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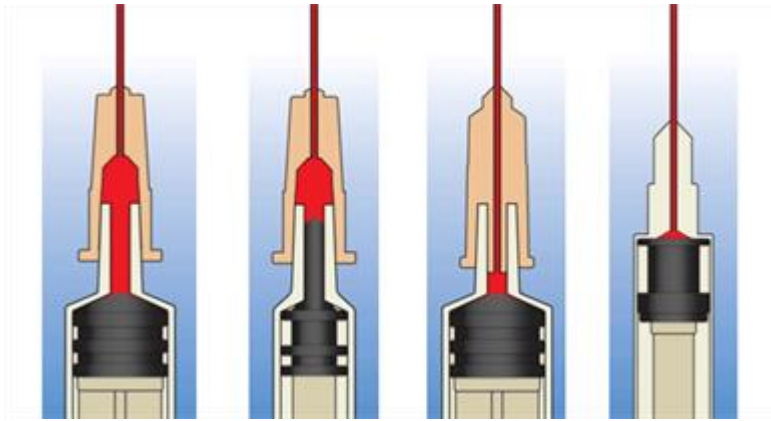


Figure 1. Illustrations of dead space in common needle and syringe designs (artwork licensed by Creative Commons) Reproduced with permission from William Zule. From left to right: Standard detachable needle on standard syringe, Standard detachable needle on low dead space syringe, Low dead space detachable needle on standard syringe, Low dead space syringe with fixed needle