

An analysis of the clinical development pipeline in the Swedish biotech industry Feb, 2006

Co-sponsors:



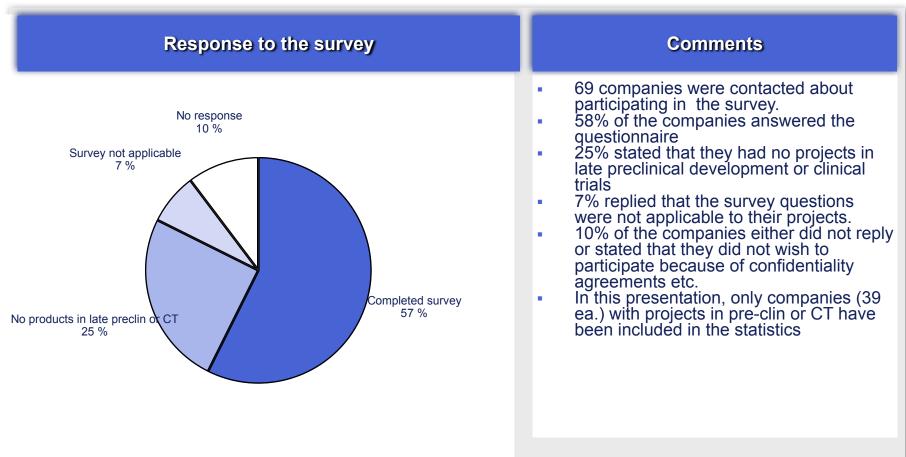


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A Survey of the Swedish Biotech pipeline

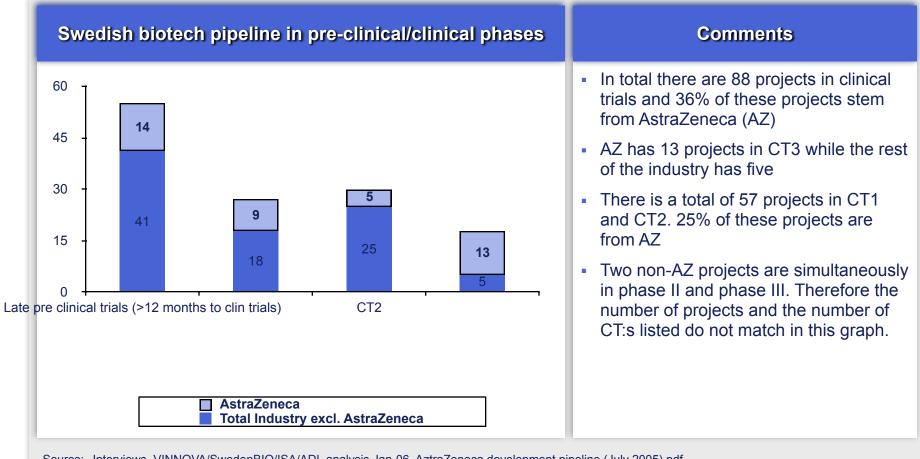
- In December 2005 a survey of the Swedish biotech pipeline was conducted by SwedenBIO in cooperation with Arthur D Little and supported by Invest in Sweden Agency (ISA) and VINNOVA
- Results are impressive: 46 Swedish projects, excluding AstraZeneca, are in clinical trials (phase one, two or three) and 41 CDs are in late pre-clinical trials (less than 12 months from CT)
- SwedenBIO, ISA and VINNOVA will use the results to promote the Swedish biotech industry and to generate business contacts
- SwedenBIO, ISA, VINNOVA and Arthur D Little would like to thank all the participating companies

68 companies were contacted about the survey and 61 responded



Source: Interviews, VINNOVA/SwedenBIO/ISA/ADL analysis Jan-06, AztraZeneca development pipeline (July 2005).pdf
Note: AztraZeneca is not included in this graph. In some cases, survey data has been completed with information from company homepages

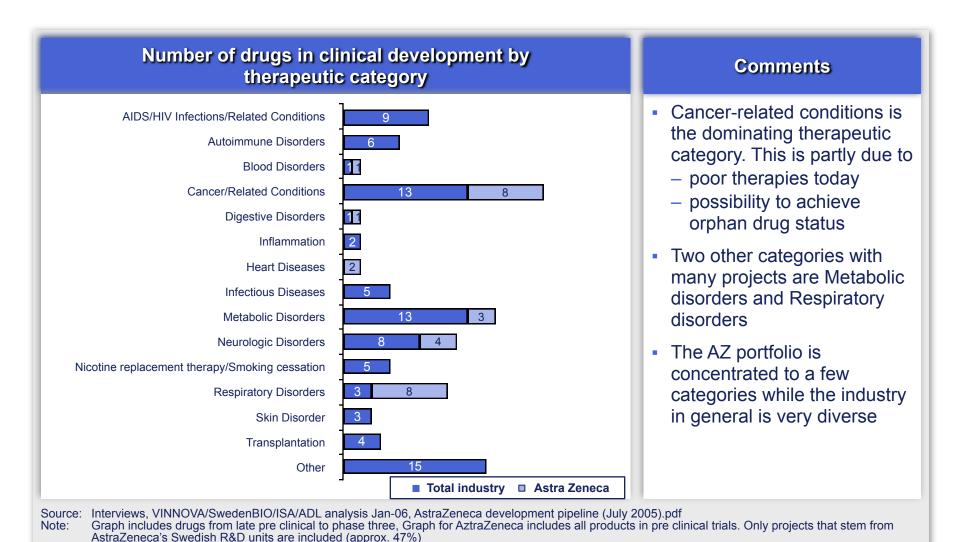
The Swedish biotech pipeline has 128 projects in late pre-clinical or clinical trials. 41 of these projects stem from AstraZeneca



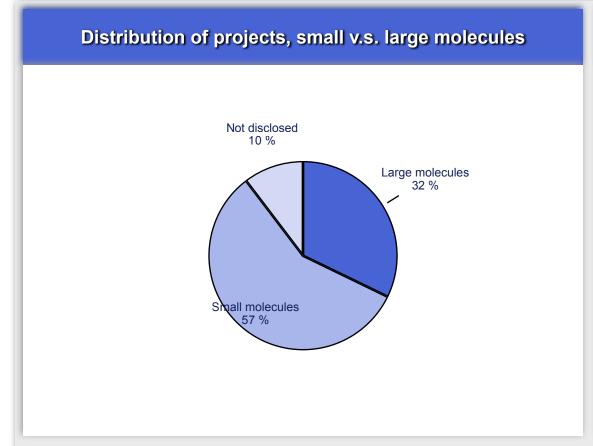
Source: Interviews, VINNOVA/SwedenBIO/ISA/ADL analysis Jan-06, AztraZeneca development pipeline (July 2005).pdf

Note: Only projects that stem from AstraZeneca's Swedish R&D units are included (approx. 47% of all products according to AZ). Numbers for AstraZeneca include all products in pre clinical trials not only the products in late pre clinical trials.

The dominating therapeutic category is cancer-related conditions



The majority of projects in development by Swedish biotech companies are small molecules



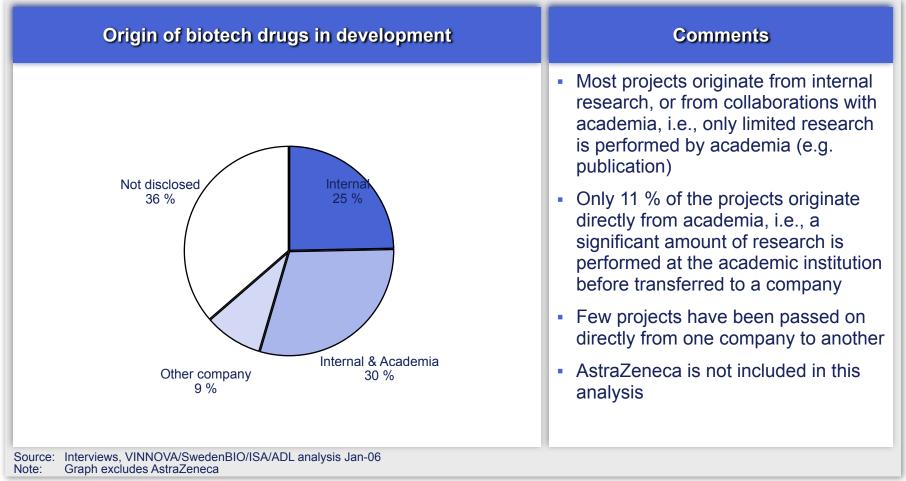
Comments

- The focus is on small molecules, due to strong research traditions from former Astra and Pharmacia
- Small molecules are defined as molecules that can be chemically synthesized
- Large molecules are defined as molecules that are developed and produced using biological systems
- AstraZeneca is not included in this analysis

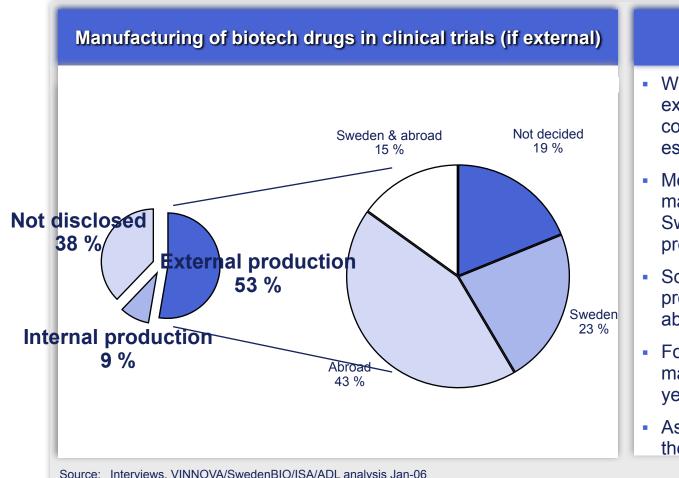
Source: Interviews, VINNOVA/SwedenBIO/ISA/ADL analysis Jan-06

Note: Graph includes drugs from late pre clinical to phase three, Graph excludes AstraZeneca

The majority of projects originate from internal research in collaboration with academia



The majority of the external production for clinical trials has been established abroad



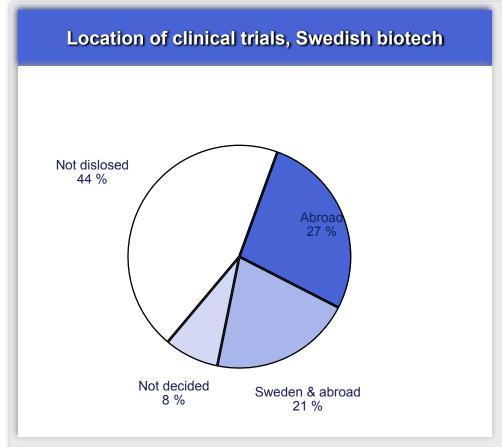
Comments

- When the manufacturing is external, almost 60% of the companies have chosen to establish production abroad
- Most projects with external manufacturing located in Sweden are early projects (latepre clinical and CT1)
- Some companies have production both in Sweden and abroad
- For some early projects, the manufacturing issues have not vet been decided
- AstraZeneca is not included in the analysis

Source: Interviews, VINNOVA/SwedenBIO/ISA/ADL analysis Jan-06

Graph includes drugs from late pre clinical to phase three, graph excludes AstraZeneca

Over 40% of clinical trials are to some extent performed in Sweden



Comments

- Most companies perform at least some clinical trials in Sweden (43%)
- 19% of the clinical trials are completely located abroad
- One of the key rationales for performing clinical trials abroad is to always use key opinion leaders as trial leaders in the therapy area of interest
- Multi-center trials are often performe both in Sweden and abroad, sometimes in the Nordic region
- AstraZeneca is not included in the analysis

Source: Interviews, VINNOVA/SwedenBIO/ISA/ADL analysis Jan-06

Note: Graph includes drugs from late pre clinical to phase three, graph excludes AstraZeneca

AstraZeneca has approximately 40 projects in clinical trials which is about 30% of the identified Swedish biotech pipeline

