

DAA Formulations for Swallowing Difficulties

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Information on crushing DAAs is very limited. Consider suitability for patients on a case-by-case basis.

| DAAs | Manufacturer Recommendations | PK Data / Case Reports | Alternative Formulations |
|--------------|----------------------------------|-----------------------------------|--------------------------|
| Elbasvir/ | The product label states cutting | There are two case reports of | |
| Grazoprevir] | or crushing tablets is not | patients receiving crushed | |
| , , | recommended. | ELB/GZR via a PEG tube and | |
| Zepatier® | | achieving SVR12. | |
| | | [Yap et al., 2018], [Shah et al., | |
| | | 2021]. | |
| | | A Phase I trial demonstrated | |
| | | pharmacokinetic equivalence | |
| | | between whole tablets and | |
| | | crushed and suspended tablets. | |
| | | [Pijnenburg et al., 2020]. | |
| Glecaprevir/ | The product label states swallow | Cutting G/P in half had minimal | Granules in sachet |
| Pibrentasvir | tablets whole and do not chew, | impact on exposure, while | Sprinkle on soft food |
| | crush, or break the tablets. | crushing decreased exposure for | that can be swallowed |
| Maviret®, | | GLE (27-61%) and increased | without chewing. |
| Mavyret® | | exposure for PIB (21-83%). | Must not be |
| | | [Oberoi et al., 2018]. | administered via |
| | | There are 3 case reports of | enteral feeding tubes. |
| | | patients with HCV GT1 achieving | |
| | | SVR12 after receiving crushed | |
| | | G/P via PEG tubes for 8-12 | |
| | | weeks. G/P was well tolerated. | |
| | | [Tanaka et al., 2019], [Whelchel | |
| | | <u>et al., 2021]</u> . | |
| | | In a retrospective, case-control | |
| | | study, 8 post-transplant patients | |
| | | received crushed G/P and | |
| | | achieved SVR 12. Median | |
| | | duration of crushed G/P was 6 | |
| | | days and all patients were | |
| | | treated for 8 weeks. | |
| | | [Waldman et al., 2020]. | |



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| DAAs | Manufacturer | PK Data / Case Reports | Alternative Formulations |
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| | Recommendations | | |
| Ledipasvir/ Sofosbuvir | The product label recommends that, due to the bitter taste, the tablets are not chewed or | There are six case reports where patients received crushed (n=5) or split (n=1) | Granules in sachet Can be mixed with non-acidic soft food or taken |
| Harvoni® | crushed. LED/SOF can be disintegrated in water, juice, or milk. The stability of LED/SOF in these liquids is not known and there are no PK data for crushed LED/SOF. Tablets may split, but similarly there are currently no PK data for splitting. Additionally, a split LED/SOF tablet may have an unpleasant taste. | LED/SOF with 4 achieving SVR12 and 2 LTFU (both undetectable at EOT). [Huffaman et al., 2021], [Jindracek et al., 2018], [Fulco et al., 2017], [Whelchel et al., 2021]. | directly into the mouth and swallowed with or without water. Swallow without chewing to avoid bitter taste. |
| Sofosbuvir Sovaldi® | The product label recommends that, due to the bitter taste, the tablets should not be chewed or crushed. SOF can be disintegrated in water, juice, or milk. The stability of SOF in these liquids is not known and there are no PK data for crushed SOF. Tablets may split, but similarly there are currently no PK data for splitting. Additionally, a split SOF tablet may have an unpleasant taste. [Personal communication from | | Can be mixed with non-acidic soft food or taken directly into the mouth and swallowed with or without water. Swallow without chewing to avoid bitter taste. |



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|--|--|--|--|
| | | | Formulations |
| Sofosbuvir/ Velpatasvir Epclusa® | The product label recommends that, due to the bitter taste, it is recommended that the tablets are not chewed or crushed. SOF/VEL can be disintegrated in water, juice, or milk. The stability of SOF/VEL in these liquids is not known and there are no PK data for crushed SOF/VEL. Tablets may split, but similarly there are currently no PK data for splitting. Additionally, a split SOF/VEL tablet may have an unpleasant taste. [Personal Communication from Gilead]. | In a clinical trial, participants who could not swallow medication were given crushed SOF/VEL dissipated in saline and administered via nasogastric, orogastric, or PEG tube. All participants achieved SVR12. [Woolley et al.]. There are various case reports/series describing outcomes in 29 patients (with HCV GTs 1/2/3/4 with or without cirrhosis) who received crushed (n=27) or split (n=2) SOF/VEL (± RBV) either orally or via PEG tubes. No severe AEs were reported. Twenty-six out of twenty-seven achieved SVR 12, while two patients had no outcome reported. [Lalanne et al., 2020], [Van Seyen et al., 2020], [Villaescusa et al., 2020], [Mogul et al., 2020], [Whelchel et al, 2021], [Joshi et al., 2021]. | Granules in sachet Can be mixed with non-acidic soft food or taken directly into the mouth and swallowed with or without water. Swallow without chewing to avoid bitter taste. |
| Sofosbuvir/ Velpatasvir/ Voxilaprevir Vosevi® | The product label recommends that, due to the bitter taste, the tablets are not chewed or crushed. SOF/VEL/VOX can be disintegrated in water, juice, or milk. The stability of SOF/VEL/VOX in these liquids is not known and there are no PK data for crushed | | |
| Ribavirin | SOF/VEL/VOX. Tablets may split, but similarly there are currently no PK data for splitting. Additionally, a split SOF/VEL/VOX tablet may have an unpleasant taste. [Personal communication from Gilead]. Due to the teratogenic potential of | | Oral solution may |
| tablets / capsules | ribavirin, the tablets should not be broken or crushed and capsules should not be open, broken or crushed. | | be available. |