if (Treatment([diet, oral_antidiabetic], status = PRESCRIBED) and (patient.HbA1c <= 6.5) and
    (not Treatment([diet, metformin], status = CURRENT_OR_PAST, failed = True)) and
    (not Treatment([diet, agi], status = CURRENT_OR_PAST, failed = True)) and
    (not Treatment([diet, metformin], status = PRESCRIBED)) and
    (not Treatment([diet, agi], status = PRESCRIBED))):
    criticism("Sulfonamides, glinides and glitazones are not recommended at this stage of the disease.
    Guideline recommends metformin as first-line treatment.
    (Traitement médicamenteux du diabète de type 2")

if (Treatment([diet, oral_antidiabetic], status = PRESCRIBED) and (patient.A1C <= 6.5) and
    (Treatment([diet, metformin], status = CURRENT_OR_PAST, failed = True) or
     Treatment([diet, agi], status = CURRENT_OR_PAST, failed = True)) and
    (not Treatment([diet, metformin], status = PRESCRIBED)) and
    (not Treatment([diet, agi], status = PRESCRIBED))):
    criticism("Sulfonamides, glinides and glitazones are not recommended at this stage of the disease.
    Guideline recommends metformin as first-line treatment, and AGI as second-line.
    (Traitement médicamenteux du diabète de type 2")

if (Treatment([diet, oral_antidiabetic], status = PRESCRIBED) and (patient.A1C <= 6.5) and
    (not Treatment([diet, metformin], status = CURRENT_OR_PAST, failed = True)) and
    (not Treatment([diet, agi], status = CURRENT_OR_PAST, failed = True)) and
    (not Treatment([diet, metformin], status = PRESCRIBED)) and
    (Treatment([diet, agi], status = PRESCRIBED))):
    criticism("AGI should be prescribed only as second-line treatment.
    Guideline recommends metformin as first-line treatment
    (Traitement médicamenteux du diabète de type 2")

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