identify people with disease Type of Sampling and without first My chelinition). relationspirament > Nestud conse-outpl the disease its Cose-Control Study present meach Some 62 bulation Source Population sevent outro) when each case occurs Phy O underlying cohord (source Q jess mistabeling of E Regression to the mean Onse serection white selection > Cons: bloc.

Volest Mill 2 drough	111 1 111 0	y so we some o	IN 43 M WIL
tall phort?	ing from the colum	,	
M. alar and la	r Loss-to-Follow-	1D 0. 1 9/0/2	
Kennembe	L Doss - 12 - lottom -	of and or.	
Olanica tv	pe of attrition =	> type of samplin	5
•		7/ (8-1)	
Tunderying col		Unerpose	4
11		.//	
Diseased	Non-dispased	Discossed	Non-diseased
(A 2	(3)	(0)	
OL-			/ 1
case control	tudy.	1	
Cases		[Conto(s)	
4.a	Uheaposed	exposes R.b	Unexposes
	1		
	J. J	wre. End of study	Occorto varaget
	•	•	
Conort	ER = BC. Case	-Cantrol OR - Cohor	LON C.
		1 601	
			everon boarde
		Neveds Lanaued	odds
		Neveds Baramed	odds
	16 21 0	Nereds Baramed	0 dds
	d=10	Needs Faramed	0 dds
	d=10	RT #	odds B<1. or I.
	d = 1 0	k T Should seleve	b<1. or]. where is exposure.
	d =1 0	k T Should seleve	

Source population Clear?
(cases)
There's the source for hospital? -referents -locans -locans
select Controls from that source Friend outsols Cruide. Same source pop: Covermated, SES). Same inclusion/exclusion for case/ Wintrol) Same method for expossive assessment.
Mat happens if there is significant consoring in the underlying cohort?
Case_Base sampling. irvidence-Density kisk Ratio Sampling
Traditional: (Regardless of rare) = a = PT. Cumulative disease assumption (Regardless of rare Theidence (Regardless of rare)
$OR = \frac{a}{b} \frac{d}{c}$
Main source of invalidy: - Courtion: Any Ricis in the underlying cohort will reflect In the case—control study Recently bias. - pearente wormy source pop - create non-comparability in source. I recording bias
- pearente wormy source top Record bies.
- create non compared; L'ty in source. I recording bias
- toxposure Assertainment (differential Misclesifine)
- Revere Constition - Chses: Surveillance Brias. Pragnostic Brias. Provalence Bias. Prevalence cases are survivors ride factor may be related to survival not
Prevalence cases are survivors ride factor may be related to survival not

A Good Case-control study repends on severting controls from the right source population independent of exposure and with measurement of the exposure that is the same for cases and controls. Controls should be seccoted from the same population - the source population - that gives rise to the study case. laposure distribution in Controls should be representative of the exposure distribution in source population. the frequency of exposure in conto)

anough with be representative of

the frequency in the base population