Vertex Pharmaceuticals: R&D Portfolio Management

Which two projects would you approve for advancement in development? Why?

remaining development costs and low annul expense. Phase II despite the probability of success was 40% only, also, the success rate for phase III was relatively high. In one word, it was a safe choice with pretty high (90%) profit margin, low I would choose VX148 and VX950. Apart from the pros listed below, VX 148 nearly finished

help Vertex make a difference with other companies. low (82%). Second, the development of VX-950 was considered as strategic purpose as it could remaining development cost was lower than remaining two projects and project margin was not VX-950 is the second best option that can be approved from the remaining three. First, the

Candidat Stage	
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VX148 Nearly end c	Nearly end of Phase II in Oct. 2003
VX702 Phase IIa	
VX765 Preclinical study	udy
VX950 Preclinical s	Preclinical study, will begin Phase I in early 2004

VX950		VX702 VX765	Candidate VX148
Large unmet medical needs. Leverage existing relationship to sale product. Help Vertex make a difference with other companies. Could sell drug to doctors using a specialty sales force. Has novel targets.	potential. Has the largest possible financial return. No other candidate on the market now. Has novel targets.	The drug was proved well tolerated in patients. Cheap and easy to make. Has lots of promise if oral drug could be covered. Could be taken orally and has excellent market	Pros Except for psoriasis, it has the potential to treat a number of diseases. Low target risk. Large market with unmet medical needs. Would get Vertex to the market the quickest. Low mechanism risk
Complex and costly to make. May need to find a partner. Takes long to get to market.	and lose rights to sales force. Impact on Aventis partnership. Relatively high manufacturing costs at development stage. Potency was yet to determined and has proper dose problem. With more unknown. May cause land war. Takes long to get to market.	Prone to have toxicity issue. Most other companies failed to develop it. With more unknown. Reduce influence on committees	Cons Least scientific sizzle. The market already existed. Have substitute, average molecule risk. May cause land war.