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LabChemistry_IS2_20160413_Camera1_Seg05.pdf

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Participants: IS2 (male TA, walking around, black hair and glasses under goggles), S1 (male voice, not visible), S2 (male voice, not visible), S3 (male voice, not visible), S4 (female student, floral pants and ugg boots), S5 (male student, short brown hair and hood under lab coat), S6 (male student, black hair), S7 (male voice, not visible), S8 (female voice, not visible), S9 (male student, not visible), S10 (female voice, not visible), S11 (female voice, not visible), S12 (male voice, not visible), S13 (female UGTA, black clothes with chevron pattern), S14 (female student, long straight black hair), S15 (female student, long brown ponytail and purple gloves), S16 (female voice, not visible), S17 (male student, tall), S18 (female student, pearl earrings)

Context: IS2 is assisting students during a lab session.

0:08

xxx (no dialogue)

0:08

xxx IS2: so

xxx this is only the (transverse) step?

xxx S1: (what?)

xxx IS2: did you wash the: (.) flask with the water?

xxx S1 yeah I'm doing that now.

xxx IS2: ok yeah. (.)

xxx so after you wash the: (.) flask,

xxx transfer into the funnel,

xxx and then (.) use the:- (.)

xxx another

xxx uh six mil to wash the: (.) precipitate.

xxx ((moves onto another student))

0:29

xxx S2: excuse me.

xxx IS2: yeah=

xxx S2: =is it supposed to like blob up like like that?

xxx when I add on-

xxx the: (.) other amounts?

CLF IS2: (.1) so:

CLF oh-w-w-what's the problem?

CLF [sorry.

xxx S2: [so:

xxx like

xxx obviously this is [kinda (.) congealed

xxx IS2: [uh you have to-

xxx S2: so I have to put this in there?

xxx IS2: oh:= (.)

xxx S2: =or:=

xxx IS2: =no.

xxx so (.)
xxx you add the water inside already right?
xxx S2: n:ot yet.
xxx IS2: no you should add water (.)
xxx before you do the filtration.
xxx S2: oh you mean like
xxx the original 16 mil?
xxx IS2: yeah.
xxx S2: yeah I did.=
xxx IS2: =you add already?
xxx S2: yeah.
xxx IS2: but still h-here
xxx it's dry right?
xxx S2: yeah.=
xxx IS2: =uh you can add another in your twenty or th-thirty mil
xxx water.
xxx S2: ok.=
xxx IS2: =but make sure it is dilute.
xxx because (.) in this way-
xxx s-so from here, (.)
xxx it's kind of h-
xxx you know
xxx hard to transfer all of them.=
xxx S2: =yeah.=
xxx IS2: =you need to transfer the: (.) solution
xxx the-
xxx the solid.
xxx S2: ok.=
xxx IS2: =so:
xxx just add extra
xxx you know
xxx sixty- uh not sixty-
xxx uh thirty.
xxx so:
xxx yeah.
xxx and transfer them.
xxx S2: alright.
xxx thanks.
xxx IS2: ((pause, continues walking))
1:37
xxx IS2: so:
xxx you can use a spatula[↑] to scratch (.) the inside.
xxx S3: yeah.
xxx IS2: ((continues walking))
1:43
xxx ((no dialogue; inaudible/incomprehensible exchanges))
2:41
xxx IS2: so far so good?=
xxx S4: =um,

xxx yeah.
xxx like- ((walks over to station and points))
xxx it doesn't wanna- (.)
xxx like
xxx should I take (out the solid and (.) put them in?)
xxx ((incomprehensible))-
xxx IS2: uh:
xxx (it's lot here.)
xxx it's a lot right?
xxx S4: yeah.
xxx IS2: (oh) you think it is (.) almost full?
xxx S4: yeah.
xxx it's almost full.
xxx IS2: (.) yeah you can have.
xxx if it is too much.
3:00
xxx S4: yeah .
xxx [so (then) I'll just transfer it
xxx IS2: [but (.) uh
xxx S4: [((incomprehensible))
xxx IS2: [just- but-
xxx if you transfer them-
xxx before you transfer them,
xxx you need to press them.
xxx let it dry.
xxx [because-
xxx S4: [ok.
xxx IS2: because after you transfer them,
xxx bu:t y-you still need to (.) dry them right?
xxx S4: yeah.
xxx IS2: so if you want to
xxx uh
xxx transfer: (.) for two (parts) right?
xxx and you need to dry them↓ first,
xxx S4: [mhm.
xxx IS2: [so
xxx how to dry?
xxx just use uh:-
xxx just put a one uh: filter paper on top,=
xxx S4: mhm.
xxx [and press it down.
xxx IS2: [and use a (.) transfer
xxx use a beaker,
xxx S4: [yeah.
xxx IS2: [and
xxx so o- uh
xxx once it is completely dry,
xxx and uh it is just like
xxx you know

xxx a-a-a sand,
xxx S4: [yeah.
xxx IS2: [so:
xxx you can transfer ((incomprehensible)) and (.) do the next-
xxx uh-
xxx S4: [ok ok.
xxx IS2: [finish ((incomprehensible)) (.)
xxx but I think (.)
xxx yeah you can- I mean=
xxx S4: =yeah:
xxx it's-it's wet.
xxx see?
xxx IS2: yeah it's still very wet.
xxx S4: yeah:
xxx uh:-
xxx IS2: bu:t uh:
xxx yeah you can transfer: for two (parts).
xxx but
xxx I think it-
xxx so:
xxx for one part it's:-it's good.
xxx S4: ok.
xxx ((incomprehensible))-
xxx IS2: uh w-when you- when you press the (.)
xxx no.
xxx just do here.
xxx S4: ok.
xxx IS2: let-let the vacuum on
xxx w-when you press-
xxx you will use the beaker to press the solid,
xxx let the vacuum on,
xxx S4: (uh huh).
xxx [yeah.
xxx IS2: [do you know what I mean?
xxx S4: yeah?
xxx IS2: oh
xxx so: (.)
xxx uh: (.) th-this the vacuum already right?
xxx S4: ((nods)) yeah.
xxx IS2: so:
xxx if you want th-the vacuum off,
xxx so: normally
xxx just don't let it off-
xxx let it (.) [off.
xxx S4: [yeah.
xxx [uh huh.
xxx IS2: [so just let it ((inaudible))
xxx S4: ((nods)) yeah.=
xxx IS2: =before you (.) clean-

xxx uh:
xxx turn off (.) [here.
xxx S4: [uh huh.
xxx IS2: so:
xxx yeah.
xxx S4: ((nods)) got it.
xxx IS2: ya::
xxx yeah so:
xxx just- uh so right now,
xxx you need to press them,
xxx and let the vacuum on,
xxx and then use a beaker to press them.
xxx so as long as it is (.) uh dry,
xxx y-you can finish this one.=
xxx S4: =ok.
xxx IS2: [yeah.
xxx S4: [alright.
xxx got you.
xxx thank you.
xxx IS2: mhm.
xxx ((walks to student at adjacent station))
xxx ((looks at station))
xxx oh you still have a lot right?
xxx S5: ((nods))
xxx I don't-
xxx am I getting enough suction here?
xxx because this is going uh very (.1) slowly.
xxx IS2: (.) oh it's-
xxx ((pause, turns knob all the way counterclockwise))
xxx ((reaches into station))
xxx see?
xxx S5: ((nods)) alright I see.
xxx thank you.
xxx IS2: just press them.
xxx let it complete on.
xxx ((keeps walking))
5:09
xxx ((no dialogue))
5:42
xxx did you wash them?
xxx S6: yeah I washed it once.
xxx IS2: ((incomprehensible)) for once?
xxx S6: yeah.=
xxx IS2: =but still have a lot right?
xxx S6: yeah.
xxx IS2: so:
xxx you can use a spatula.
xxx S6: yeah.=
xxx IS2: =use a larger one.

xxx don't use smaller one. (.)
xxx S6: ((reaches down to grab spatula and back up))
xxx IS2: yeah.
xxx that one.
xxx so: (.)
6:00
xxx just try your best to get-get as much as possible out.
xxx S6: ((nods))
xxx IS2: and uh
xxx if you (.) cannot get them,
xxx just- (.) I think this is enough.
xxx yeah.
xxx [but-
xxx S6: [(I need to maximize the yield).
xxx IS2: yeah yeah
xxx but-
xxx S6: ((laughs))
xxx IS2: because we need to maximize your yield,
xxx y-your- we need to
xxx you know (.)
xxx S6: ((scratching bottom of flask with spatula))
xxx IS2: to (.) grade them based on your yield,
xxx S6: ((looks up and nods at IS2)) mhm.=
xxx IS2: =so yeah.
xxx S6: ((continues scratching))
xxx IS2: (.2) yeah doesn't matter
xxx so,
xxx so theoretically,
xxx so the book say we only use sixty mil water
xxx you can use as much as possible
xxx just wash it out.
xxx just w- transfer all of them (.)
xxx do you know what I mean?
xxx S6: yeah.
xxx IS2: yeah.
xxx just w-wash them,
xxx and uh:
xxx use the s- use the spatula to scratch them.
xxx S6: ((nods))
xxx IS2: and transfer them
xxx you know
xxx the-the solution (.) in the funnel.
xxx S6: ((nods))
xxx IS2: ((continues walking))
6:40
xxx ((no dialogue))
7:03
xxx just let it complete on,
xxx S7: oh ok.

xxx IS2: it should be very fast,
xxx S7: alright.=
xxx IS2: =and press the funnel.
xxx because it just let it go-
xxx S7: you mean right now?
xxx press-
xxx you mean right now?-
xxx IS2: no.
xxx use your hand↑ to press here.
xxx S7: oh: ok.
xxx IS2: so the water will come fast.
xxx S7: yeah.
xxx IS2: ((pause, continues walking))
7:29
xxx just (.) press them.
xxx yeah.
xxx (it) just the water.
xxx just like (.) it's lot like the water right? ((chuckles))
xxx ((incomprehensible)) (.3)
xxx S8: (is this ok?)
xxx IS2: yeah [it's ok.
xxx S8: [((incomprehensible))
xxx (when I'm done can I wash this) ((incomprehensible))=
xxx IS2: =yeah sure sure sure
xxx just use as much as water to wash them.
xxx because if it is solid, cannot try (.)
xxx transfer them right?
xxx completely.
xxx S8: mhm.
xxx IS2: yeah:
xxx just with water,
7:53
xxx ((no dialogue))
8:12
xxx IS2: yeah?
xxx S9: ((inaudible)) product, or just water?
xxx IS2: no just water.
xxx so if y- if it is product,
xxx you can (dissolve) them just like the solid.
xxx (it's a lot) like this one.=
xxx S9: =ok.=
xxx IS2: =yeah.
xxx because as- after you see-
xxx it is in a water just- (.)
xxx no (.) no- no- no- nothing right?
xxx S9: yeah.
xxx ok.
xxx IS2: yeah.
xxx S9: thank you.

xxx IS2: ((continues walking))

8:29

xxx ((no dialogue))

9:35

COM did you get a stir bar?

COM S10: excuse me?

xxx IS2: uh

xxx did you get a stir bar for the next step?

xxx I mean you finish the first part already [right?

xxx S10: [yeah.

xxx IS2: yeah.=

xxx S10: =I=

xxx IS2: when-

xxx so when you do the first st- next step

xxx S10: mhm?

xxx IS2: go to the stockroom,

xxx and get a (.) hot plate,

xxx S10: ok.

xxx IS2: and also stir bar.

xxx S10: a stir bar?

xxx ok.=

xxx IS2: =yeah.

xxx just put stir bar in-in a rbf,

xxx you know.

xxx S10: ok.

xxx I'll do that.

xxx thank you.

xxx IS2: (.1) oh by the way

xxx your (product) is extremely dry?

xxx yeah it's good?

xxx S10: yeah yeah.

xxx IS2: [yeah.

xxx S10: [it's-it was extremely dry I=

xxx IS2: =yes.

xxx good job.=

xxx S10: vacuumed it.

xxx IS2: ((continues walking))

10:03

xxx ((no dialogue))

10:27

xxx so uh:

xxx by the way

xxx do not use too much pre- uh:

xxx force.

xxx [just-

xxx S11: [yeah.

xxx IS2: [you will-

xxx S11: [((inaudible)) break the beaker ((laughs))

xxx IS2: yeah

xxx just broke the (.)
xxx S11: ok
xxx yeah
xxx IS2: the paper,
xxx and the uh
xxx S11: ((inaudible)) like ((pause))
xxx three minutes?
xxx IS2: did you press down for three minute already?
xxx S11: yeah.
xxx IS2: ok.
xxx two more minutes.
xxx ((continues walking))
10:49
xxx ((no dialogue))
11:05
xxx S12: I think it's been five minutes.
xxx IS2: you press them for five minutes? (.)
xxx oh it's good.
xxx yeah just-
xxx S12: I should get ((incomprehensible))
xxx IS2: yeah just get a large weighing paper,
xxx S12: (I can just go in and grab the) ((incomprehensible))=
xxx IS2: =I think-I think it's not the large one.
xxx yeah uh (.)
xxx let me check if I can ((incomprehensible)).
xxx IS2: ((pause, walks over to S13))
xxx do you have the: large weighing paper?
xxx S13: [no.
xxx IS2: [do we need to get some from stockroom?
xxx S13: the weighing paper?
xxx it's by the-
xxx IS2: just e-enough in a balance,
xxx S13: huh?
xxx IS2: just use the bala-uh:-
xxx th-th-the weighing paper inside the balance?=
xxx S13: =yeah! ((nods))
xxx IS2: ok.
xxx ((nods))
xxx [yeah
xxx S13: [I told him to use that↑ and then use paper towels around
xxx it.
xxx IS2: oh yeah yeah that's cool.
xxx yeah
xxx good.°
11:49
xxx ((no dialogue))
12:05
xxx much faster right?
xxx S14: ((inaudible))

xxx IS2: do you know why?
xxx S14: ((inaudible))
xxx IS2: just let the vacuum (.) completely on.
xxx S14: ((inaudible))
xxx IS2: your- here.
xxx so (.) before I came here (just let) this one.
xxx S14: ((incomprehensible))
xxx IS2: just let it-
xxx you know-
xxx S14: (is) move so slow before
xxx it's uh- I (.) open it (.)
xxx no I open large. ((chuckles))
xxx IS2: yeah
xxx if you up- open th-this large,
xxx S14: yeah.=
xxx IS2: =it should be much faster.
xxx S14: yeah
xxx IS2: [but you- you
xxx S14: [because- because it's so slow
xxx so I want to be ((incomprehensible)) faster=
xxx IS2: =>yeah yeah yeah<.
xxx when you-when you do the vacuum filtration↓ every time,
xxx just (.) let it complete on.
xxx S14: complete on?
xxx IS2: yeah.
xxx S14: oh ok.
xxx IS2: (.) so: uh:
xxx another thing is (.)
xxx uh after you finish- after you transfer all of them,
xxx you still have some-something in the- many in the: flask,
xxx just use the cold water wash them.
xxx [and uh
xxx S14: [so this is on now?
xxx IS2: yeah this is on now
xxx because (.) still you need to (.) press them.
xxx yeah.
xxx uh oh-
xxx you can use the water- cold water wash the rbf.
xxx uh not rbf.
xxx uh
xxx [flask.
xxx S14: [flask.
xxx IS2: uh huh.
xxx ((pause))
xxx ((steps over to adjacent station))
xxx ((turns knob))
xxx just let it completely on,
xxx and the-the-the vacuum (.) should be maximized.=
xxx S15: =m.=

xxx IS2: =the water will dry very you know.=
xxx S15: =mhm.=
xxx IS2: =fast.=
xxx S15: ((understanding)) =mm: .
xxx IS2: ((pause))
xxx uh huh.
xxx ((continues walking))
13:38
xxx ((no dialogue))
14:10
xxx did you weigh the: rbf?=
xxx S16: =yeah.
xxx IS2: ((pause, continues walking))
xxx dry?
xxx ((leans down and examines S16's experiment))
xxx S17: u:m
xxx it's a little wet.
xxx but I can dry it I think.
xxx IS2: yeah
xxx just use a
xxx you know-
xxx S17: spatula.
xxx IS2 (.3) yeah press them right.
xxx use a beaker,=
xxx S17: =mhm.=
xxx IS2: for ((pause))
xxx ok ((leans in closer))
xxx it- (.)
xxx where's the (.) weighing paper? (.1)
xxx inside right?
xxx [ok just-
xxx S17: [I don't-
xxx IS2: this is weighing paper
xxx don't let it
xxx you know
xxx ((incomprehensible)) into pieces.
xxx just mix them with the product.
xxx S17: ok.
xxx IS2: let it (.) completely
xxx you know
xxx (one part).
xxx S17: ok.
15:00
xxx IS2: hm:
xxx you can-
xxx so:
xxx if you want to completely dry
xxx you can use a-
xxx you know

xxx you can just put (.) two weighing pap-
xxx uh
xxx two weighing paper together and use the
xxx you know
xxx paper towel to (press) them.
xxx S17: ok.
xxx IS2: yeah.
xxx just
xxx the first thing you need- just get a weighing-
xxx uh filter paper out,
xxx S17: mhm.=
xxx IS2: just don't mix them together.
xxx ((continues walking))
xxx S18: ((raises hand))
xxx ?
xxx IS2: ((turns around))
xxx S18: ((incomprehensible))
xxx IS2: no
xxx it's not the product.
xxx S18: [oh?
xxx IS2: [it's just the water.
xxx S18: ((nods)) ok.
xxx IS2: yeah.
xxx S18: the bubbles?
xxx IS2: yeah yeah bubbles.
xxx just water.
xxx don't need to worry about that.
xxx and uh- uh-
xxx so:
xxx you can use spatulas to scratch them,=
xxx S18: ((nods)) =yeah.
xxx IS2: and uh:
xxx **put water↑ inside them,**
xxx S18: ((nods))
xxx IS2: and even though you finish the: (.) sixty,
xxx you can get more.
xxx S18: yeah [twenty five (.) fifty?
xxx IS2: [just get more.
xxx fifty yeah.
xxx as- get- just uh get as much possible.
xxx you don't need t- you know
xxx so:
xxx even though it is sixty
xxx you can use as- (.) more than sixty.
xxx S18: ok.
xxx this ((incomprehensible))=
xxx IS2: =just let it (.) let it
xxx uh you know
xxx completely (.)

xxx just (.) uh transfer all the solid (.) into the funnel.
xxx S18: ((nods)) ok.