SUPPLEMENTAL MATERIAL
Appendix. MIPS Ratio Formulas

**Patient Directedness**

Patient direction: A. Patient's biomedical questions, directions, checking, seeking, requesting/prefs

Physician direction: B. Physician's closed, leading, & multiple biomedical questions, directions, interrupts

A. Patient's biomedical questions, directions, checking, seeking, requesting/prefs – speaker=patient, with any of the following:
   - Content = drugs, med, omed, side effects, tests, and treatment
   - Mode = closed, checks info, seeks info, directs/advises, checks understanding, requests/prefs

B. Physician's closed biomedical questions, directions – speaker=doctor, with any of the following:
   - Content=drugs, med, omed, side effects, tests, and treatment
   - Mode=closed, leading, multiple, directs/advises, interrupts

\[(A + B)\] A. Patients biomedical and psychosocial questions, directions, checking, seeking, request/prefs

**Patient Centeredness**

A. Patient's biomedical & psychosocial questions, directions, checking, seeking, requesting/prefs - speaker=patient, with any of the following:
   - Content=biomed (drugs, med, omed, side effects, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   - Mode = closed, checks info, seeks info, directs/advises, checks understanding, requests/prefs

B. Physician's patient-centered biomedical and psychosocial questions and responses - speaker=doctor, with any of the following:
   - Content=biomed (drugs, med, omed, side effects, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   - Mode=open and focused-open questions, gives reassurance, checks info, checks understanding, summarizes, seeks information, orients, facilit. speech, positive resp., empathy, laughs pos., gratitude, apology

C. Physician's closed, leading, & multiple questions, false reassurance, negative response, interrupts, irritation, inapprop.behvr

A. Patient's biomedical & psychosocial questions, directions, checking, seeking, requesting/prefs - speaker=patient, with any of the following:
   - Content=biomed (drugs, med, omed, side effects, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   - Mode = closed, checks info, seeks info, directs/advises, checks understanding, requests/prefs

B. Physician's patient-centered biomedical and psychosocial questions and responses - speaker=doctor, with any of the following:
   - Content=biomed (drugs, med, omed, side effects, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   - Mode=open and focused-open questions, gives reassurance, checks info, checks understanding, summarizes, seeks information, orients, facilit. speech, positive resp., empathy, laughs positive, gratitude, apology

C. Physician's inappropriate biomedical and psychosocial questions and responses - speaker=doctor, with any of the following:
   - Content=biomed (drugs, med, omed, side effects, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   - Mode=closed, leading, multiple questions, false reassurance, neg. response, interrupts, irritation, inapprop. Behvr
(A + B) Physician-patient psychosocial exchange

Psychosocial Focus = (C + D) Physician-patient biomedical exchange

A. Psychosocial info from Physician - speaker=doctor, with any of the following:
   o Content=psy/med, psych, l.Style, soc/dem, soc/con
   o Mode= any mode
B. Psychosocial info from patient - speaker=patient, with any of the following:
   o Content= psy/med, psych, l.Style, soc/dem, soc/con
   o Mode=any mode
C. Biomedical info from Physician - speaker=doctor, with any of the following:
   o Content=drugs, med, omed, side effects, tests, and treatment
   o Mode= any mode
D. Biomedical info from patient - speaker=patient, with any of the following:
   o Content=drugs, med, omed, side effects, tests, and treatment
   o Mode=any mode

Information Exchange = A. All Physician information-giving utterances
B. All Patient information-giving utterances

A. Information given by the Physician - speaker=doctor, with any of the following:
   o Content=biomed (drugs, med, omed, side effets, tests, and treatment), +
     psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   o Mode= gives info
B. Information given by the Patient - speaker=doctor, with any of the following:
   o Content=biomed (drugs, med, omed, side effets, tests, and treatment), +
     psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   o Mode= gives info

Physician Disclosure = A. Physician psychosocial questions, empathy/reassurance, checking
Promoting Behaviors and summarizing information/understanding
B. Physician biomedical directing/advising, false reassurance, and
   leading questions

A. Psychosocial questions and responses from Physician - speaker=doctor, with any of
the following:
   o Content=psy/med, psych, l.Style, soc/dem, soc/con
   o Mode=open and focused-open questions, gives reassurance, empathy, checks
     info, checks understanding, summarizes information
B. Physician’s biomedical questions and directions –
   speaker=doctor, with any of the following:
Content=drugs, med, omed, side effects, tests, and treatment
Mode= leading questions, directs/advises, interrupts, false reassurance

Verbal = A. All Physician utterances
Dominance

B. All Patient utterances

A. Physician info, questions, responses- speaker=doctor, with any of the following:
   o Content=biomed (drugs, med, omed, side effets, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   o Mode= all

B. Patient info, questions, responses- speaker=doctor, with any of the following:
   o Content=biomed (drugs, med, omed, side effets, tests, and treatment), + psychosocial (psy/med, psych, l.Style, soc/dem, soc/con)
   o Mode= all