

CUV's statistically significant EPP results

First Look

Breaking news, market events and company announcements

Clinuvel demonstrates positive treatment effect of afamelanotide in US Phase II study

Analyses from US confirmatory study demonstrated a dramatic improvement in Quality of Life from afamelanotide 16mg in the orphan disease erythropoietic protoporphyria (EPP). The primary objective of evaluating afamelanotide in EPP patients was to determine whether the prophylactic effect has clinical benefit. EPP patients who received afamelanotide (active drug) were able to spend more time in direct sunlight between 10am and 3pm and 10am and 8pm ($p=0.036$, $p=0.025$). Photoprovocation on the back and hand in a subset of patients showed a significant treatment effect up to Day 60 ($p=0.019$ to $p=0.045$, depending on the study day and body site tested). Afamelanotide significantly improved patients' Quality of Life (QoL) as measured by an EPP-specific QoL questionnaire at Day 180 ($p<0.001$) and at Days 60 and 120 ($p=0.001$ and $p=0.003$).

Background

EPP is a rare and severe genetic disorder causing absolute UV and light intolerance in the skin. It occurs as a result of an enzyme deficiency that allows for an abnormal build-up of protoporphyrin, a molecule toxic to the body that transforms into excited states on absorption of light energy, causing photo-oxidative damage to the skin. This is manifested through various symptoms such as tingling, stinging, or burning and may accompany the appearance of a rash or blisters.

With no real treatment options for EPP sufferers beyond limiting light exposure, Clinuvel's afamelanotide therapy may prove efficacious. The disease is rare, affecting around one in 60,000-200,000 people worldwide, according to PubMed, although accurate statistics are hard to find. We estimate there are between 7,000 and 14,000 EPP sufferers across the US and Europe. Afamelanotide appears to be one of the few viable treatment options for EPP.

Clinuvel is currently finalising a Marketing Authorisation Application (MAA) for afamelanotide for submission to the European Medicines Agency (EMA) before the end of 2011. Approval would allow CUV to market afamelanotide in all 27 European Union member states as well as Norway, Iceland and Lichtenstein.

What does it mean for CUV?

These statistically significant results should be positive for CUV's Marketing Authorisation Application in the EU. We continue to believe afamelanotide is a potentially valuable treatment for sun and pigment-related disorders. This news is in line with our forecasts; hence we make no change to our valuation.

CUV is already being reimbursed for its product for EPP in select EU countries, and hence the business model has already been substantially de-risked, in our view. Our risk-weighted valuation for the near-term

November 3, 2011

Rating Remains	Buy
Target price Remains	AUD 3.56
Closing price November 3, 2011	AUD 1.50

Research analysts

Australia Health Care & Pharmaceuticals

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See Appendix A-1 for analyst certification, important disclosures and the status of non-US analysts.

opportunities in the CUV pipeline is shown below. We use our risk-weighted valuation of the CUV pipeline as our target price.

Fig. 1: CUV – risk weighted valuation of opportunities

Valuation of CUV R&D portfolio	Risk-weighted valuation (A\$ps)	Risk-weighting (in line with Clinical trial stage) (%)	Total opportunity (A\$ps)
EPP	\$1.91	90%	\$2.12
Non-segmental Vitiligo	\$1.65	21.4%	\$7.73
Valuation	\$3.56		\$9.85

Source: Nomura estimates, Tufts data

In addition, CUV are developing a treatment for Non-segmental Vitiligo (NSV). NSV is a de-pigmenting disease that affects c10mn persons in the US and EU. We believe treatment of NSV with CUV's afamelanotide could provide an elegant solution to what is a disfiguring disease with a large unmet clinical need. CUV's afamelanotide is being evaluated as a combination therapy with narrowband UVB (NB-UVB) light therapy in two clinical studies in patients with NSV. We have performed a scenario analysis of the potential NSV opportunity. Starting from potential approval in 2016F, we believe that if an eventual maximum of 10% of US and EU patients were to use afamelanotide, the total CUV NSV opportunity is worth A\$7.73/share. At the current clinical stage, this translates to a risk-weighted NPV of A\$1.65/share from NSV.

Appendix A-1

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Mentioned companies

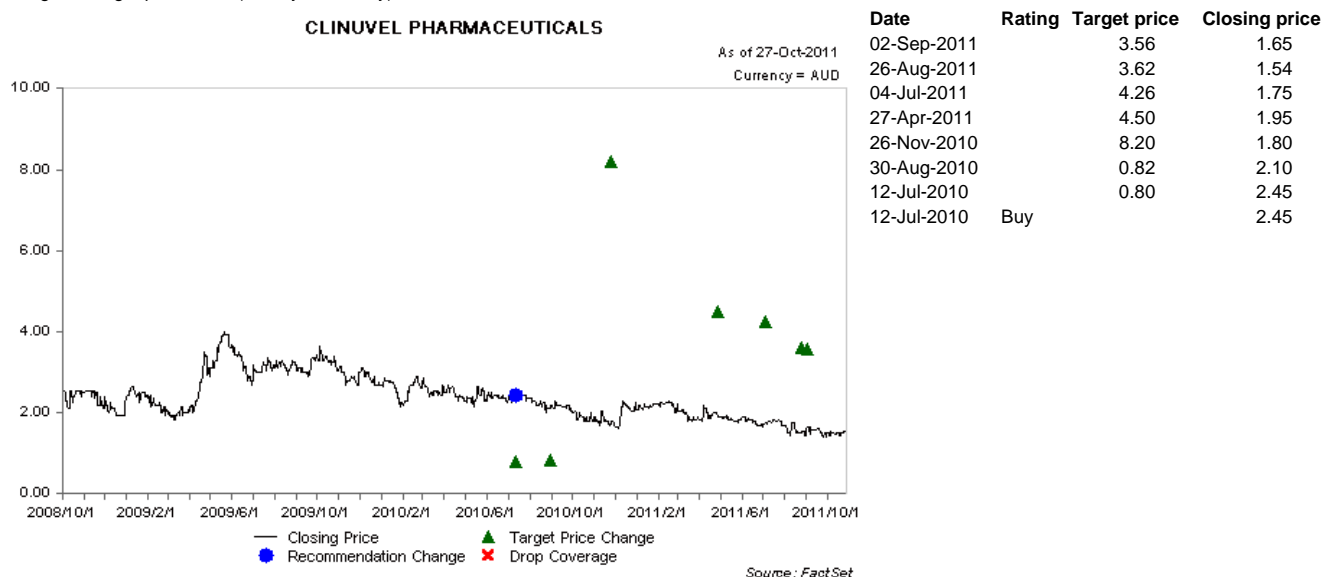
Issuer name	Ticker	Price	Price date	Stock rating	Sector rating	Disclosures
Clinuvel Pharmaceuticals	CUV AU	AUD 1.50	03-11-2011	Buy	Not rated	

Previous Rating

Issuer name	Previous Rating	Date of change
Clinuvel Pharmaceuticals	Not Rated	12-7-2010

Clinuvel Pharmaceuticals (CUV AU) AUD 1.50 (03-11-2011) Buy (Sector rating: Not rated)

Rating and target price chart (three year history)



For explanation of ratings refer to the stock rating keys located after chart(s)

Valuation Methodology Our risk-weighted valuation for EPP, CUV's other near-term opportunity, is A\$1.91/share. Starting from potential approval in 2016, We believe that if an eventual maximum of 10% of US and EU patients were to use afamelanotide, the risk-weighted NPV for the NSV opportunity for CUV is A\$1.65/share. Given the above analysis, we adopt our risk-weighted valuation of the CUV pipeline (A\$3.56) as our TP.

Risks that may impede the achievement of the target price We believe that any delay or failure to progress in clinical trials would present downside risk to our target price. That said, faster-than-expected progression to production of CUV's photoprotective technology could provide an upside boost.

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Explanation of Nomura's equity research rating system for Asian companies under coverage ex Japan published from 30 October 2008 and in Japan from 6 January 2009

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Explanation of Nomura's equity research rating system in Japan published prior to 6 January 2009 STOCKS

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