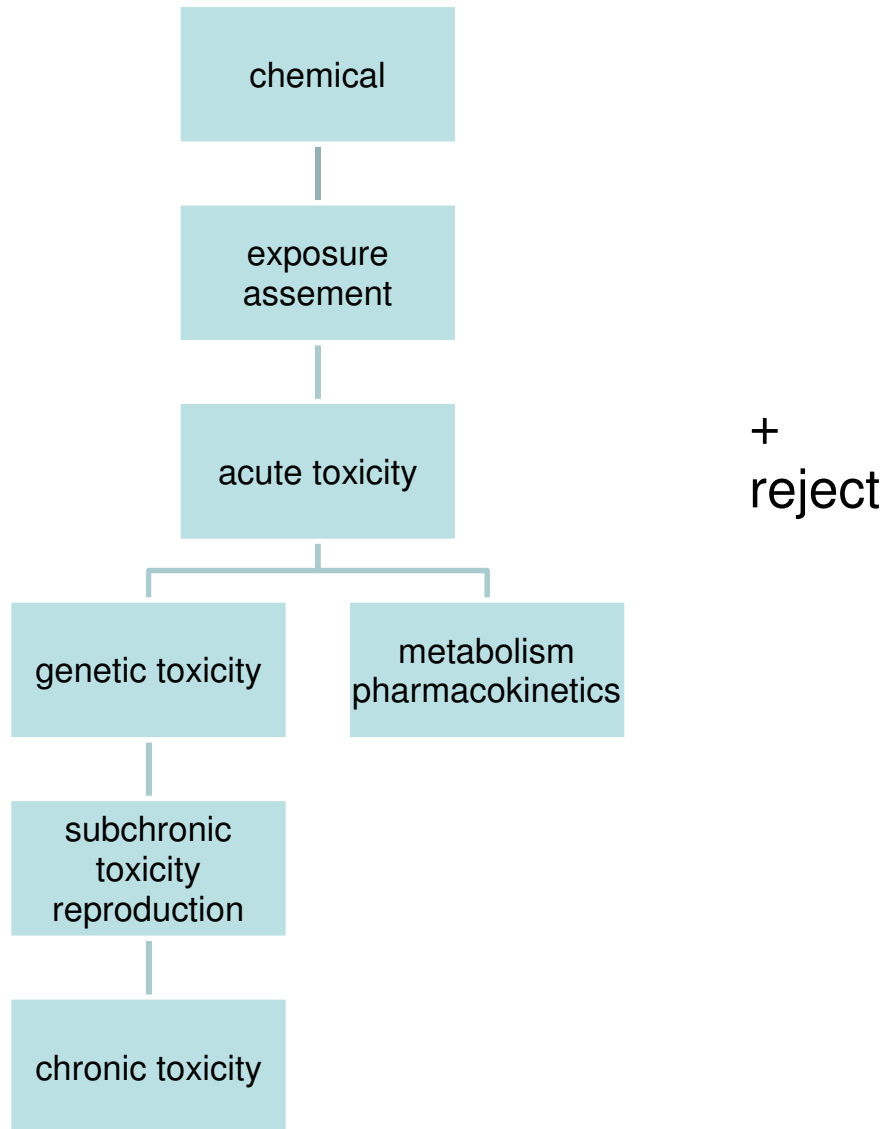


MRL og Tilbageholdelsestid

Safety decision tree



Grænseværdier

NOAEL (no adverse effect level)

ADI (acceptable daily intake) [NOAEL/Safety Factor]

MRL (maximum residue limit)

RfD (reference dose) [NOAEL/Safety Factor]

MOE (margin of exposure) [exposure/NOAEL]

ADI = NOEL / safety factor

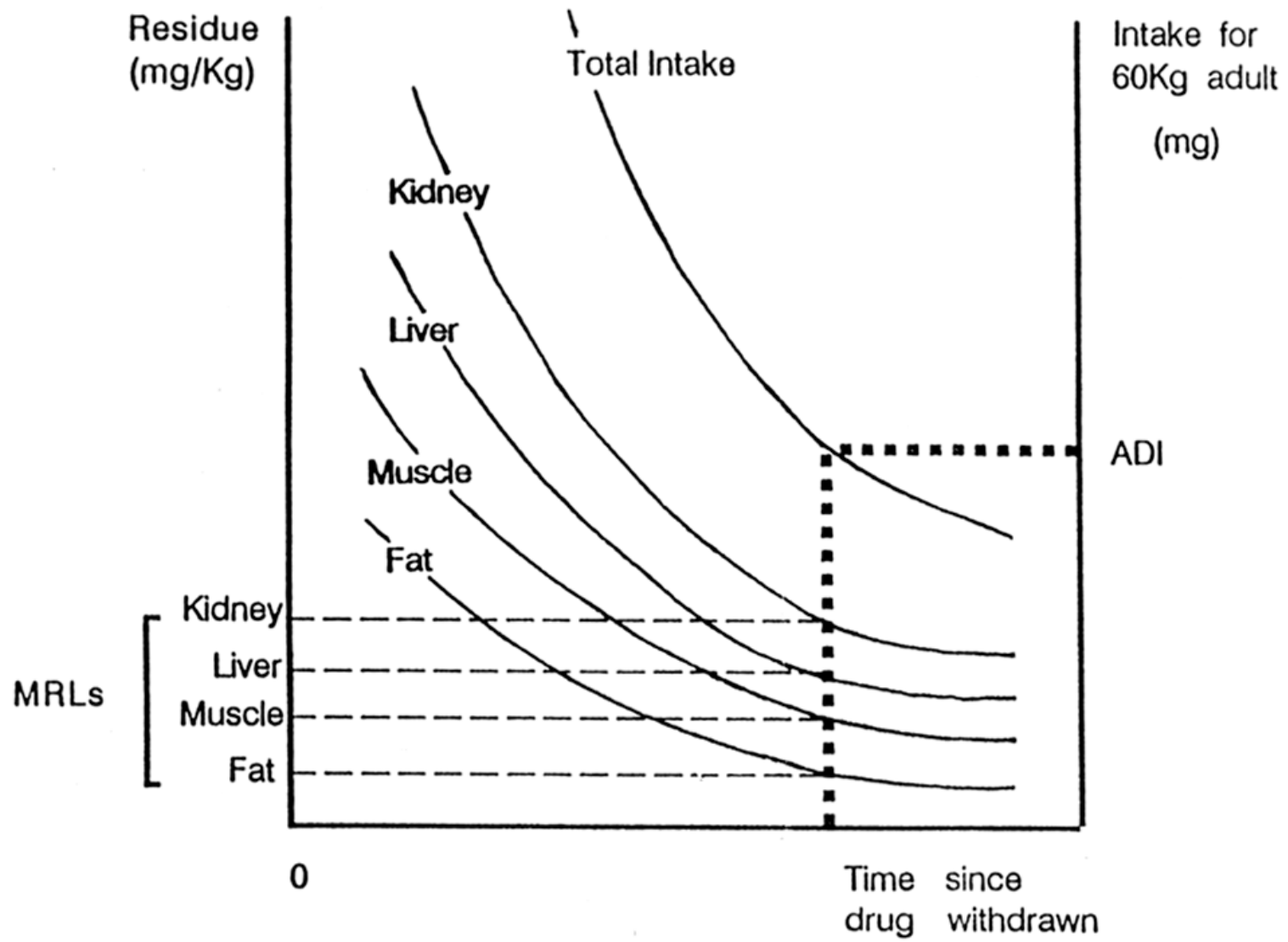
SF: 10 - 1000, normalt 100

10 individuel variation

10 extrapolation from animals to humans

MRL - Target tissues

- Liver
- Kidney
- Muscle
- Fat
- (Inj. Site)



EU “Madpakken”

MRL * fødeindtag \leq ADI * legemsvægt

	Pattedyr	Fjerkræ	Bier
Kød	300 g	300 g	
Lever	100 g	100 g	
Fedt	50 g	10 g	
Nyre	50 g		
Æg		100 g	
Mælk	1,5 L		
Honning			20 g

Residue intake

$$RI = (C_L \cdot F_L / R_L) + (C_K \cdot F_K / R_K) + (C_F \cdot F_F / R_F) + (C_M \cdot F_M / R_M)$$

RI= residue intake (μg)

C= concentration of marker residue ($\mu\text{g}/\text{kg}$)

F=food consumption figures (0.3g muscle; 0.1g liver; 0.05g kidney; 0.5g fat)

R=ratio marker residue vs. total residue

Liver

