

Fisher's exact test

InStat example:



Corresponding MATLAB:

```
%% Fisher's exact test
Ns1 = 10; % status 1 (e.g. control)
Ns2 = 10; % status 2 (e.g. stimulation)
status1_prop = 8/2; % proportion outcome 1 / outcome 2, binomial
proportion
status2_prop = 1/9; % proportion outcome 1 / outcome 2, binomial
proportion
y1 = zeros(1,Ns1);
y2 = ones(1,Ns2); % let's assign outcome 2 as "success" (arbitrary)

x1 = [zeros(1,round( status1_prop*Ns1 / (1 + status1_prop) )) ones(
1,round( Ns1 - status1_prop*Ns1 / (1 + status1_prop) ))]; % status 1
outcome
x2 = [zeros(1,round( status2_prop*Ns2 / (1 + status2_prop) )) ones(
1,round( Ns2 - status2_prop*Ns2 / (1 + status2_prop) ))]; % status 2
outcome

p = fexact( [x1 x2]', [y1 y2]' )
```

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