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**LabChemistry\_IS2\_20160413\_Camera1\_Seg07.pdf**

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**Participants:** IS2 (male TA, walking around, black hair and glasses under goggle), S1 (female voice, not visible), S2 (female voice, not visible), S3 (female voice, not visible), S4 (male voice, not visible), S5 (female UGTA, black clothes with chevron pattern), S6 (male student, black hair), S7 (female student, long dark brown hair), S8 (female voice, visible), S9 (female voice, not visible), S10 (male UGTA, visible), S11 (male voice, not visible)

**Context:** IS2 walking around assisting students during a chemistry lab session

**0:00**

xxx IS2: uh  
xxx why-why-why don't you choose the (.) drug-drug quality?  
xxx S1: ((bemused)) (drug quality?)  
xxx IS2: yeah  
xxx S1: (it's not-)  
xxx (it's not really like) ((inaudible))=  
xxx IS2: =yeah I mean food and drug  
xxx you know  
xxx the-the same thing.  
xxx S1: ((inaudible))  
xxx IS2: (no) (.) both of them (need) quality control. (.)  
xxx right?  
xxx and uh- inside the-  
xxx **the: drug has higher (.) quality↓ (.) control than food.**  
xxx S1: ((inaudible))  
xxx IS2: ah chemistry!  
xxx okay.  
xxx S1: ((inaudible))  
xxx IS2: I think- I think probably you need-  
xxx uh:  
xxx did you take some  
xxx you know (.)  
xxx medical courses,  
xxx like physiology or something?  
xxx I think it is related (.) if you want to (get)-  
xxx S1: ((inaudible))  
xxx IS2: are you-are you senior or?  
xxx S1: I'm a sophomore.  
xxx IS2: oh sophomore.  
xxx S1: [yeah.  
xxx IS2: [oh you still have lot of time to=-  
xxx S1: =yeah yeah yeah.=  
xxx IS2: to learn.  
xxx S1: ((laughs))  
xxx IS2: ((laughs))

**0:52**

xxx ((no dialogue))

**1:16**

xxx S2: um

xxx is that (.) clear enough?

xxx or do you have to (.) keep it going.

xxx IS2: (.1) yeah just let it-

xxx you know-

xxx boiling.

xxx S2: ok!

xxx oh boiling.

xxx ok.=

xxx IS2: =yeah.

xxx ((continues walking))

**1:26**

xxx ((no dialogue))

**2:14**

xxx ((leans over student's experiment))

xxx you don't need to scratch (.) slowly.

xxx just (.) [scratch (them)].

xxx S3: [(I wanna) scratch the (.)

xxx [paper.

xxx IS2: [(filter) paper?

xxx oh it's (.) deep inside.

xxx S3: ((inaudible))

xxx IS2: oh!

xxx you got the (scratch) paper.

xxx I mean scratch ((incomprehensible)).

xxx I can see the (starch) paper. (.)

xxx oh sorry.

xxx I can see the (filter) paper. (.3)

xxx yeah.

xxx S3: ((inaudible))

xxx IS2: I think it sh-

xxx if it's dry,

xxx right?

xxx S3: (.) I don't think so.

xxx IS2: it is not dry?

xxx S3: not-

xxx not completely.

xxx IS2: (.2) alright.

COM near dry.

COM S3: hm?

COM IS2: it's near dry.

COM S3: (.) it's-

COM it's what dry?

COM IS2: I mean (.) near to the dry. (.)

xxx S3: [yeah.

xxx IS2: [stage.

**3:00**

xxx ((pause))  
xxx uh:  
xxx you can  
xxx you know (.)  
xxx just (.) use the paper towel to  
xxx you know  
xxx compress them,=  
xxx S3: =right.  
xxx that's what I'm (gonna do).  
xxx IS2: ((pause, continues walking))

**3:22**

xxx S4: excuse me.  
xxx how is that for- (.)  
xxx IS2: ok.=  
xxx S4: =dry?  
xxx IS2: don't let it dry.  
xxx just press them.  
xxx S4: (no)  
xxx that's what they said  
xxx to pr- uh press this  
xxx (is that alright) they say they wanted to check it first.  
xxx S5: ((walks up to S4 and IS2))  
xxx IS2: [ok  
xxx S5: [no you're good yeah.  
xxx ((to IS2 with papers in hand)) this is what I have so far=  
xxx IS2: =all of them?  
xxx S5: yeah. (.)  
xxx IS2: ((looks over papers))  
xxx S5: (it's nine people).  
xxx IS2: (.) ok  
xxx I just (.) send to (the) Doctor Chen?  
xxx S5: (I guess).  
xxx IS2: ok.  
xxx S5: ((incomprehensible))((begins walking away))  
xxx IS2: **thank you**↑  
xxx ((continues walking while reading attendance sheet))  
xxx S5: do you know who graded this?  
xxx IS2: no.  
xxx I don't know.  
xxx S5: because I just found it. (.)  
xxx [((incomprehensible))  
xxx IS2: [I just- I-  
xxx S5: she was absent.  
xxx so- but she still- she doesn't get points off.  
xxx so how do you write that?  
xxx IS2: uh:  
xxx I think probably after we got this  
xxx we just (.) give to the Doctor Chen.=

xxx S5: =ok.=  
xxx IS2: =and then they will give to the: TA.  
xxx S5: ok.=  
xxx IS2: =who- mm.  
xxx S5: (cause we have two people like that.)  
xxx IS2: oh  
xxx two people?  
xxx S5: yeah.  
xxx they weren't here last week.  
xxx IS2: ok.  
xxx ((using phone))  
**4:23**  
xxx ((no dialogue))  
**6:04**  
xxx S6: ((walks up to IS2))  
xxx IS2: ((looks up))  
xxx S6: (um) is that dry enough?  
xxx S7: ((walks up IS2 from behind))  
xxx IS2: ((walks up to S6's sample and examines it))  
xxx (yeah) it's fine. (.)  
xxx just get a: ((incomprehensible)) (.) rbf.=  
xxx S6: =rbf .  
xxx IS2: one hundred mil.  
xxx ((continues walking))  
xxx S7: ((inaudible))  
xxx IS2: ((turns around)) yeah?  
xxx sorry.  
xxx S7: ((inaudible)) everything here,  
xxx IS2: yeah?  
xxx S7: I didn't (.) do the (medium) outside,  
xxx and I think-  
xxx cause I just pour it in here,  
xxx but I feel like I didn't like-  
xxx IS2: uh-uh- save (.) any-  
xxx you wanna save (.) save a little bit?  
xxx S7: (.) no.=  
xxx IS2: =oh sorry.=  
xxx S7: =I mean-  
xxx uh do I need to save a little?  
xxx IS2: no no no  
xxx you don't need to.  
xxx S7: I mean-  
xxx before I put it-  
xxx the ((incomprehensible)) inside  
xxx I didn't (.) get rid of all the liquid, (.)  
xxx because the paper was a little bit like (.) this,  
xxx IS2: oh:  
xxx S7: [((incomprehensible))  
xxx IS2: [you feel like

xxx uh  
xxx you have some (.) liquid inside.  
xxx uh water inside this.  
xxx S7: little bit.  
xxx IS2: doesn't matter.  
xxx doesn't (matter).  
xxx S7: [not really?  
xxx IS2: [yeah.  
xxx as long as  
xxx you know=  
xxx S7: =like-  
xxx IS2: one hundred five percent dry.  
xxx even though you have fif-five percent-  
xxx a little bit  
xxx you know  
xxx water inside this, (.)  
xxx I think- uh  
xxx I-I did this reaction  
xxx so:  
xxx last semester.  
xxx even though it is not quite complete dry,  
xxx it doesn't matter.  
xxx S7: cause like  
xxx (they rid it of the) got rid of the (.) liquid and  
xxx (this) filter paper,  
xxx he was like pressing it and like,  
xxx IS2: I don't think so.  
xxx S7: ok.  
xxx so it's good?=  
xxx IS2: =yeah it's good.  
xxx yeah.  
xxx it's pretty good.  
xxx S7: (yeah) thank you.  
xxx IS2: yeah.  
**7:28**  
xxx ((no dialogue))  
**8:03**  
xxx S5: (I keep touching the) (product)  
xxx my hand keeps getting numb,  
xxx IS2: huh?  
xxx S5: my hand keeps getting numb↑ cause I keep touching it,  
xxx IS2: w-w-w-what thing do you touch?=  
xxx S5: =oh it's just the (.) the product.  
xxx IS2: why- just wear the gloves?  
xxx uh.  
xxx S5: I don't know-  
xxx I'm holding it-  
xxx no i-I-I-I'm not just (saying) on purpose.  
xxx it's like by accident. (.)

COM the lidocaine.  
COM IS2: oh you feel pa:in?  
COM S5: >no no no< I said it's lidocaine.  
xxx IS2: oh lidocaine.  
xxx S5: yeah.  
xxx IS2: lidocai- I don't think so.  
xxx it's the first-  
xxx S5: it's not lidocaine yet.  
xxx IS2: yeah yeah  
xxx S5: [it's just the reactor.  
xxx IS2: [((laughs)) it's just  
xxx in the (medium) right? ((laughs))  
xxx S5: wait no!  
xxx next week they just purify it right?  
xxx IS2: yeah after you finish the first two steps,  
xxx that is lidocaine.  
xxx but you say y-you touch the: (.) the mid-  
xxx S5: before reflux.  
xxx IS2: the-the white one right?  
xxx S5: [yeah before reflux.  
xxx IS2: [the white solid.  
xxx uh yeah yeah.  
xxx it's not lidocaine yeah°.  
xxx ((continues walking))  
**8:47**  
xxx ((no dialogue))  
**9:36**  
xxx S8: they're still wet (I don't)-  
xxx IS2: just get the dry (.) part.  
xxx S8: huh?  
xxx IS2: if (.) if it is dry↑ and that it is sticks-  
xxx stucks (.) on the (.) on the paper,  
xxx S8: uh huh?  
xxx IS2: don't use them.  
xxx S8: ok got you.  
xxx IS2: ((pause))  
xxx ok. ((pause))  
xxx ok.  
xxx can I ask you one question?  
xxx S8: yeah.=  
xxx IS2: =so  
xxx if you↑ (.)  
xxx so (.) h-h-how do you use English to describe this  
xxx reaction? (.2)  
xxx (yeah) this one. (.)  
xxx do you know what I mean?  
xxx so=  
xxx S8: [that's (.) speeding it up?  
xxx IS2: [if-if I

xxx (tight) it up?  
xxx S8: yeah.  
xxx IS2: just (tight) it up right?  
xxx S8: yeah.  
xxx IS2: [tight-  
xxx S8: [tighten it.  
xxx IS2: [tight,  
xxx S8: [tigh ten.  
xxx IS2: tighten it  
xxx S8: yes=  
xxx IS2: =(incomprehensible)  
xxx S8: tighten it  
xxx just make sure it's tightened  
xxx you know  
xxx it's-  
xxx IS2: ah  
xxx tighten is a verb.=  
xxx S8: =mhm!  
xxx IS2: r-right?=  
xxx S8: -yeah.  
xxx IS2: ok.  
xxx tighten it up.  
xxx thank you.  
xxx S8: no problem.  
xxx IS2: you are my: English teacher.  
xxx S8: ((laughs))  
xxx IS2: ((laughs))  
xxx ((continues walking))  
**10:39**  
xxx ((cheerfully)) hello!  
xxx how's everything go?  
xxx S9: I'm -((laughs))  
xxx IS2: how are you doing?  
xxx S9: I got a paper towel=  
xxx IS2: =w-why do (.)  
xxx you want (lets this) dry?  
xxx S9: yeah:  
xxx and then I [got the stuff.  
xxx IS2: [oh!  
xxx you got the stuff.  
xxx S9: yeah.  
xxx IS2: congratulations.  
xxx S9: ((chuckles)) thank you.  
xxx IS2: yeah.  
xxx did you get the stir bar and the: (.) hot plate from the  
xxx stock room?=  
xxx S9: =yeah  
xxx not yet.  
xxx go do-



xxx IS2: yeah just (.) do that,  
xxx S9: [((incomprehensible))  
xxx IS2: [and (.) just (.) a-after you f-  
xxx when you do the reflux.  
xxx get it out.  
xxx ok?  
xxx because right now  
xxx y-do you n- uh you need this right?  
xxx S9: yeah:=  
xxx IS2: =for here right?  
xxx S9: yeah.  
xxx ((pause))  
xxx IS2: did you have the: (.)  
xxx S9: the tweezer?  
xxx IS2: yeah  
xxx tweezer.  
xxx S9: I think it's too short.  
xxx ((pause))  
xxx (is it) reach?  
xxx it's too short.  
xxx ((pause))  
xxx ((laughs))  
xxx IS2: ((grunts))  
xxx S9: ((laughs))  
xxx IS2: ((chuckles))  
xxx .hhh ((exasperated sigh))  
xxx S9: ((laughs))  
xxx should I go get the thing?  
xxx IS2: yeah just (.) go to the s-=  
xxx S9: =wait where do I get (.) stirrer-  
xxx IS2: uh you need a hotplate and a stir bar.  
xxx [just tell them.  
xxx S9: [stir bar.  
xxx IS2: mhm.  
**xxx S9: thank you .**  
xxx IS2: yeah.  
xxx S9: ((walks away to stockroom))  
**11:51**  
xxx ((no dialogue))  
**12:06**  
xxx S10: ((walking to IS2))  
xxx ((inaudible))  
xxx IS2: huh?  
xxx here.  
xxx can you help me?  
xxx S10: yeah. (.3)  
xxx oh it's all the way at the bottom?  
xxx IS2: ((laughs))  
xxx it is very tight in the bottom.

xxx S10: (just use it like) chopsticks!  
xxx ((attempts to fix))  
xxx IS2: ((chuckles)) yeah.  
xxx S10: right?  
xxx IS2: do y-  
xxx yeah.  
xxx S10: ah no  
xxx they're too short. (.)  
xxx IS2: chopsticks.  
xxx S10: do you use chopsticks?  
xxx IS2: ((surprised)) yeah sure I'm Chinese!  
xxx [why?  
xxx S10: [oh yeah.  
xxx IS2: why not?  
xxx S10: of course. ((laughs))  
xxx IS2: ((laughs))  
xxx I should ask you: (.) this question.  
xxx S10: what happened?  
xxx IS2: I should ask you this question.  
xxx do you use chopsticks?=  
xxx S10: =yeah.  
xxx IS2: oh you use?=  
xxx S10: =only when I eat Chinese food.  
xxx when I eat Chinese food or Korean food I (.) use  
chopsticks.  
xxx IS2: [yeah:  
xxx S10: [((shrugs)) it's easy!  
xxx IS2: I think-  
xxx yeah it's easier.  
xxx but  
xxx yeah.  
xxx ((watches S10 as he attempts to fix apparatus))  
xxx oh  
xxx yeah.  
xxx you're done?  
xxx S10: almost.  
xxx (here) can you hold this?  
xxx IS2: yeah.  
xxx sure.  
xxx S10: ((keeps working))  
xxx S9: ((returns to her station))  
**13:11**  
xxx IS2: ((distressed)) oh!:  
xxx S10: oh shit.  
xxx IS2: almost-  
xxx S9: (that was such a dumbass move).  
xxx I don't even know wha-  
xxx like I don't even know what I was thinking  
xxx I just (grabbed it).

xxx IS2: ((laughs))  
xxx S9: ((laughs))  
xxx S10: ((still working))  
xxx IS2: ((incomprehensible))-  
xxx do you have a spatula?  
xxx S9: yeah.  
xxx IS2: oh  
xxx yeah you have a-  
xxx yeah.  
xxx spatula (.) will work.  
xxx S9: ((pause, hands S10 spatula))  
xxx S10: ((sticks spatula into tube))  
xxx IS2: oh good!  
xxx you got it.  
xxx S10: yeah.  
xxx IS2: I think you can- ((pause))  
xxx S10: ((continues to get substance out))  
xxx S9: ((chuckles)) (oh my god.) ((pause))  
xxx (maybe like) chopstick.  
xxx I was trying to use those things like chopsticks.  
xxx S10: we al- yeah we already tried that.  
xxx IS2: (((searches for something else to use))  
xxx S9: maybe my pen. (.)  
xxx the pen. (.2)  
**xxx the blue one .**  
xxx IS2: uh huh.=  
xxx S9: =you see it? (.)  
xxx yeah.  
xxx without the cap.  
xxx IS2: ((with pen)) [wanna try?  
xxx S9: [maybe my pen will work.  
xxx IS2: I think- (.)  
xxx I don't think it will.  
xxx ((bends back down))  
xxx ((strained groan)) we should have a larger spatula,  
xxx S9: ((incomprehensible))  
xxx S10: a little bit. ((hitting end of tube))  
xxx S9: I think it's- I think it's ((incomprehensible))  
xxx S10: no  
xxx I used this (to move it down). (.)  
xxx it'll take me some time but.  
xxx IS2: because he- she need this.  
xxx S10: oh: you need this?  
xxx S9: I mean-  
xxx S10: maybe if you soak it [in water,  
xxx IS2: [yeah you can just borrow from others.  
xxx S9: yeah.=  
xxx IS2: =so:  
xxx wait until the ((incomprehensible)) reflux (.)

xxx S9: yeah.:  
xxx IS2: do this.  
xxx S9: I don't need this anymore right?=  
xxx IS2: =yeah yeah yeah.  
xxx S9: I clean it up.  
xxx IS2: yeah.  
xxx (just) clean them.  
xxx (and uh-) (.)  
xxx S10: shi:t.°  
xxx S9: ((laughs))  
xxx ((inaudible))  
xxx S10: can I have the stick again? ((reaches for stick))  
xxx S9: I always like-

**15:00**

xxx IS2: ((pats S10 on the back))  
xxx this is for you? ((begins walking away))  
xxx S10: yeah. ((laughs))  
xxx I got (you).  
xxx IS2: ((turns head and laughs))  
xxx ((continues walking))

**15:16**

xxx ((approaches S11))  
xxx yeah just do this one.  
xxx S11: what?  
xxx IS2: that one.  
xxx S11: this one?  
xxx IS2: yeah. (.2)  
xxx uh:  
xxx don't use that one.  
xxx S11: ok.  
xxx [((incomprehensible))]  
xxx IS2: [i-is this from the stockroom?  
xxx no right?  
xxx S11: no no  
xxx I was just u- moving this out of the way.  
xxx that was down there.  
xxx IS2: oh you should go (.) to the stockroom=  
xxx S11: =I have one.  
xxx IS2: oh you have one?  
xxx S11: yeah.  
xxx IS2: ok.  
xxx ((incomprehensible))?=  
xxx S11: =no no  
xxx I was just-  
xxx IS2: and uh:  
xxx S11: I was just moving it out of the way.=  
xxx IS2: =this is a hot plate  
xxx and uh this is stir?  
xxx right?=  
xxx

xxx S11: =are you sure?  
xxx cause that one said heat on the side.  
xxx IS2: really? (.)  
xxx S11: turn it.  
xxx it says heat. (.)  
xxx IS2: is this heat? (.)  
xxx I think this is stir.  
xxx S5: ((walks over to IS2 and S11))  
xxx (what's up?)  
xxx IS2: is this stir? (.)  
xxx S11: it says heat here.=  
xxx S5: =it's heat.  
xxx IS2: it's heat?  
xxx S5: yeah.  
xxx ((inaudible))  
xxx IS2: oh that one?  
xxx S5: [that's the stir.  
xxx IS2: [oh yeah yeah yeah that's stir.  
xxx S5: that's the stirrer.  
xxx IS2: ((turns to another student))  
xxx ((incomprehensible speech))