

December 8, 2014

**Upcoming catalysts for ATRA** 



Source: Jefferies estimates, company data

| ATRA Income Statement: 2013/                    | A-2020E                    |                             |                          |                 |                          |                              |                           |                           |                          |                           |                          |                         |
|---|----------------------------|-----------------------------|--------------------------|-----------------|--------------------------|------------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-------------------------|
| (In Millions, except per share data)            | 2013A                      | 1Q14A                       | 2Q14A                    | 3Q14A           | 4Q14E                    | 2014E                        | 2015E                     | 2016E                     | 2017E                    | 2018E                     | 2019E                    | 2020E                   |
| Revenues  |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           |                          |                         |
| PINTA 745 WW Sales (prob. adjusted)             |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           | 81.3                     | 185.3                   |
| STM 434 WW Sales (prob. adjusted)               |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           | -                        | 15.8                    |
| EBV T-cell WW sales (prob. adjusted)            |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           | -                        | -                       |
| Total Revenues                                  | -                          | -                           | -                        | -               | -                        | -                            | -                         | -                         | -                        | -                         | 81.3                     | 201.1                   |
| Operating Expenses                              |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           |                          |                         |
| COGS  |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           | 12.2                     | 30.2                    |
| % of sales                                      | N/A                        | N/A                         | N/A                      | N/A             | N/A                      | N/A                          | N/A                       | N/A                       | N/A                      | N/A                       | 15%                      | 15%                     |
| R&D   | 4.9                        | 3.0                         | 3.2                      | 4.2             | 4.5                      | 14.7                         | 19.0                      | 25.0                      | 40.0                     | 55.0                      | 65.0                     | 70.0                    |
| % of sales                                      | N/A                        | N/A                         | N/A                      | N/A             | N/A                      | N/A                          | N/A                       | N/A                       | N/A                      | N/A                       | 80%                      | 35%                     |
| SG&A  | 3.8                        | 4.1                         | 1.4                      | 1.7             | 1.7                      | 8.9                          | 11.0                      | 16.0                      | 20.0                     | 35.0                      | 50.0                     | 60.0                    |
| % of sales                                      | N/A                        | N/A                         | N/A                      | N/A             | N/A                      | N/A                          | N/A                       | N/A                       | N/A                      | N/A                       | 62%                      | 30%                     |
| Milestone payments                              |                            |                             |                          |                 |                          |                              |                           | 8.0                       |                          | 10.0                      | 20.0                     |                         |
| Total Operating expenses                        | 8.6                        | 7.1                         | 4.5                      | 5.9             | 6.2                      | 23.5                         | 30.0                      | 49.0                      | 60.0                     | 100.0                     | 147.2                    | 160.2                   |
| Net Operating Income (Expense)                  | (8.6)                      | (7.1)                       | (4.5)                    | (5.9)           | (6.2)                    | (23.5)                       | (30.0)                    | (49.0)                    | (60.0)                   | (100.0)                   | (65.9)                   | 40.9                    |
| Other Income (Expense)                          |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           |                          |                         |
| Interest income                                 | 0.0                        | 0.0                         | _                        | 0.0             | _                        | 0.0                          | _                         | _                         | _                        | _                         | _                        | _                       |
| Total Other Income (Expense)                    | 0.0                        | 0.0                         | -                        | 0.0             | -                        | 0.0                          | -                         | -                         | -                        | -                         | -                        |                         |
|   |                            |                             |                          |                 |                          |                              |                           |                           |                          |                           |                          |                         |
| Income hefore taxes                             | (8.6)                      | (7.0)                       | (4.5)                    | (5.9)           | (6.2)                    | (23.5)                       | (30.0)                    | (49.0)                    | (60.0)                   | (100.0)                   | (65.9)                   |                         |
| Income before taxes                             | (8.6)                      | (7.0)<br>(0.0)              | (4.5)                    | (5.9)           | (6.2)                    | (23.5)                       | (30.0)                    | (49.0)                    | (60.0)                   | (100.0)                   | (65.9)                   | 40.9                    |
| Income before taxes<br>Taxes<br><i>Tax Rate</i> | (8.6)<br>0.2<br><i>0</i> % | (7.0)<br>(0.0)<br><i>0%</i> | (4.5)<br>-<br><i>0</i> % |                 | (6.2)<br>-<br><i>0</i> % | (23.5)<br>(0.0)<br><i>0%</i> | (30.0)<br>-<br><i>0</i> % | (49.0)<br>-<br><i>0</i> % | (60.0)<br>-<br><i>0%</i> | (100.0)<br>-<br><i>0%</i> | (65.9)<br>-<br><i>0%</i> | 40.9                    |
| Taxes   | 0.2                        | (0.0)                       | -                        | -               | -                        | (0.0)                        | -                         | -                         | -                        | -                         | -                        | 40.9<br>-               |
| Taxes<br>Tax Rate                               | 0.2<br><i>0</i> %          | (0.0)                       | 0%                       | 0%              | -<br>0%                  | (0.0)                        | 0%                        | 0%                        | 0%                       | 0%                        | 0%                       | 40.9<br>-<br><i>0</i> % |
| Taxes<br>Tax Rate                               | 0.2<br><i>0</i> %          | (0.0)                       | 0%                       | 0%              | -<br>0%                  | (0.0)                        | 0%                        | 0%                        | 0%                       | 0%                        | 0%                       | 40.9<br>-<br><i>0</i> % |
| Taxes Tax Rate  Net Income (Loss)               | 0.2                        | (0.0)<br>0%<br>(7.0)        | 0%                       | 0%              | 0%                       | (0.0)<br>0%<br>(23.5)        | 0%                        | 0%                        | 0%                       | 0%                        | 0%                       | 40.9<br>-<br>0%<br>40.9 |
| Taxes Tax Rate  Net Income (Loss)  Basic EPS    | 0.2<br>0%<br>(8.8)         | (0.0)<br>0%<br>(7.0)        | (4.5)<br>(0.33)          | (5.9)<br>(0.31) | (6.2)<br>(0.31)          | (0.0)<br>0%<br>(23.5)        | 0%<br>(30.0)              | 0%<br>(49.0)<br>(2.00)    | (60.0)<br>(2.45)         | 0%<br>(100.0)             | 0%<br>(65.9)             | 40.9<br>-<br>0%<br>40.9 |

Source: Jefferies estimates, company data

| ATRA             |
|------------------|
| Company Update   |
| December 8, 2014 |

#### **Company Description**

Atara Biotherapeutics, Inc. is a clinical stage biopharmaceutical company focused on developing novel therapeutics for serious unmet medical needs, with an initial focus on muscle wasting conditions and oncology. Its product candidates are biologics targeting myostatin and activin, members of the transforming growth factor-beta, protein superfamily, which play roles in the growth and maintenance of muscle and many other body tissues. The company's product candidate includes PINTA 745, STM 434 and ATA 842. Atara Biotherapeutics was founded by Isaac E. Ciechanover on August 22, 2012 and is headquartered in Brisbane, CA.

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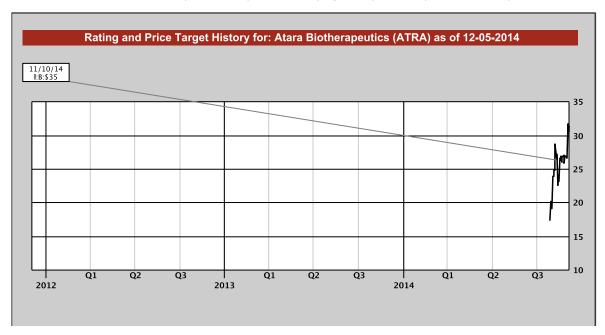
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| ATRA             |
|------------------|
| Company Update   |
| December 8, 2014 |

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|              |       |         | IB Serv./Past 12 Mos. |         |  |
|--------------|-------|---------|-----------------------|---------|--|
| Rating       | Count | Percent | Count                 | Percent |  |
| BUY          | 1040  | 52.21%  | 275                   | 26.44%  |  |
| HOLD         | 806   | 40.46%  | 142                   | 17.62%  |  |
| UNDERPERFORM | 146   | 7.33%   | 5                     | 3.42%   |  |

| ATRA             |  |
|------------------|--|
| Company Update   |  |
| December 8, 2014 |  |

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# ATRA Company Update December 8, 2014

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