A NEW DRUG: HOW MUCH AND HOW LONG?

A BRIGHT IDEA

DISCOVERY

£430m

5-10,000 potential drugs

4½ years

TESTING & IMPROVING

£100m

Thousands of potential molecules are whittled down to the most promising 10 - 20 drugs, or ‘leads’

1 year

CLINICAL TRIALS

£180m

After thorough testing in the lab, 5 - 10 drugs are taken forward into first-in-human clinical trials

PHASE 1

for 5-10 trials

10s of participants

1½ years

CLINICAL TRIALS

£210m

2 - 5 drugs show promise in patients and are taken forward into larger trials

PHASE 2

for 2-5 trials

10s -100s of participants

1½ years

CLINICAL TRIALS

£180m

1 or 2 drugs work well enough to go into late-stage clinical trials

PHASE 3

for 1-2 trials

100s -1000s of participants

2½ years

DRUG APPROVAL

£50m

1 drug is proven to work better than current treatment

1½ years

DRUG APPROVED FOR PATIENTS

Data from patients

AROUND £1,150M AND 12½ YEARS

Read more at: http://bit.ly/cruk-pharma

Figures based on data from ABPI, for the top 12 pharmaceutical companies. Development costs and times vary between R&D departments and diseases. Costs and times are based on averages.