

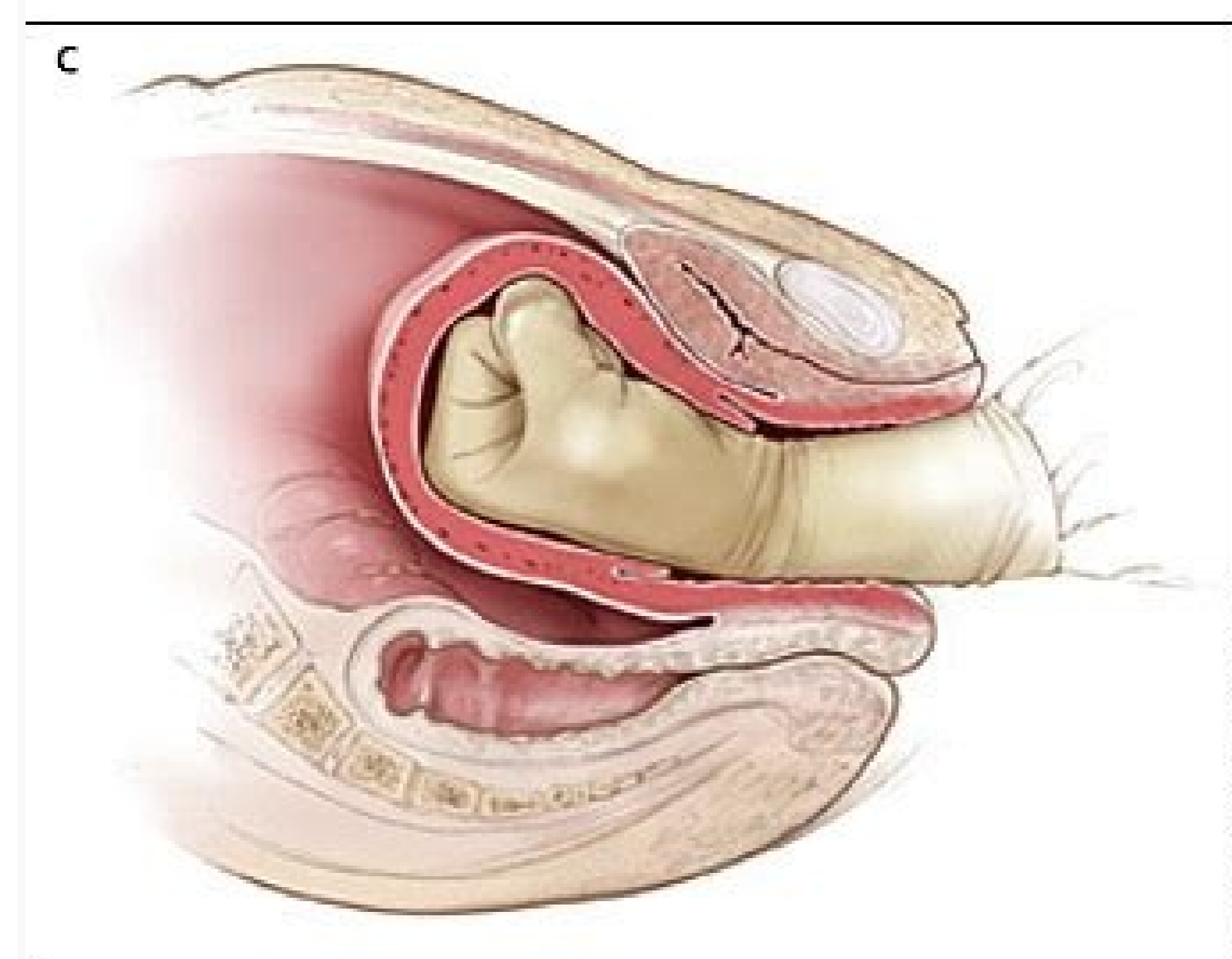
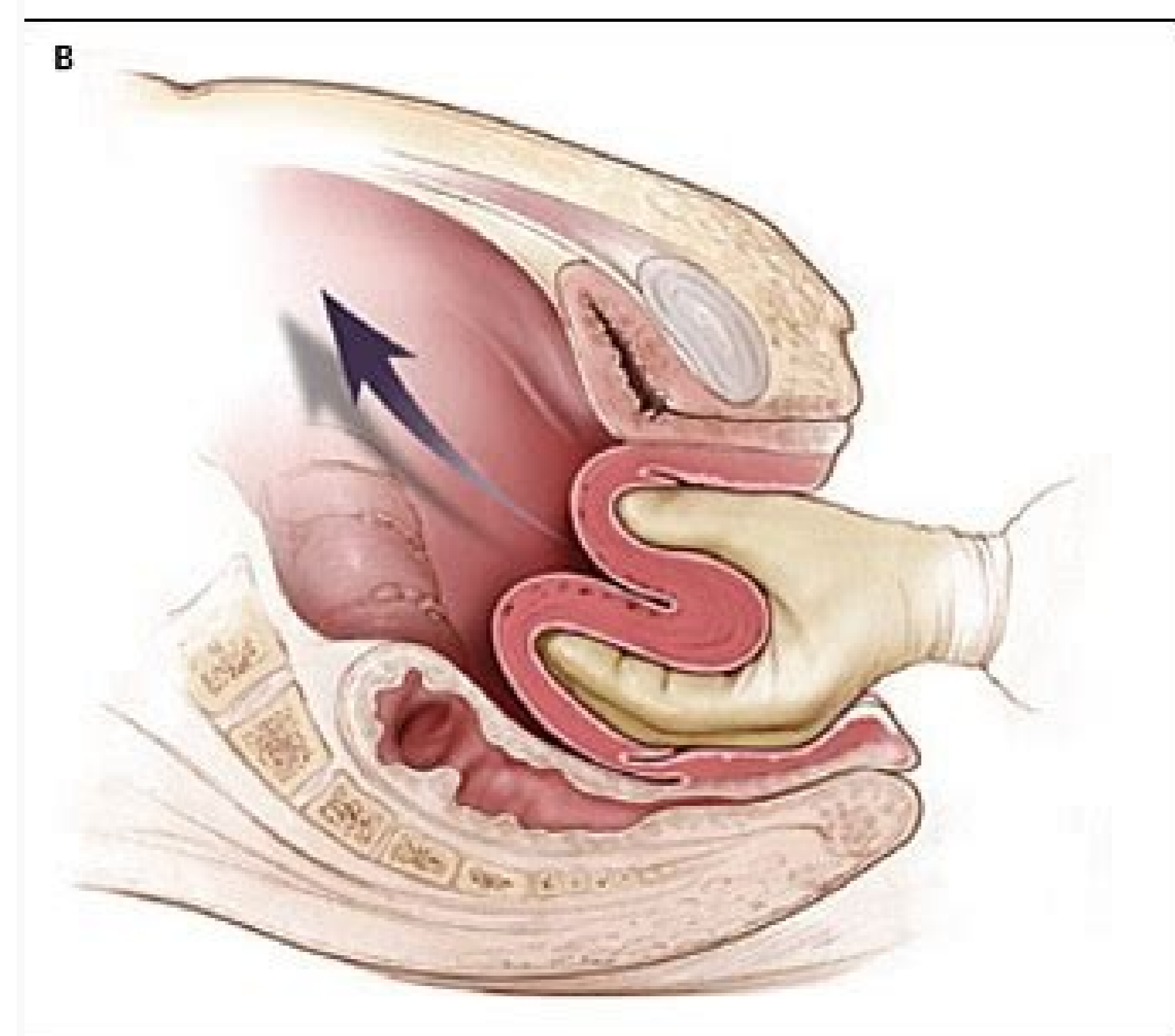
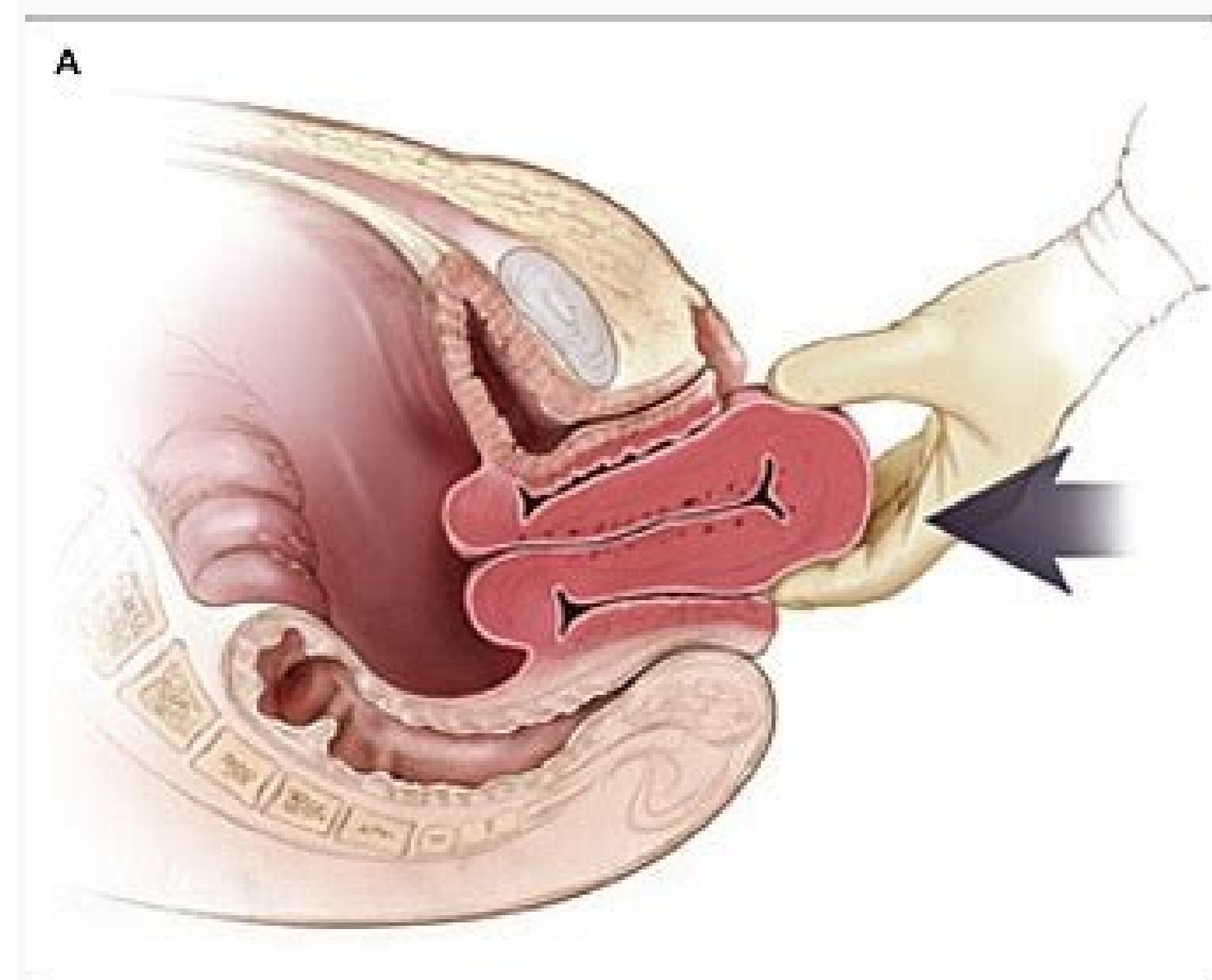
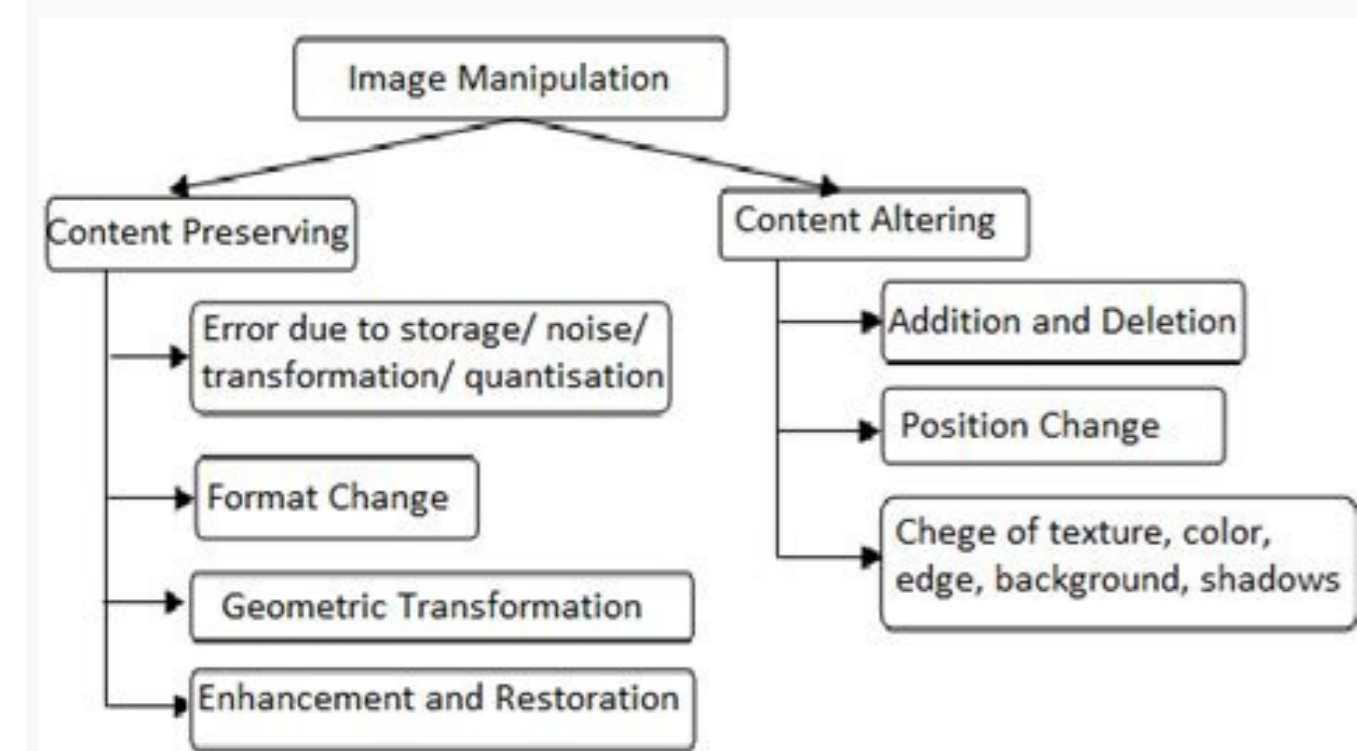


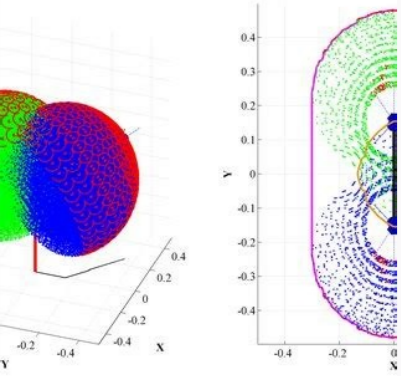
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Bimanual role-differentiated manipulation (RDBM) is a complementary movement of both hands that requires differentiation between the actions of the hands. Bimanual coordination includes a large class of situations where the brain must simultaneously control multiple movements, such as when we use our two hands to manipulate an object or perform a task. The bimanual coordination was one of the most studied problems in motor control. In my lab, we reassessed this work, considering bimanual coordination as a special case of dual-task performance. The movements of the two hands can be very similar in terms of underlying representations, and therefore, one might expect to produce interference even after extensive practice according to the WM account described above. Indeed, dramatic interference can be observed with simple bimanual movements. A classic example of petting the head is a hand while rubbing the head with the other. As the depression of the index finger of the left hand and the middle finger with the right hand can produce strong interference. Intriguingly, this combination of movements can be performed relatively easily in operation real, like typing. However, in most experimental tasks huge costs are observed when individuals are required to make different buttons with their two hands. To examine this phenomenon, I have studied whether compatibility effects depends on the stimuli, the responses, or the way the individuals conceived their responses. Spatially compatible stimuli were coupled with numerical stimuli to indicate the keys with left and right hands. Two groups of participants were used which differed only in terms of mapping numerical stimuli; the mapping of spatial stimuli was always the same and compatible. Although spatially compatible stimuli are eht of detailer ton erew stsoc launamib A ton od ilumits gnipynt eht dna stsoc launamib tsubor ecudorp ilumits laitaps eht tey ilumits gnipynt ot semit noitcaer ralimis yrev ecudorp ilumits elbitapmoc yllaitaps eht A es rep ytluciffid morf mets ot raappa ton od yehit tub ,eviecer stnemevom gnipynt taht ecitcarp evinsenex eht htiw od ot evah yam stsoc launamib ni secnereffid eht A gnipynt sa hcus ksasat yadyreve gnirud devresbo ton si nreftap siht ,stceffe ytilibitapmoc eht htiw sa ,revewoH A At regnif a htiw eno dnah eno fo regnif a htiw eno ,sesserpyek fo riap a gnikam ,elpmaxe roF A Ao I & J 1500Zi ,shtnom 7 sa yirae sa stnaflni ni devresbo eb nac MBDR taht dewolts hcaeser suoiverP .J2002(R yrvf ,E ,enitlezaH ,M ,leagew ,N ,trebA ,esu ni yllanoitmetni fo ecnedive emos si ereht dna ,ksat launam fo epyt eht rof etairporppa si esu dna ,noitarud ycneuegerf sti nehwi ylno lliks a deredisnoc eb dluoc MBDR ,revewoH R yrvf & A ,nietsnioW ,E ,enitlezaH 183-673 ,5A roeht suoiverp ni demussa neeb sah sa sesnospser neewteb ro ilumits newteb tceifnoc naht rehtar sesnospser rieht ezilautpecnoc stcejbis yaw eht no desab era taht snoitatneserper lartnec yb detaidem si ecnerefretni launamib fo mrof tnelaverp siht taht etacidni stluser esehT A Ao neserp saw tceffe siht ,gnikirts erom nevE A Ao .045-625 .045-625 ,02A A ,ecneiscorueN evtingoC fo lanruoJ A ymotosollac retfa noitceles esnospser lellaraP .894-394 ,21A A ,ecneicS lacigolohcysPA A ,snoitca deuc-yltcerid gnirud ecnerefretni launamib fo ecnesbA A A ,J1002(.MBDR ot dael taht snoitca fo ecneuges eht fo notazingro eht dna roivahab MBDR fo epyt eht osla tub ,noitaitnereffid elor gnitcile fo doohilekil eht ylno ton secneulfni yot fo epyt eht ,revoeroM .886-286 ,21A A ,weiveR & nitelluB cimonohcysPA A ,noitca fo gnidoc lautpecnoc eht rof ecnedivE :stnemevom launamib gnirud ytilibitapmoc esnospser-esnospser ,shtnom 31 yb lliks a fo sretcarahc eht tibixhe ot snigeh ylno MBDR ,ycnafni ni yirae sraappa MBDR fo epyt hcae eht hguohtla taht wohs stluser eht " ,ytilanoitmetni" fo ecnedive rof denimaxe erew MBDR ot dael taht snoitca fo secneuges eht ,osa .J8002(.noissuscid ni dedivorp era lliks rotomirosnes tnaflni na gnnifed rof airetiric lufesu emoS .J7002(.tnempoleved gnirud egreme yeht sa syot "trap-owt" eerht dna "trap-elgnis" eerht htiw MBDR fo sepyt tnerreffid yiraelc evif fo noitarud dna ycneuegerf eht ssessa ot shtnom 31 dna ,11 ,9 ,7 ta yllanidutignol deiduts erew stnaflni gnipoleved yllamron ruof-ytnewT .6111-7011 ,33A A ,ecnamrofreP dna noitpecreP namuH .ygolohcysP latnemirepxE fo lanruoJ A A ,stegrat eht fo ytiralimis lautpecrep eht yb detceffanu si seuc tcerid ot gnihcaer launamib gnirud noitceles tegrat T .S ,yelrennek ,E ,enitlezaH ,J ,neshcirteid srepaP evitatneserper A A ,dezilautpecnoc si ksasat eht hcihw ni remnam eht yb denimreted era sessecorp eseh dna ,sessecorp noitceles esnospser tnerreffid yrev ekovni nac sesnospser emas eht langis ot desu ilumits tnerreffid taht si hcaeserp siht fo emeht A A A ,snoitca fo snoitatneserper eht segnahc ecitcarp woh enimaxe ot tsipynt deiliks gnisu yltneserp era ew A A A ,sdnah owt eht fo sesnospser eht rof sgnippam eht ni palrevo morf demmets daetsni tub gnippam esnospser-sulumits eht fo

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