

Consideration with peak area

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Represents perfect balance which is rare



- More likely to be major/minor
- Visually we can separate potential contributors
- If this is reasonable then we can feed this into the calculation of the LR

If we can justify pairing alleles



Individual 1	Individual 2	products
ab	cd	4abcd
ac	bd	4abcd
ad	bc	4abcd
cd	ab	4abcd
bd	âC	4abcd
bc	ad	4abcd
	Sum of products	8abcd



8abcd is smaller than *24abcd* under *Hd* i.e.the defence scenario is less probable

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Advantage of using peak area



Considering peak areas increases the LR
BUT only if peak area is consistent under *Hp*.



If the suspect is *ac*, then Hp may not be reasonable

Clearly some guidelines are needed if the peak area approach is to be used.